

# Regression Discontinuity Designs in Economics

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*This paper provides an introduction and “user guide” to Regression Discontinuity (RD) designs for empirical researchers. It presents the basic theory behind the research design, details when RD is likely to be valid or invalid given economic incentives, explains why it is considered a “quasi-experimental” design, and summarizes different ways (with their advantages and disadvantages) of estimating RD designs and the limitations of interpreting these estimates. Concepts are discussed using examples drawn from the growing body of empirical research using RD. (JEL C21, C31)*

## 1. Introduction

Regression Discontinuity (RD) designs were first introduced by Donald L. Thistlethwaite and Donald T. Campbell (1960) as a way of estimating treatment effects in a nonexperimental setting where treatment is determined by whether an observed “assignment” variable (also referred to in the literature as the “forcing” variable or the “running” variable) exceeds a known cutoff point. In their initial application of RD designs, Thistlethwaite and Campbell

(1960) analyzed the impact of merit awards on future academic outcomes, using the fact that the allocation of these awards was based on an observed test score. The main idea behind the research design was that individuals with scores just below the cutoff (who did not receive the award) were good comparisons to those just above the cutoff (who did receive the award). Although this evaluation strategy has been around for almost fifty years, it did not attract much attention in economics until relatively recently.

Since the late 1990s, a growing number of studies have relied on RD designs to estimate program effects in a wide variety of economic contexts. Like Thistlethwaite and Campbell (1960), early studies by Wilbert van der Klaauw (2002) and Joshua D. Angrist and Victor Lavy (1999) exploited threshold rules often used by educational institutions to estimate the effect of financial aid and class size, respectively, on educational outcomes. Sandra E. Black (1999) exploited the presence of discontinuities at the geographical level (school district

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boundaries) to estimate the willingness to pay for good schools. Following these early papers in the area of education, the past five years have seen a rapidly growing literature using RD designs to examine a range of questions. Examples include the labor supply effect of welfare, unemployment insurance, and disability programs; the effects of Medicaid on health outcomes; the effect of remedial education programs on educational achievement; the empirical relevance of median voter models; and the effects of unionization on wages and employment.

One important impetus behind this recent flurry of research is a recognition, formalized by Jinyong Hahn, Petra Todd, and van der Klaauw (2001), that RD designs require seemingly mild assumptions compared to those needed for other nonexperimental approaches. Another reason for the recent wave of research is the belief that the RD design is not “just another” evaluation strategy, and that causal inferences from RD designs are potentially more credible than those from typical “natural experiment” strategies (e.g., difference-in-differences or instrumental variables), which have been heavily employed in applied research in recent decades. This notion has a theoretical justification: David S. Lee (2008) formally shows that one need not *assume* the RD design isolates treatment variation that is “as good as randomized”; instead, such randomized variation is a *consequence* of agents’ inability to precisely control the assignment variable near the known cutoff.

So while the RD approach was initially thought to be “just another” program evaluation method with relatively little general applicability outside of a few specific problems, recent work in economics has shown quite the opposite.<sup>1</sup> In addition to providing

a highly credible and transparent way of estimating program effects, RD designs can be used in a wide variety of contexts covering a large number of important economic questions. These two facts likely explain why the RD approach is rapidly becoming a major element in the toolkit of empirical economists.

Despite the growing importance of RD designs in economics, there is no single comprehensive summary of what is understood about RD designs—when they succeed, when they fail, and their strengths and weaknesses.<sup>2</sup> Furthermore, the “nuts and bolts” of implementing RD designs in practice are not (yet) covered in standard econometrics texts, making it difficult for researchers interested in applying the approach to do so. Broadly speaking, the main goal of this paper is to fill these gaps by providing an up-to-date overview of RD designs in economics and creating a guide for researchers interested in applying the method.

A reading of the most recent research reveals a certain body of “folk wisdom” regarding the applicability, interpretation, and recommendations of practically implementing RD designs. This article represents our attempt at summarizing what we believe to be the most important pieces of this wisdom, while also dispelling misconceptions that could potentially (and understandably) arise for those new to the RD approach.

We will now briefly summarize the most important points about RD designs to set the stage for the rest of the paper where we systematically discuss identification, interpretation, and estimation issues. Here, and throughout the paper, we refer to the assignment variable as  $X$ . Treatment is, thus,

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the RD design in economics is unique as it is still rarely used in other disciplines.

<sup>1</sup> See Thomas D. Cook (2008) for an interesting history of the RD design in education research, psychology, statistics, and economics. Cook argues the resurgence of

<sup>2</sup> See, however, two recent overview papers by van der Klaauw (2008b) and Guido W. Imbens and Thomas Lemieux (2008) that have begun bridging this gap.

assigned to individuals (or “units”) with a value of  $X$  greater than or equal to a cutoff value  $c$ .

- **RD designs can be invalid if individuals can precisely manipulate the “assignment variable.”**

When there is a payoff or benefit to receiving a treatment, it is natural for an economist to consider how an individual may behave to obtain such benefits. For example, if students could effectively “choose” their test score  $X$  through effort, those who chose a score  $c$  (and hence received the merit award) could be somewhat different from those who chose scores just below  $c$ . The important lesson here is that the existence of a treatment being a discontinuous function of an assignment variable is *not* sufficient to justify the validity of an RD design. Indeed, if anything, discontinuous rules may generate incentives, causing behavior that would *invalidate* the RD approach.

- **If individuals—even while having some influence—are unable to *precisely* manipulate the assignment variable, a consequence of this is that the variation in treatment near the threshold is randomized as though from a randomized experiment.**

This is a crucial feature of the RD design, since it is the reason RD designs are often so compelling. Intuitively, when individuals have imprecise control over the assignment variable, even if some are especially likely to have values of  $X$  near the cutoff, *every* individual will have approximately the same probability of having an  $X$  that is just above (receiving the treatment) or just below (being denied the treatment) the cutoff—similar to a coin-flip experiment. This result clearly differentiates the RD and

instrumental variables (IV) approaches. When using IV for causal inference, one must *assume* the instrument is exogenously generated as if by a coin-flip. Such an assumption is often difficult to justify (except when an actual lottery was run, as in Angrist (1990), or if there were some biological process, e.g., gender determination of a baby, mimicking a coin-flip). By contrast, the variation that RD designs isolate is randomized *as a consequence* of the assumption that individuals have imprecise control over the assignment variable.

- **RD designs can be analyzed—and tested—like randomized experiments.**

This is the key implication of the local randomization result. If variation in the treatment near the threshold is approximately randomized, then it follows that all “baseline characteristics”—all those variables determined prior to the realization of the assignment variable—should have the same distribution just above and just below the cutoff. If there is a discontinuity in these baseline covariates, then at a minimum, the underlying identifying assumption of individuals’ inability to precisely manipulate the assignment variable is unwarranted. Thus, the baseline covariates are used to *test* the validity of the RD design. By contrast, when employing an IV or a matching/regression-control strategy, assumptions typically need to be made about the relationship of these other covariates to the treatment and outcome variables.<sup>3</sup>

- **Graphical presentation of an RD design is helpful and informative, but the visual presentation should not be**

<sup>3</sup> Typically, one assumes that, *conditional on the covariates*, the treatment (or instrument) is essentially “as good as” randomly assigned.

**tilted toward either finding an effect or finding no effect.**

It has become standard to summarize RD analyses with a simple graph showing the relationship between the outcome and assignment variables. This has several advantages. The presentation of the “raw data” enhances the transparency of the research design. A graph can also give the reader a sense of whether the “jump” in the outcome variable at the cutoff is unusually large compared to the bumps in the regression curve away from the cutoff. Also, a graphical analysis can help identify why different functional forms give different answers, and can help identify outliers, which can be a problem in any empirical analysis. The problem with graphical presentations, however, is that there is some room for the researcher to construct graphs making it seem as though there are effects when there are none, or hiding effects that truly exist. We suggest later in the paper a number of methods to minimize such biases in presentation.

- **Nonparametric estimation does not represent a “solution” to functional form issues raised by RD designs. It is therefore helpful to view it as a complement to—rather than a substitute for—parametric estimation.**

When the analyst chooses a parametric functional form (say, a low-order polynomial) that is incorrect, the resulting estimator will, in general, be biased. When the analyst uses a nonparametric procedure such as local linear regression—essentially running a regression using only data points “close” to the cutoff—there will also be bias.<sup>4</sup> With a finite sample, it is impossible to know

which case has a smaller bias without knowing something about the true function. There will be some functions where a low-order polynomial is a very good approximation and produces little or no bias, and therefore it is efficient to use all data points—both “close to” and “far away” from the threshold. In other situations, a polynomial may be a bad approximation, and smaller biases will occur with a local linear regression. In practice, parametric and nonparametric approaches lead to the computation of the exact same statistic.<sup>5</sup> For example, the procedure of regressing the outcome  $Y$  on  $X$  and a treatment dummy  $D$  can be viewed as a parametric regression (as discussed above), or as a local linear regression with a very large bandwidth. Similarly, if one wanted to exclude the influence of data points in the tails of the  $X$  distribution, one could call the exact same procedure “parametric” after trimming the tails, or “nonparametric” by viewing the restriction in the range of  $X$  as a result of using a smaller bandwidth.<sup>6</sup> Our main suggestion in estimation is to not rely on one particular method or specification. In any empirical analysis, results that are stable across alternative

<sup>5</sup> See section 1.2 of James L. Powell (1994), where it is argued that is more helpful to view *models* rather than particular statistics as “parametric” or “nonparametric.” It is shown there how the same least squares estimator can simultaneously be viewed as a solution to parametric, semi-parametric, and nonparametric problems.

<sup>6</sup> The main difference, then, between a parametric and nonparametric approach is not in the actual estimation but rather in the discussion of the asymptotic behavior of the estimator as sample sizes tend to infinity. For example, standard nonparametric asymptotics considers what would happen if the bandwidth  $h$ —the width of the “window” of observations used for the regression—were allowed to shrink as the number of observations  $N$  tended to infinity. It turns out that if  $h \rightarrow 0$  and  $Nh \rightarrow \infty$  as  $N \rightarrow \infty$ , the bias will tend to zero. By contrast, with a parametric approach, when one is not allowed to make the model more flexible with more data points, the bias would generally remain—even with infinite samples.

<sup>4</sup> Unless the underlying function is exactly linear in the area being examined.

and equally plausible specifications are generally viewed as more reliable than those that are sensitive to minor changes in specification. RD is no exception in this regard.

- **Goodness-of-fit and other statistical tests can help rule out overly restrictive specifications.**

Often the consequence of trying many different specifications is that it may result in a wide range of estimates. Although there is no simple formula that works in all situations and contexts for weeding out inappropriate specifications, it seems reasonable, at a minimum, not to rely on an estimate resulting from a specification that can be rejected by the data when tested against a strictly more flexible specification. For example, it seems wise to place less confidence in results from a low-order polynomial model when it is rejected in favor of a less restrictive model (e.g., separate means for each discrete value of  $X$ ). Similarly, there seems little reason to prefer a specification that uses all the data if using the same specification, but restricting to observations closer to the threshold, gives a substantially (and statistically) different answer.

Although we (and the applied literature) sometimes refer to the RD “method” or “approach,” the RD design should perhaps be viewed as more of a *description* of a particular data generating process. All other things (topic, question, and population of interest) equal, we as researchers might prefer data from a randomized experiment or from an RD design. But in reality, like the randomized experiment—which is also more appropriately viewed as a particular data generating process rather than a “method” of analysis—an RD design will simply not exist to answer a great number of questions. That

said, as we show below, there has been an explosion of discoveries of RD designs that cover a wide range of interesting economic topics and questions.

The rest of the paper is organized as follows. In section 2, we discuss the origins of the RD design and show how it has recently been formalized in economics using the potential outcome framework. We also introduce an important theme that we stress throughout the paper, namely that RD designs are particularly compelling because they are close cousins of randomized experiments. This theme is more formally explored in section 3 where we discuss the conditions under which RD designs are “as good as a randomized experiment,” how RD estimates should be interpreted, and how they compare with other commonly used approaches in the program evaluation literature. Section 4 goes through the main “nuts and bolts” involved in implementing RD designs and provides a “guide to practice” for researchers interested in using the design. A summary “checklist” highlighting our key recommendations is provided at the end of this section. Implementation issues in several specific situations (discrete assignment variable, panel data, etc.) are covered in section 5. Based on a survey of the recent literature, section 6 shows that RD designs have turned out to be much more broadly applicable in economics than was originally thought. We conclude in section 7 by discussing recent progress and future prospects in using and interpreting RD designs in economics.

## 2. *Origins and Background*

In this section, we set the stage for the rest of the paper by discussing the origins and the basic structure of the RD design, beginning with the classic work of Thistlethwaite and Campbell (1960) and moving to the recent interpretation of the design using modern tools of program evaluation in economics (potential outcomes framework). One of



the main virtues of the RD approach is that it can be naturally presented using simple graphs, which greatly enhances its credibility and transparency. In light of this, the majority of concepts introduced in this section are represented in graphical terms to help capture the intuition behind the RD design.

### 2.1 Origins

The RD design was first introduced by Thistlethwaite and Campbell (1960) in their study of the impact of merit awards on the future academic outcomes (career aspirations, enrollment in postgraduate programs, etc.) of students. Their study exploited the fact that these awards were allocated on the basis of an observed test score. Students with test scores  $X$ , greater than or equal to a cut-off value  $c$ , received the award, while those with scores below the cutoff were denied the award. This generated a sharp discontinuity in the “treatment” (receiving the award) as a function of the test score. Let the receipt of treatment be denoted by the dummy variable  $D \in \{0, 1\}$ , so that we have  $D = 1$  if  $X \geq c$  and  $D = 0$  if  $X < c$ .

At the same time, there appears to be no reason, other than the merit award, for future academic outcomes,  $Y$ , to be a discontinuous function of the test score. This simple reasoning suggests attributing the discontinuous jump in  $Y$  at  $c$  to the causal effect of the merit award. Assuming that the relationship between  $Y$  and  $X$  is otherwise linear, a simple way of estimating the treatment effect  $\tau$  is by fitting the linear regression

$$(1) \quad Y = \alpha + D\tau + X\beta + \varepsilon,$$

where  $\varepsilon$  is the usual error term that can be viewed as a purely random error generating variation in the value of  $Y$  around the regression line  $\alpha + D\tau + X\beta$ . This case is depicted in figure 1, which shows both the true underlying function and numerous realizations of  $\varepsilon$ .

Thistlethwaite and Campbell (1960) provide some graphical intuition for why the coefficient  $\tau$  could be viewed as an estimate of the causal effect of the award. We illustrate their basic argument in figure 1. Consider an individual whose score  $X$  is exactly  $c$ . To get the causal effect for a person scoring  $c$ , we need guesses for what her  $Y$  would be with and without receiving the treatment.

If it is “reasonable” to assume that all factors (other than the award) are evolving “smoothly” with respect to  $X$ , then  $B'$  would be a reasonable guess for the value of  $Y$  of an individual scoring  $c$  (and hence receiving the treatment). Similarly,  $A''$  would be a reasonable guess for that same individual in the counterfactual state of not having received the treatment. It follows that  $B' - A''$  would be the causal estimate. This illustrates the intuition that the RD estimates should use observations “close” to the cutoff (e.g., in this case at points  $c'$  and  $c''$ ).

There is, however, a limitation to the intuition that “the closer to  $c$  you examine, the better.” In practice, one *cannot* “only” use data close to the cutoff. The narrower the area that is examined, the less data there are. In this example, examining data any closer than  $c'$  and  $c''$  will yield no observations at all! Thus, in order to produce a reasonable guess for the treated and untreated states at  $X = c$  with finite data, one has no choice but to use data *away* from the discontinuity.<sup>7</sup> Indeed, if the underlying function is truly linear, we know that the best linear unbiased estimator of  $\tau$  is the coefficient on  $D$  from OLS estimation (using all of the observations) of equation (1).

This simple heuristic presentation illustrates two important features of the RD

<sup>7</sup> Interestingly, the very first application of the RD design by Thistlethwaite and Campbell (1960) was based on discrete data (interval data for test scores). As a result, their paper clearly points out that the RD design is fundamentally based on an extrapolation approach.

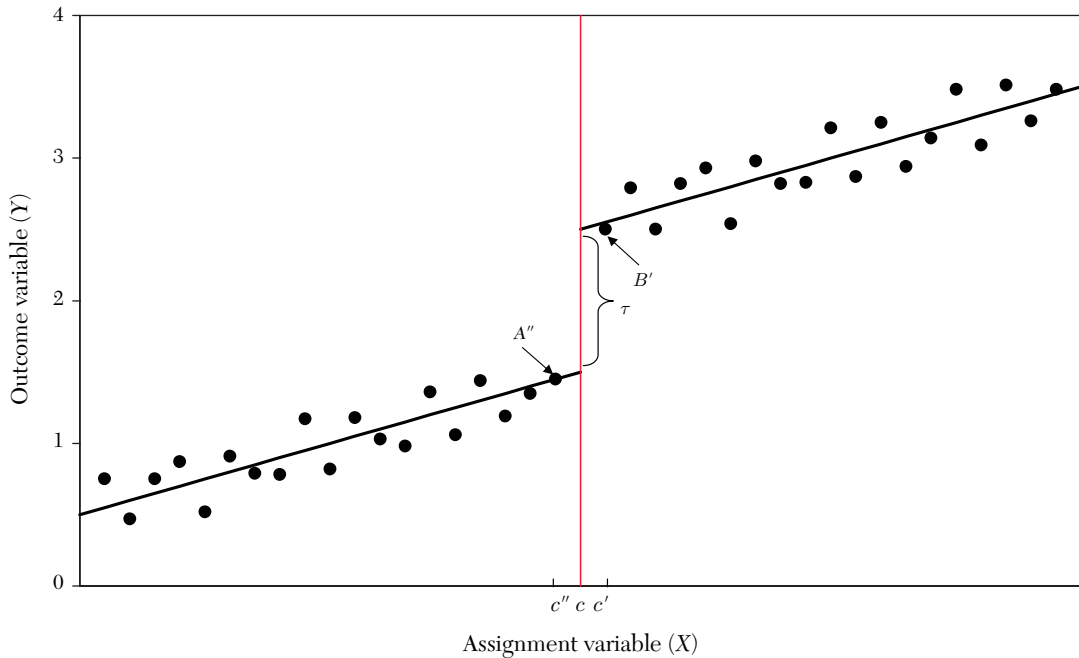


Figure 1. Simple Linear RD Setup

design. First, in order for this approach to work, “all other factors” determining  $Y$  must be evolving “smoothly” with respect to  $X$ . If the other variables also jump at  $c$ , then the gap  $\tau$  will potentially be biased for the treatment effect of interest. Second, since an RD estimate requires data away from the cut-off, the estimate will be dependent on the chosen functional form. In this example, if the slope  $\beta$  were (erroneously) restricted to equal zero, it is clear the resulting OLS coefficient on  $D$  would be a biased estimate of the true discontinuity gap.

## 2.2 RD Designs and the Potential Outcomes Framework

While the RD design was being imported into applied economic research by studies such as van der Klaauw (2002), Black (1999), and Angrist and Lavy (1999), the identification issues discussed above were formalized

in the theoretical work of Hahn, Todd, and van der Klaauw (2001), who described the RD evaluation strategy using the language of the treatment effects literature. Hahn, Todd, and van der Klaauw (2001) noted the key assumption of a valid RD design was that “all other factors” were “continuous” with respect to  $X$ , and suggested a nonparametric procedure for estimating  $\tau$  that did not assume underlying linearity, as we have in the simple example above.

The necessity of the continuity assumption is seen more formally using the “potential outcomes framework” of the treatment effects literature with the aid of a graph. It is typically imagined that, for each individual  $i$ , there exists a pair of “potential” outcomes:  $Y_i(1)$  for what would occur if the unit were exposed to the treatment and  $Y_i(0)$  if not exposed. The causal effect of the treatment is represented by the difference  $Y_i(1) - Y_i(0)$ .

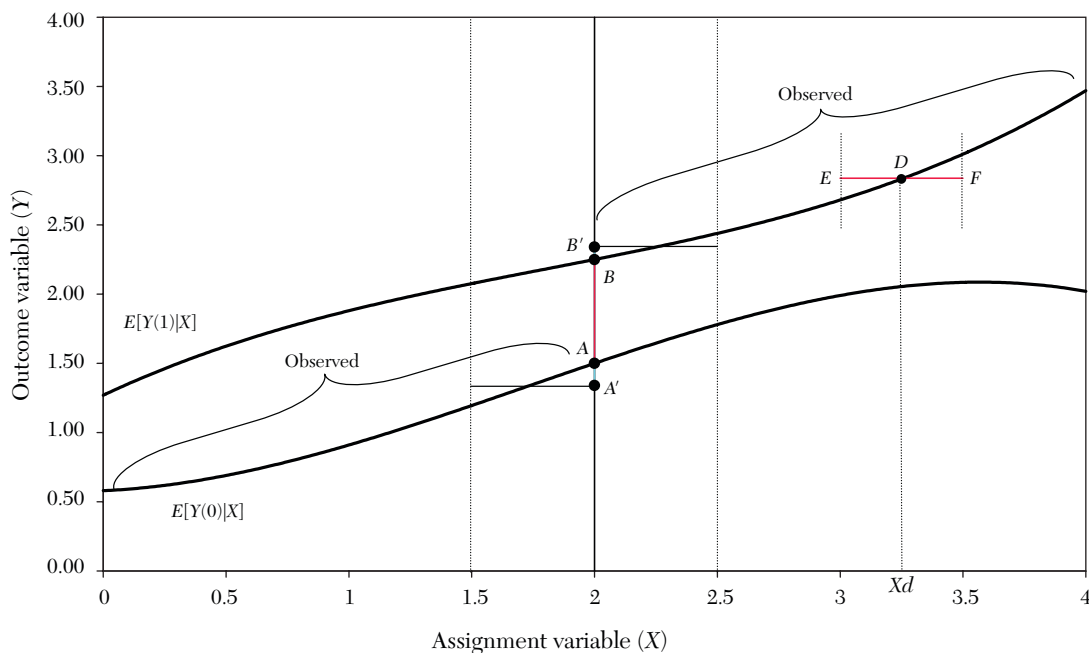


Figure 2. Nonlinear RD

The fundamental problem of causal inference is that we cannot observe the pair  $Y_i(0)$  and  $Y_i(1)$  simultaneously. We therefore typically focus on average effects of the treatment, that is, averages of  $Y_i(1) - Y_i(0)$  over (sub-)populations, rather than on unit-level effects.

In the RD setting, we can imagine there are two underlying relationships between average outcomes and  $X$ , represented by  $E[Y_i(1)|X]$  and  $E[Y_i(0)|X]$ , as in figure 2. But by definition of the RD design, all individuals to the right of the cutoff ( $c = 2$  in this example) are exposed to treatment and all those to the left are denied treatment. Therefore, we only observe  $E[Y_i(1)|X]$  to the right of the cutoff and  $E[Y_i(0)|X]$  to the left of the cutoff as indicated in the figure.

It is easy to see that with what is observable, we could try to estimate the quantity

$$B - A = \lim_{\varepsilon \downarrow 0} E[Y_i | X_i = c + \varepsilon] - \lim_{\varepsilon \uparrow 0} E[Y_i | X_i = c + \varepsilon],$$

which would equal

$$E[Y_i(1) - Y_i(0) | X = c].$$

This is the “average treatment effect” at the cutoff  $c$ .

This inference is possible because of the continuity of the underlying functions  $E[Y_i(1)|X]$  and  $E[Y_i(0)|X]$ .<sup>8</sup> In essence,

<sup>8</sup>The continuity of both functions is not the minimum that is required, as pointed out in Hahn, Todd, and van der Klaauw (2001). For example, identification is still possible even if only  $E[Y_i(0)|X]$  is continuous, and only continuous at  $c$ . Nevertheless, it may seem more natural to assume that the conditional expectations are continuous for all values of  $X$ , since cases where continuity holds at the cutoff point but not at other values of  $X$  seem peculiar.



this continuity condition enables us to use the average outcome of those right below the cutoff (who are denied the treatment) as a valid counterfactual for those right above the cutoff (who received the treatment).

Although the potential outcome framework is very useful for understanding how RD designs work in a framework applied economists are used to dealing with, it also introduces some difficulties in terms of interpretation. First, while the continuity assumption sounds generally plausible, it is not completely clear what it means from an economic point of view. The problem is that since continuity is not required in the more traditional applications used in economics (e.g., matching on observables), it is not obvious what assumptions about the behavior of economic agents are required to get continuity.

Second, RD designs are a fairly peculiar application of a “selection on observables” model. Indeed, the view in James J. Heckman, Robert J. Lalonde, and Jeffrey A. Smith (1999) was that “[r]egression discontinuity estimators constitute a special case of selection on observables,” and that the RD estimator is “a limit form of matching at one point.” In general, we need two crucial conditions for a matching/selection on observables approach to work. First, treatment must be randomly assigned conditional on observables (the *ignorability* or *unconfoundedness* assumption). In practice, this is typically viewed as a strong, and not particularly credible, assumption. For instance, in a standard regression framework this amounts to assuming that all relevant factors are controlled for, and that no omitted variables are correlated with the treatment dummy. In an RD design, however, this crucial assumption is trivially satisfied. When  $X \geq c$ , the treatment dummy  $D$  is always equal to 1. When  $X < c$ ,  $D$  is always equal to 0. Conditional on  $X$ , there is no variation left in  $D$ , so it

cannot, therefore, be correlated with any other factor.<sup>9</sup>

At the same time, the other standard assumption of *overlap* is violated since, strictly speaking, it is not possible to observe units with either  $D = 0$  or  $D = 1$  for a given value of the assignment variable  $X$ . This is the reason the continuity assumption is required—to compensate for the failure of the overlap condition. So while we cannot observe treatment and non-treatment for the same value of  $X$ , we can observe the two outcomes for values of  $X$  around the cutoff point that are arbitrarily close to each other.

### 2.3 RD Design as a Local Randomized Experiment

When looking at RD designs in this way, one could get the impression that they require some assumptions to be satisfied, while other methods such as matching on observables and IV methods simply require other assumptions.<sup>10</sup> From this point of view, it would seem that the assumptions for the RD design are just as arbitrary as those used for other methods. As we discuss throughout the paper, however, we do not believe this way of looking at RD designs does justice to their important advantages over most other existing methods. This point becomes much clearer once we compare the RD design to the “gold standard” of program evaluation methods, randomized experiments. We will show that the RD design is a much closer cousin of randomized experiments than other competing methods.

<sup>9</sup> In technical terms, the treatment dummy  $D$  follows a degenerate (concentrated at  $D = 0$  or  $D = 1$ ), but nonetheless random distribution conditional on  $X$ . Ignorability is thus trivially satisfied.

<sup>10</sup> For instance, in the survey of Angrist and Alan B. Krueger (1999), RD is viewed as an IV estimator, thus having essentially the same potential drawbacks and pitfalls.

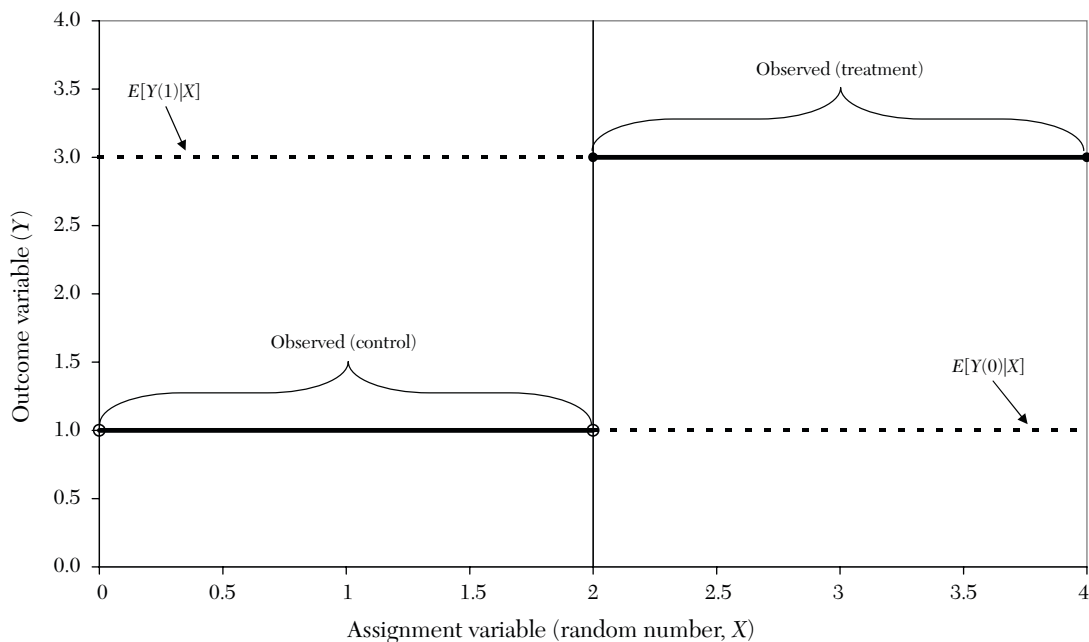


Figure 3. Randomized Experiment as a RD Design

In a randomized experiment, units are typically divided into treatment and control groups on the basis of a randomly generated number,  $\nu$ . For example, if  $\nu$  follows a uniform distribution over the range  $[0, 4]$ , units with  $\nu \geq 2$  are given the treatment while units with  $\nu < 2$  are denied treatment. So the randomized experiment can be thought of as an RD design where the assignment variable is  $X = \nu$  and the cutoff is  $c = 2$ . Figure 3 shows this special case in the potential outcomes framework, just as in the more general RD design case of figure 2. The difference is that because the assignment variable  $X$  is now completely random, it is independent of the potential outcomes  $Y_i(0)$  and  $Y_i(1)$ , and the curves  $E[Y_i(1)|X]$  and  $E[Y_i(0)|X]$  are flat. Since the curves are flat, it trivially follows that they are also continuous at the cutoff point  $X = c$ . In other

words, continuity is a direct consequence of randomization.

The fact that the curves  $E[Y_i(1)|X]$  and  $E[Y_i(0)|X]$  are flat in a randomized experiment implies that, as is well known, the average treatment effect can be computed as the difference in the mean value of  $Y$  on the right and left hand side of the cutoff. One could also use an RD approach by running regressions of  $Y$  on  $X$ , but this would be less efficient since we know that if randomization were successful, then  $X$  is an irrelevant variable in this regression.

But now imagine that, for ethical reasons, people are compensated for having received a “bad draw” by getting a monetary compensation inversely proportional to the random number  $X$ . For example, the treatment could be job search assistance for the unemployed, and the outcome whether one found a job

within a month of receiving the treatment. If people with a larger monetary compensation can afford to take more time looking for a job, the potential outcome curves will no longer be flat and will slope upward. The reason is that having a higher random number, i.e., a lower monetary compensation, increases the probability of finding a job. So in this “smoothly contaminated” randomized experiment, the potential outcome curves will instead look like the classical RD design case depicted in figure 2.

Unlike a classical randomized experiment, in this contaminated experiment a simple comparison of means no longer yields a consistent estimate of the treatment effect. By focusing right around the threshold, however, an RD approach would still yield a consistent estimate of the treatment effect associated with job search assistance. The reason is that since people just above or below the cutoff receive (essentially) the same monetary compensation, we still have locally a randomized experiment around the cutoff point. Furthermore, as in a randomized experiment, it is possible to test whether randomization “worked” by comparing the local values of baseline covariates on the two sides of the cutoff value.

Of course, this particular example is highly artificial. Since we know the monetary compensation is a continuous function of  $X$ , we also know the continuity assumption required for the RD estimates of the treatment effect to be consistent is also satisfied. The important result, due to Lee (2008), that we will show in the next section is that the conditions under which we locally have a randomized experiment (and continuity) right around the cutoff point are remarkably weak. Furthermore, in addition to being weak, the conditions for local randomization are testable in the same way global randomization is testable in a randomized experiment by looking at whether baseline covariates are balanced. It is in this sense

that the RD design is more closely related to randomized experiments than to other popular program evaluation methods such as matching on observables, difference-in-differences, and IV.

### 3. *Identification and Interpretation*

This section discusses a number of issues of identification and interpretation that arise when considering an RD design. Specifically, the applied researcher may be interested in knowing the answers to the following questions:

1. How do I know whether an RD design is appropriate for my context? When are the identification assumptions plausible or implausible?
2. Is there any way I can test those assumptions?
3. To what extent are results from RD designs generalizable?

On the surface, the answers to these questions seem straightforward: (1) “An RD design will be appropriate if it is plausible that all other unobservable factors are “continuously” related to the assignment variable,” (2) “No, the continuity assumption is necessary, so there are no tests for the validity of the design,” and (3) “The RD estimate of the treatment effect is only applicable to the subpopulation of individuals at the discontinuity threshold, and uninformative about the effect anywhere else.” These answers suggest that the RD design is no more compelling than, say, an instrumental variables approach, for which the analogous answers would be (1) “The instrument must be uncorrelated with the error in the outcome equation,” (2) “The identification assumption is ultimately untestable,” and (3) “The estimated treatment effect is applicable

to the subpopulation whose treatment was affected by the instrument.” After all, who’s to say whether one untestable design is more “compelling” or “credible” than another untestable design? And it would seem that having a treatment effect for a vanishingly small subpopulation (those at the threshold, in the limit) is hardly more (and probably much less) useful than that for a population “affected by the instrument.”

As we describe below, however, a closer examination of the RD design reveals quite different answers to the above three questions:

1. “When there is a continuously distributed stochastic error component to the assignment variable—which can occur when optimizing agents do not have *precise* control over the assignment variable—then the variation in the treatment will be as good as randomized in a neighborhood around the discontinuity threshold.”
2. “Yes. As in a randomized experiment, the distribution of observed baseline covariates should not change discontinuously at the threshold.”
3. “The RD estimand can be interpreted as a weighted average treatment effect, where the weights are the relative ex ante probability that the value of an individual’s assignment variable will be in the neighborhood of the threshold.”

Thus, in many contexts, the RD design may have more in common with randomized experiments (or circumstances when an instrument is truly randomized)—in terms of their “internal validity” and how to implement them in practice—than with regression control or matching methods, instrumental variables, or panel data approaches. We will return to this point after first discussing the above three issues in greater detail.

### 3.1 *Valid or Invalid RD?*

Are individuals able to influence the assignment variable, and if so, what is the nature of this control? This is probably the most important question to ask when assessing whether a particular application should be analyzed as an RD design. If individuals have a great deal of control over the assignment variable and if there is a perceived benefit to a treatment, one would certainly expect individuals on one side of the threshold to be systematically different from those on the other side.

Consider the test-taking RD example. Suppose there are two types of students: *A* and *B*. Suppose type *A* students are more able than *B* types, and that *A* types are also keenly aware that passing the relevant threshold (50 percent) will give them a scholarship benefit, while *B* types are completely ignorant of the scholarship and the rule. Now suppose that 50 percent of the questions are trivial to answer correctly but, due to random chance, students will sometimes make careless errors when they initially answer the test questions, but would certainly correct the errors if they checked their work. In this scenario, only type *A* students will make sure to check their answers before turning in the exam, thereby assuring themselves of a passing score. Thus, while we would expect those who barely passed the exam to be a mixture of type *A* and type *B* students, those who barely failed would exclusively be type *B* students. In this example, it is clear that the marginal failing students do *not* represent a valid counterfactual for the marginal passing students. Analyzing this scenario within an RD framework would be inappropriate.

On the other hand, consider the same scenario, except assume that questions on the exam are *not* trivial; there are no guaranteed passes, no matter how many times the students check their answers before turning in the exam. In this case, it seems more

plausible that, among those scoring near the threshold, it is a matter of “luck” as to which side of the threshold they land. Type A students can exert more effort—because they know a scholarship is at stake—but they do not know the exact score they will obtain. In this scenario, it would be reasonable to argue that those who marginally failed and passed would be otherwise comparable, and that an RD analysis *would* be appropriate and would yield credible estimates of the impact of the scholarship.

These two examples make it clear that one must have some knowledge about the mechanism generating the assignment variable beyond knowing that, if it crosses the threshold, the treatment is “turned on.” It is “folk wisdom” in the literature to judge whether the RD is appropriate based on whether individuals could manipulate the assignment variable and *precisely* “sort” around the discontinuity threshold. The key word here is “precise” rather than “manipulate.” After all, in both examples above, individuals do exert some control over the test score. And indeed, in virtually every known application of the RD design, it is easy to tell a plausible story that the assignment variable is to some degree influenced by *someone*. But individuals will not always be able to have *precise* control over the assignment variable. It should perhaps seem obvious that it is necessary to rule out precise sorting to justify the use of an RD design. After all, individual self-selection into treatment or control regimes is exactly why simple comparison of means is unlikely to yield valid causal inferences. Precise sorting around the threshold is self-selection.

What is not obvious, however, is that, when one formalizes the notion of having imprecise control over the assignment variable, there is a striking consequence: the variation in the treatment in a neighborhood of the threshold is “as good as randomized.” We explain this below.

### 3.1.1 Randomized Experiments from Nonrandom Selection

To see how the inability to precisely control the assignment variable leads to a source of randomized variation in the treatment, consider a simplified formulation of the RD design:<sup>11</sup>

$$(2) \quad Y = D\tau + W\delta_1 + U$$

$$D = 1[X \geq c]$$

$$X = W\delta_2 + V,$$

where  $Y$  is the outcome of interest,  $D$  is the binary treatment indicator, and  $W$  is the vector of all predetermined and observable characteristics of the individual that might impact the outcome and/or the assignment variable  $X$ .

This model looks like a standard endogenous dummy variable set-up, except that we observe the assignment variable,  $X$ . This allows us to relax most of the other assumptions usually made in this type of model. First, we allow  $W$  to be endogenously determined as long as it is determined prior to  $V$ . Second, we take no stance as to whether some elements of  $\delta_1$  or  $\delta_2$  are zero (exclusion restrictions). Third, we make no assumptions about the correlations between  $W$ ,  $U$ , and  $V$ .<sup>12</sup>

In this model, individual heterogeneity in the outcome is completely described by the pair of random variables  $(W, U)$ ; anyone with the same values of  $(W, U)$  will have one of two values for the outcome, depending on whether they receive treatment. Note that,

<sup>11</sup> We use a simple linear endogenous dummy variable setup to describe the results in this section, but all of the results could be stated within the standard potential outcomes framework, as in Lee (2008).

<sup>12</sup> This is much less restrictive than textbook descriptions of endogenous dummy variable systems. It is typically assumed that  $(U, V)$  is independent of  $W$ .

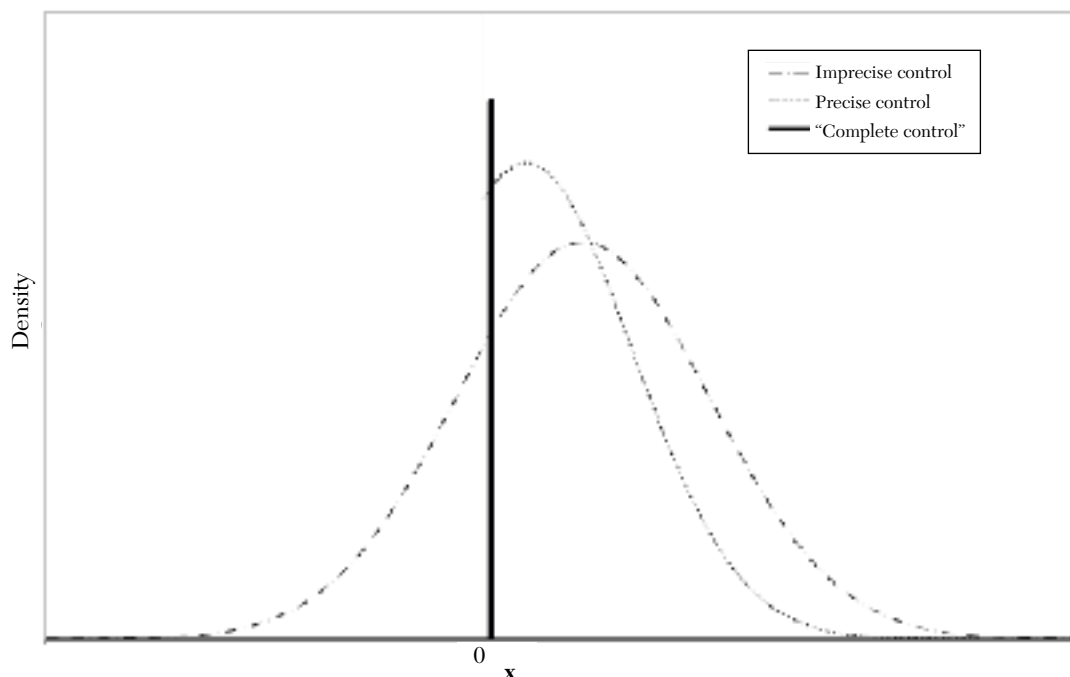


Figure 4. Density of Assignment Variable Conditional on  $W = w$ ,  $U = u$

since RD designs are implemented by running regressions of  $Y$  on  $X$ , equation (2) looks peculiar since  $X$  is not included with  $W$  and  $U$  on the right hand side of the equation. We could add a function of  $X$  to the outcome equation, but this would not make a difference since we have not made any assumptions about the joint distribution of  $W$ ,  $U$ , and  $V$ . For example, our setup allows for the case where  $U = X\delta_3 + U'$ , which yields the outcome equation  $Y = D\tau + W\delta_1 + X\delta_3 + U'$ . For the sake of simplicity, we work with the simple case where  $X$  is not included on the right hand side of the equation.<sup>13</sup>

Now consider the distribution of  $X$ , conditional on a particular pair of values  $W = w$ ,  $U = u$ . It is equivalent (up to a translational shift) to the distribution of  $V$  conditional on  $W = w$ ,  $U = u$ . If an individual has complete and exact control over  $X$ , we would model it as having a degenerate distribution, conditional on  $W = w$ ,  $U = u$ . That is, in repeated trials, this individual would choose the same score. This is depicted in figure 4 as the thick line.

If there is some room for error but individuals can nevertheless have precise control about whether they will fail to receive the

<sup>13</sup> When RD designs are implemented in practice, the estimated effect of  $X$  on  $Y$  can either reflect a true causal effect of  $X$  on  $Y$  or a spurious correlation between  $X$  and the

unobservable term  $U$ . Since it is not possible to distinguish between these two effects in practice, we simplify the setup by implicitly assuming that  $X$  only comes into equation (2) indirectly through its (spurious) correlation with  $U$ .



treatment, then we would expect the density of  $X$  to be zero just below the threshold, but positive just above the threshold, as depicted in figure 4 as the truncated distribution. This density would be one way to model the first example described above for the type A students. Since type A students know about the scholarship, they will double-check their answers and make sure they answer the easy questions, which comprise 50 percent of the test. How high they score above the passing threshold will be determined by some randomness.

Finally, if there is stochastic error in the assignment variable and individuals do *not* have precise control over the assignment variable, we would expect the density of  $X$  (and hence  $V$ ), conditional on  $W = w, U = u$  to be continuous at the discontinuity threshold, as shown in figure 4 as the untruncated distribution.<sup>14</sup> It is important to emphasize that, in this final scenario, the individual still has control over  $X$ : through her efforts, she can choose to shift the distribution to the right. This is the density for someone with  $W = w, U = u$ , but may well be different—with a different mean, variance, or shape of the density—for other individuals, with different levels of ability, who make different choices. We are assuming, however, that all individuals are unable to precisely control the score just around the threshold.

**Definition:** We say individuals have imprecise control over  $X$  when conditional on  $W = w$  and  $U = u$ , the density of  $V$  (and hence  $X$ ) is continuous.

When individuals have imprecise control over  $X$  this leads to the striking implication that variation in treatment status will be

randomized in a neighborhood of the threshold. To see this, note that by Bayes' Rule, we have

$$(3) \quad \Pr[W = w, U = u | X = x] \\ = f(x | W = w, U = u) \frac{\Pr[W = w, U = u]}{f(x)},$$

where  $f(\cdot)$  and  $f(\cdot | \cdot)$  are marginal and conditional densities for  $X$ . So when  $f(x | W = w, U = u)$  is continuous in  $x$ , the right hand side will be continuous in  $x$ , which therefore means that the distribution of  $W, U$  conditional on  $X$  will be continuous in  $x$ .<sup>15</sup> That is, *all observed and unobserved pre-determined characteristics will have identical distributions on either side of  $x = c$ , in the limit, as we examine smaller and smaller neighborhoods of the threshold.*

In sum,

**Local Randomization:** If individuals have imprecise control over  $X$  as defined above, then  $\Pr[W = w, U = u | X = x]$  is continuous in  $x$ : the treatment is “as good as” randomly assigned around the cutoff.

In other words, the behavioral assumption that individuals do not precisely manipulate  $X$  around the threshold has the *prediction* that treatment is locally randomized.

This is perhaps why RD designs can be so compelling. A deeper investigation into the real-world details of how  $X$  (and hence  $D$ ) is determined can help assess whether it is plausible that individuals have precise or imprecise control over  $X$ . By contrast, with

<sup>14</sup> For example, this would be plausible when  $X$  is a test score modeled as a sum of Bernoulli random variables, which is approximately normal by the central limit theorem.

<sup>15</sup> Since the potential outcomes  $Y(0)$  and  $Y(1)$  are functions of  $W$  and  $U$ , it follows that the distribution of  $Y(0)$  and  $Y(1)$  conditional on  $X$  is also continuous in  $x$  when individuals have imprecise control over  $X$ . This implies that the conditions usually invoked for consistently estimating the treatment effect (the conditional means  $E[Y(0) | X = x]$  and  $E[Y(1) | X = x]$  being continuous in  $x$ ) are also satisfied. See Lee (2008) for more detail.

most nonexperimental evaluation contexts, learning about how the treatment variable is determined will rarely lead one to conclude that it is “as good as” randomly assigned.

### 3.2 *Consequences of Local Random Assignment*

There are three practical implications of the above local random assignment result.

#### 3.2.1 *Identification of the Treatment Effect*

First and foremost, it means that the discontinuity gap at the cutoff identifies the treatment effect of interest. Specifically, we have

$$\begin{aligned}
 & \lim_{\varepsilon \downarrow 0} E[Y|X = c + \varepsilon] \\
 & \quad - \lim_{\varepsilon \uparrow 0} E[Y|X = c + \varepsilon] \\
 & = \tau + \lim_{\varepsilon \downarrow 0} \sum_{w,u} (w\delta_1 + u) \\
 & \quad \times \Pr[W = w, U = u | X = c + \varepsilon] \\
 & \quad - \lim_{\varepsilon \uparrow 0} \sum_{w,u} (w\delta_1 + u) \\
 & \quad \times \Pr[W = w, U = u | X = c + \varepsilon] \\
 & = \tau,
 \end{aligned}$$

where the last line follows from the continuity of  $\Pr[W = w, U = u | X = x]$ .

As we mentioned earlier, nothing changes if we augment the model by adding a direct impact of  $X$  itself in the outcome equation, as long as the effect of  $X$  on  $Y$  does not jump at the cutoff. For example, in the example of Thistlethwaite and Campbell (1960), we can allow higher test scores to improve future academic outcomes (perhaps by raising the probability of admission to higher quality schools) as long as that probability does not jump at precisely the same cutoff used to award scholarships.

#### 3.2.2 *Testing the Validity of the RD Design*

An almost equally important implication of the above local random assignment result is that it makes it possible to empirically assess the prediction that  $\Pr[W = w, U = u | X = x]$  is continuous in  $x$ . Although it is impossible to test this directly—since  $U$  is unobserved—it is nevertheless possible to assess whether  $\Pr[W = w | X = x]$  is continuous in  $x$  at the threshold. A discontinuity would indicate a failure of the identifying assumption.

This is akin to the tests performed to empirically assess whether the randomization was carried out properly in randomized experiments. It is standard in these analyses to demonstrate that treatment and control groups are similar in their observed baseline covariates. It is similarly impossible to test whether unobserved characteristics are balanced in the experimental context, so the most favorable statement that can be made about the experiment is that the data “failed to reject” the assumption of randomization.

Performing this kind of test is arguably more important in the RD design than in the experimental context. After all, the true nature of individuals’ control over the assignment variable—and whether it is precise or imprecise—may well be somewhat debatable even after a great deal of investigation into the exact treatment-assignment mechanism (which itself is always advisable to do). Imprecision of control will often be nothing more than a conjecture, but thankfully it has testable predictions.

There is a complementary, and arguably more direct and intuitive test of the imprecision of control over the assignment variable: examination of the density of  $X$  itself, as suggested in Justin McCrary (2008). If the density of  $X$  for each individual is continuous, then the marginal density of  $X$  over the population should be continuous as well. A jump in the density at the threshold is probably the most direct evidence of some degree

of sorting around the threshold, and should provoke serious skepticism about the appropriateness of the RD design.<sup>16</sup> Furthermore, one advantage of the test is that it can always be performed in a RD setting, while testing whether the covariates  $W$  are balanced at the threshold depends on the availability of data on these covariates.

This test is also a partial one. Whether each individual's ex ante density of  $X$  is continuous is fundamentally untestable since, for each individual, we only observe one realization of  $X$ . Thus, in principle, at the threshold some individuals' densities may jump up while others may sharply fall, so that in the aggregate, positives and negatives offset each other making the density appear continuous. In recent applications of RD such occurrences seem far-fetched. Even if this were the case, one would certainly expect to see, after stratifying by different values of the observable characteristics, some discontinuities in the density of  $X$ . These discontinuities could be detected by performing the local randomization test described above.

### 3.2.3 Irrelevance of Including Baseline Covariates

A consequence of a randomized experiment is that the assignment to treatment is, by construction, independent of the baseline covariates. As such, it is not necessary to include them to obtain consistent estimates of the treatment effect. In practice, however,

<sup>16</sup> Another possible source of discontinuity in the density of the assignment variable  $X$  is selective attrition. For example, John DiNardo and Lee (2004) look at the effect of unionization on wages several years after a union representation vote was taken. In principle, if firms that were unionized because of a majority vote are more likely to close down, then conditional on firm survival at a later date, there will be a discontinuity in  $X$  (the vote share) that could threaten the validity of the RD design for estimating the effect of unionization on wages (conditional on survival). In that setting, testing for a discontinuity in the density (conditional on survival) is similar to testing for selective attrition (linked to treatment status) in a standard randomized experiment.

researchers will include them in regressions, because doing so can reduce the sampling variability in the estimator. Arguably the greatest potential for this occurs when one of the baseline covariates is a pre-random-assignment observation on the dependent variable, which may likely be highly correlated with the post-assignment outcome variable of interest.

The local random assignment result allows us to apply these ideas to the RD context. For example, if the lagged value of the dependent variable was determined prior to the realization of  $X$ , then the local randomization result will imply that that lagged dependent variable will have a continuous relationship with  $X$ . Thus, performing an RD analysis on  $Y$  minus its lagged value should also yield the treatment effect of interest. The hope, however, is that the differenced outcome measure will have a sufficiently lower variance than the level of the outcome, so as to lower the variance in the RD estimator.

More formally, we have

$$\begin{aligned}
 & \lim_{\varepsilon \downarrow 0} E[Y - W\pi | X = c + \varepsilon] \\
 & - \lim_{\varepsilon \uparrow 0} E[Y - W\pi | X = c + \varepsilon] \\
 & = \tau + \lim_{\varepsilon \downarrow 0} \sum_{w,u} (w(\delta_1 - \pi) + u) \\
 & \quad \times \Pr[W = w, U = u | X = c + \varepsilon] \\
 & - \lim_{\varepsilon \uparrow 0} \sum_{w,u} (w(\delta_1 - \pi) + u) \\
 & \quad \times \Pr[W = w, U = u | X = c + \varepsilon] \\
 & = \tau,
 \end{aligned}$$

where  $W\pi$  is *any* linear function, and  $W$  can include a lagged dependent variable, for example. We return to how to implement this in practice in section 4.4.

### 3.3 Generalizability: The RD Gap as a Weighted Average Treatment Effect

In the presence of heterogeneous treatment effects, the discontinuity gap in an RD design can be interpreted as a *weighted* average treatment effect across *all* individuals. This is somewhat contrary to the temptation to conclude that the RD design only delivers a credible treatment effect for the subpopulation of individuals at the threshold and says nothing about the treatment effect “away from the threshold.” Depending on the context, this may be an overly simplistic and pessimistic assessment.

Consider the scholarship test example again, and define the “treatment” as “receiving a scholarship by scoring 50 percent or greater on the scholarship exam.” Recall that the pair  $W, U$  characterizes individual heterogeneity. We now let  $\tau(w, u)$  denote the treatment effect for an individual with  $W = w$  and  $U = u$ , so that the outcome equation in (2) is instead given by

$$Y = D\tau(W, U) + W\delta_1 + U.$$

This is essentially a model of completely unrestricted heterogeneity in the treatment effect. Following the same line of argument as above, we obtain

$$\begin{aligned} (5) \quad & \lim_{\varepsilon \downarrow 0} E[Y|X = c + \varepsilon] \\ & - \lim_{\varepsilon \uparrow 0} E[Y|X = c + \varepsilon] \\ & = \sum_{w,u} \tau(w, u) \Pr[W = w, U = u | X = c] \\ & = \sum_{w,u} \tau(w, u) \frac{f(c|W = w, U = u)}{f(c)} \\ & \quad \times \Pr[W = w, U = u], \end{aligned}$$

where the second line follows from equation (3).

The discontinuity gap then, is a particular kind of average treatment effect *across all individuals*. If not for the term  $f(c|W = w, U = u)/f(c)$ , it would be the average treatment effect for the entire population. The presence of the ratio  $f(c|W = w, U = u)/f(c)$  implies the discontinuity is instead a *weighted* average treatment effect where the weights are directly proportional to the ex ante likelihood that an individual's realization of  $X$  will be close to the threshold. All individuals could get some weight, and the similarity of the weights across individuals is ultimately untestable, since again we only observe one realization of  $X$  per person and do not know anything about the ex ante probability distribution of  $X$  for any one individual. The weights may be relatively similar across individuals, in which case the RD gap would be closer to the overall average treatment effect; but, if the weights are highly varied and also related to the magnitude of the treatment effect, then the RD gap would be very different from the overall average treatment effect. While it is not possible to know how close the RD gap is from the overall average treatment effect, it remains the case that the treatment effect estimated using a RD design is averaged over a larger population than one would have anticipated from a purely “cut-off” interpretation.

Of course, we do not observe the density of the assignment variable at the individual level so we therefore do not know the weight for each individual. Indeed, if the signal to noise ratio of the test is extremely high, someone who scores a 90 percent may have almost a zero chance of scoring near the threshold, implying that the RD gap is almost entirely dominated by those who score near 50 percent. But if the reliability is lower, then the RD gap applies to a relatively broader subpopulation. It remains to be seen whether or not and how information on the reliability, or a second test measurement, or other

covariates that can predict the assignment could be used in conjunction with the RD gap to learn about average treatment effects for the overall population. The understanding of the RD gap as a weighted average treatment effect serves to highlight that RD causal evidence is not somehow fundamentally disconnected from the average treatment effect that is often of interest to researchers.

It is important to emphasize that the RD gap is not informative about the treatment if it were defined as “receipt of a scholarship that is awarded by scoring 90 percent or higher on the scholarship exam.” This is not so much a “drawback” of the RD design as a limitation shared with even a carefully controlled randomized experiment. For example, if we randomly assigned financial aid awards to low-achieving students, whatever treatment effect we estimate may not be informative about the effect of financial aid for high-achieving students.

In some contexts, the treatment effect “away from the discontinuity threshold” may not make much practical sense. Consider the RD analysis of incumbency in congressional elections of Lee (2008). When the treatment is “being the incumbent party,” it is implicitly understood that incumbency entails winning the previous election by obtaining at least 50 percent of the vote.<sup>17</sup> In the election context, the treatment “being the incumbent party by virtue of winning an election, whereby 90 percent of the vote is required to win” simply does not apply to any real-life situation. Thus, in this context, it is awkward to interpret the RD gap as “the effect of incumbency that exists at 50 percent vote-share threshold” (as if there is an effect at a 90 percent threshold). Instead it is more natural to interpret the RD gap as estimating a weighted average treatment effect of incumbency across all districts, where more

weight is given to those districts in which a close election race was expected.

### 3.4 *Variations on the Regression Discontinuity Design*

To this point, we have focused exclusively on the “classic” RD design introduced by Thistlethwaite and Campbell (1960), whereby there is a single binary treatment and the assignment variable perfectly predicts treatment receipt. We now discuss two variants of this base case: (1) when there is so-called “imperfect compliance” of the rule and (2) when the treatment of interest is a continuous variable.

In both cases, the notion that the RD design generates local variation in treatment that is “as good as randomly assigned” is helpful because we can apply known results for randomized instruments to the RD design, as we do below. The notion is also helpful for addressing other data problems, such as differential attrition or sample selection, whereby the treatment affects whether or not you observe the outcome of interest. The local random assignment result means that, in principle, one could extend the ideas of Joel L. Horowitz and Charles F. Manski (2000) or Lee (2009), for example, to provide bounds on the treatment effect, accounting for possible sample selection bias.

#### 3.4.1. *Imperfect Compliance: The “Fuzzy” RD*

In many settings of economic interest, treatment is determined partly by whether the assignment variable crosses a cutoff point. This situation is very important in practice for a variety of reasons, including cases of imperfect take-up by program participants or when factors other than the threshold rule affect the probability of program participation. Starting with William M. K. Trochim (1984), this setting has been referred to as a “fuzzy” RD design. In the case we have discussed so far—the “sharp” RD design—the

<sup>17</sup> For this example, consider the simplified case of a two-party system.

probability of treatment jumps from 0 to 1 when  $X$  crosses the threshold  $c$ . The fuzzy RD design allows for a smaller jump in the probability of assignment to the treatment at the threshold and only requires

$$\lim_{\varepsilon \downarrow 0} \Pr(D = 1 | X = c + \varepsilon) \neq \lim_{\varepsilon \uparrow 0} \Pr(D = 1 | X = c + \varepsilon).$$

Since the probability of treatment jumps by less than one at the threshold, the jump in the relationship between  $Y$  and  $X$  can no longer be interpreted as an average treatment effect. As in an instrumental variable setting however, the treatment effect can be recovered by dividing the jump in the relationship between  $Y$  and  $X$  at  $c$  by the fraction induced to take-up the treatment at the threshold—in other words, the discontinuity jump in the relation between  $D$  and  $X$ . In this setting, the treatment effect can be written as

$$\tau_F = \frac{\lim_{\varepsilon \downarrow 0} E[Y | X = c + \varepsilon] - \lim_{\varepsilon \uparrow 0} E[Y | X = c + \varepsilon]}{\lim_{\varepsilon \downarrow 0} E[D | X = c + \varepsilon] - \lim_{\varepsilon \uparrow 0} E[D | X = c + \varepsilon]},$$

where the subscript “F” refers to the fuzzy RD design.

There is a close analogy between how the treatment effect is defined in the fuzzy RD design and in the well-known “Wald” formulation of the treatment effect in an instrumental variables setting. Hahn, Todd and van der Klaauw (2001) were the first to show this important connection and to suggest estimating the treatment effect using two-stage least-squares (TSLS) in this setting. We discuss estimation of fuzzy RD designs in greater detail in section 4.3.3.

Hahn, Todd and van der Klaauw (2001) furthermore pointed out that the interpretation of this ratio as a causal effect requires the same assumptions as in Imbens and Angrist (1994). That is, one must assume “monotonicity” (i.e.,  $X$  crossing the cutoff cannot simultaneously *cause* some units to take up and others to reject the treatment)

and “excludability” (i.e.,  $X$  crossing the cutoff cannot impact  $Y$  except through impacting receipt of treatment). When these assumptions are made, it follows that<sup>18</sup>

$$\tau_F = E[Y(1) - Y(0) | \text{unit is complier}, X = c],$$

where “compliers” are units that receive the treatment when they satisfy the cutoff rule ( $X_i \geq c$ ), but would not otherwise receive it.

In summary, if there is local random assignment (e.g., due to the plausibility of individuals’ imprecise control over  $X$ ), then we can simply apply all of what is known about the assumptions and interpretability of instrumental variables. The difference between the “sharp” and “fuzzy” RD design is exactly parallel to the difference between the randomized experiment with perfect compliance and the case of imperfect compliance, when only the “intent to treat” is randomized.

For example, in the case of imperfect compliance, even if a proposed binary instrument  $Z$  is randomized, it is necessary to rule out the possibility that  $Z$  affects the outcome, outside of its influence through treatment receipt,  $D$ . Only then will the instrumental variables estimand—the ratio of the reduced form effects of  $Z$  on  $Y$  and of  $Z$  on  $D$ —be properly interpreted as a causal effect of  $D$  on  $Y$ . Similarly, supposing that individuals do not have precise control over  $X$ , it is necessary to assume that whether  $X$  crosses the threshold  $c$  (the instrument) has no impact on  $y$  except by influencing  $D$ . Only then will the ratio of the two RD gaps in  $Y$  and  $D$  be properly interpreted as a causal effect of  $D$  on  $Y$ .

In the same way that it is important to verify a strong first-stage relationship in an IV design, it is equally important to verify

<sup>18</sup> See Imbens and Lemieux (2008) for a more formal exposition.



that a discontinuity exists in the relationship between  $D$  and  $X$  in a fuzzy RD design.

Furthermore, in this binary-treatment–binary-instrument context with unrestricted heterogeneity in treatment effects, the IV estimand is interpreted as the average treatment effect “for the subpopulation affected by the instrument,” (or LATE). Analogously, the ratio of the RD gaps in  $Y$  and  $D$  (the “fuzzy design” estimand) can be interpreted as a *weighted* LATE, where the weights reflect the ex ante likelihood the individual’s  $X$  is near the threshold. In both cases, the exclusion restriction and monotonicity condition must hold.

### 3.4.2 Continuous Endogenous Regressor

In a context where the “treatment” is a continuous variable—call it  $T$ —and there is a randomized binary instrument (that can additionally be excluded from the outcome equation), an IV approach is an obvious way of obtaining an estimate of the impact of  $T$  on  $Y$ . The IV estimand is the reduced-form impact of  $Z$  on  $Y$  divided by the first-stage impact of  $Z$  on  $T$ .

The same is true for an RD design when the regressor of interest is continuous. Again, the causal impact of interest will still be the ratio of the two RD gaps (i.e., the discontinuities in  $Y$  and  $T$ ).

To see this more formally, consider the model

$$\begin{aligned} (6) \quad Y &= T\gamma + W\delta_1 + U_1 \\ T &= D\phi + W\gamma + U_2 \\ D &= 1[X \geq c] \\ X &= W\delta_2 + V, \end{aligned}$$

which is the same set-up as before, except with the added second equation, allowing for imperfect compliance or other factors (observables  $W$  or unobservables  $U_2$ ) to

impact the continuous regressor of interest  $T$ . If  $\gamma = 0$  and  $U_2 = 0$ , then the model collapses to a “sharp” RD design (with a continuous regressor).

Note that we make no additional assumptions about  $U_2$  (in terms of its correlation with  $W$  or  $V$ ). We do continue to assume imprecise control over  $X$  (conditional on  $W$  and  $U_1$ , the density of  $X$  is continuous).<sup>19</sup>

Given the discussion so far, it is easy to show that

$$\begin{aligned} (7) \quad \lim_{\varepsilon \downarrow 0} E[Y|X = c + \varepsilon] & \\ & - \lim_{\varepsilon \uparrow 0} E[Y|X = c + \varepsilon] \\ & = \left\{ \lim_{\varepsilon \downarrow 0} E[T|X = c + \varepsilon] \right. \\ & \quad \left. - \lim_{\varepsilon \uparrow 0} E[T|X = c + \varepsilon] \right\} \gamma. \end{aligned}$$

The left hand side is simply the “reduced form” discontinuity in the relation between  $y$  and  $X$ . The term preceding  $\gamma$  on the right hand side is the “first-stage” discontinuity in the relation between  $T$  and  $X$ , which is also estimable from the data. Thus, analogous to the exactly identified instrumental variable case, the ratio of the two discontinuities yields the parameter  $\gamma$ : the effect of  $T$  on  $Y$ . Again, because of the added notion of imperfect compliance, it is important to assume that  $D$  ( $X$  crossing the threshold) does not directly enter the outcome equation.

In some situations, more might be known about the rule determining  $T$ . For example, in Angrist and Lavy (1999) and Miguel Urquiola and Eric A. Verhoogen (2009), class size is an increasing function of total school enrollment, except for discontinuities at various enrollment thresholds. But

<sup>19</sup> Although it would be unnecessary to do so for the identification of  $\gamma$ , it would probably be more accurate to describe the situation of imprecise control with the continuity of the density of  $X$  conditional on the three variables ( $W, U_1, U_2$ ). This is because  $U_2$  is now another variable characterizing heterogeneity in individuals.

additional information about characteristics such as the slope and intercept of the underlying function (apart from the magnitude of the discontinuity) generally adds nothing to the identification strategy.

To see this, change the second equation in (6) to  $T = D\phi + g(X)$  where  $g(\cdot)$  is any continuous function in the assignment variable. Equation (7) will remain the same and, thus, knowledge of the function  $g(\cdot)$  is irrelevant for identification.<sup>20</sup>

There is also no need for additional theoretical results in the case when there is individual-level heterogeneity in the causal effect of the continuous regressor  $T$ . The local random assignment result allows us to borrow from the existing IV literature and interpret the ratio of the RD gaps as in Angrist and Krueger (1999), except that we need to add the note that all averages are weighted by the ex ante relative likelihood that the individual's  $X$  will land near the threshold.

### 3.5 Summary: A Comparison of RD and Other Evaluation Strategies

We conclude this section by comparing the RD design with other evaluation approaches. We believe it is helpful to view the RD design as a distinct approach rather than as a special case of either IV or matching/regression-control. Indeed, in important ways the RD design is more similar to a randomized experiment, which we illustrate below.

Consider a randomized experiment where subjects are assigned a random number  $X$  and are given the treatment if  $X \geq c$ . By construction,  $X$  is independent and not systematically related to any observable or unobservable characteristic determined prior to the randomization. This situation is illustrated in panel A of figure 5. The first column shows

the relationship between the treatment variable  $D$  and  $X$ , a step function, going from 0 to 1 at the  $X = c$  threshold. The second column shows the relationship between the observables  $W$  and  $X$ . This is flat because  $X$  is completely randomized. The same is true for the unobservable variable  $U$ , depicted in the third column. These three graphs capture the appeal of the randomized experiment: treatment varies while all other factors are kept constant (on average). And even though we cannot directly test whether there are no treatment-control differences in  $U$ , we can test whether there are such differences in the observable  $W$ .

Now consider an RD design (panel B of figure 5) where individuals have imprecise control over  $X$ . Both  $W$  and  $U$  may be systematically related to  $X$ , perhaps due to the actions taken by units to increase their probability of receiving treatment. Whatever the shape of the relation, as long as individuals have imprecise control over  $X$ , the relationship will be continuous. And therefore, as we examine  $Y$  near the  $X = c$  cutoff, we can be assured that like an experiment, treatment varies (the first column) while other factors are kept constant (the second and third columns). And, like an experiment, we can test this prediction by assessing whether observables truly are continuous with respect to  $X$  (the second column).<sup>21</sup>

We now consider two other commonly used nonexperimental approaches, referring to the model (2):

$$Y = D\tau + W\delta_1 + U$$

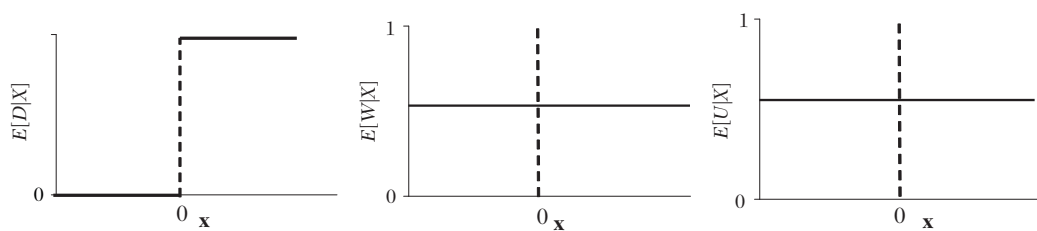
$$D = 1[X \geq c]$$

$$X = W\delta_2 + V.$$

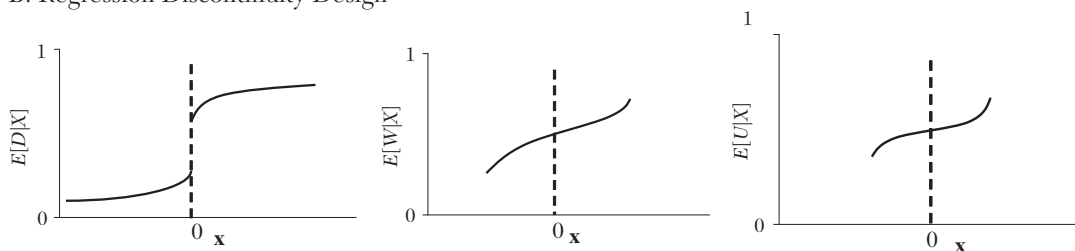
<sup>20</sup> As discussed in 3.2.1, the inclusion of a direct effect of  $X$  in the outcome equation will not change identification of  $\tau$ .

<sup>21</sup> We thank an anonymous referee for suggesting these illustrative graphs.

A. Randomized Experiment



B. Regression Discontinuity Design



C. Matching on Observables



D. Instrumental Variables

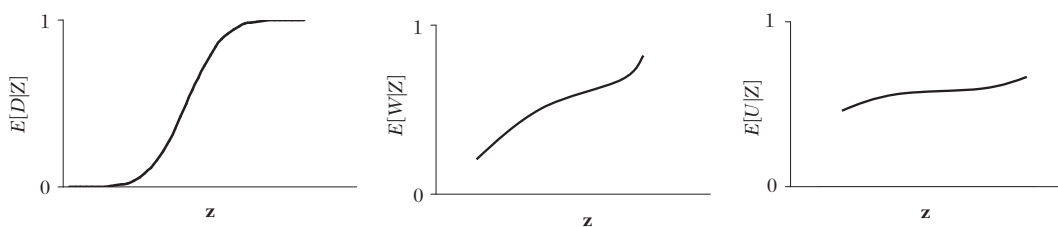


Figure 5. Treatment, Observables, and Unobservables in Four Research Designs

### 3.5.1 Selection on Observables: Matching/ Regression Control

The basic idea of the “selection on observables” approach is to adjust for differences in the  $W$ ’s between treated and control individuals. It is usually motivated by the fact that it seems “implausible” that the unconditional mean  $Y$  for the control group represents a valid counterfactual for the treatment group. So it is argued that, *conditional on  $W$* , treatment-control contrasts may identify the ( $W$ -specific) treatment effect.

The underlying assumption is that conditional on  $W$ ,  $U$  and  $V$  are independent. From this it is clear that

$$\begin{aligned} E[Y|D = 1, W = w] \\ & - E[Y|D = 0, W = w] \\ & = \tau + E[U|W = w, V \geq c - w\delta_2] \\ & \quad - E[U|W = w, V < c - w\delta_2] \\ & = \tau. \end{aligned}$$

Two issues arise when implementing this approach. The first is one of functional form: how exactly to control for the  $W$ ’s? When the  $W$ ’s take on discrete values, one possibility is to compute treatment effects for each distinct value of  $W$ , and then average these effects across the constructed “cells.” This will not work, however, when  $W$  has continuous elements, in which case it is necessary to implement multivariate matching, propensity score, reweighting procedures, or nonparametric regressions.<sup>22</sup>

Regardless of the functional form issue, there is arguably a more fundamental question of which  $W$ ’s to use in the analysis. While it is tempting to answer “all of them” and

hope that more  $W$ ’s will lead to less biased estimates, this is obviously not necessarily the case. For example, consider estimating the economic returns to graduating high school (versus dropping out). It seems natural to include variables like parents’ socioeconomic status, family income, year, and place of birth in the regression. Including more and more family-level  $W$ ’s will ultimately lead to a “within-family” sibling analysis; extending it even further by including date of birth leads to a “within-twin-pair” analysis. And researchers have been critical—justifiably so—of this source of variation in education. The same reasons causing discomfort about the twin analyses should also cause skepticism about “kitchen sink” multivariate matching/propensity score/regression control analyses.<sup>23</sup>

It is also tempting to believe that, if the  $W$ ’s do a “good job” in predicting  $D$ , the selection on observables approach will “work better.” But the opposite is true: in the extreme case when the  $W$ ’s perfectly predict  $X$  (and hence  $D$ ), it is *impossible* to construct a treatment-control contrast for virtually all observations. For each value of  $W$ , the individuals will either all be treated or all control. In other words, there will be literally no overlap in the support of the propensity score for the treated and control observations. The propensity score would take the values of either 1 or 0.

The “selection on observables” approach is illustrated in panel C of figure 5. Observables  $W$  can help predict the probability of treatment (first column), but ultimately one must assume that unobservable factors  $U$  must be the same for treated and control units for

<sup>22</sup> See Hahn (1998) on including covariates directly with nonparametric regression.

<sup>23</sup> Researchers question the twin analyses on the grounds that it is not clear why one twin ends up having more education than the other, and that the assumption that education differences among twins is purely random (as ignorability would imply) is viewed as far-fetched. We thank David Card for pointing out this connection between twin analyses and matching approaches.

every value of  $W$ . That is, the crucial assumption is that the two lines in the third column be on top of each other. Importantly, there is no comparable graph in the second column because there is no way to test the design since all the  $W$ 's are used for estimation.

### 3.5.2 Selection on Unobservables:

#### *Instrumental Variables and "Heckit"*

A less restrictive modeling assumption is to allow  $U$  and  $V$  to be correlated, conditional on  $W$ . But because of the arguably "more realistic"/flexible data generating process, another assumption is needed to identify  $\tau$ . One such assumption is that some elements of  $W$  (call them  $Z$ ) enter the selection equation, but not the outcome equation and are also uncorrelated with  $U$ . An instrumental variables approach utilizes the fact that

$$\begin{aligned} E[Y|W^* = w^*, Z = z] \\ &= E[D|W^* = w^*, Z = z]\tau + w^*\gamma \\ &\quad + E[U|W^* = w^*, Z = z] \\ &= E[D|W^* = w^*, Z = z]\tau + w^*\gamma \\ &\quad + E[U|W^* = w^*], \end{aligned}$$

where  $W$  has been split up into  $W^*$  and  $Z$  and  $\gamma$  is the corresponding coefficient for  $w^*$ . Conditional on  $W^* = w^*$ ,  $Y$  only varies with  $Z$  because of how  $D$  varies with  $Z$ . Thus, one identifies  $\tau$  by "dividing" the reduced form quantity  $E[D|W^* = w^*, Z = z]\tau$  (which can be obtained by examining the expectation of  $Y$  conditional on  $Z$  for a particular value  $w^*$  of  $W^*$ ) by  $E[D|W^* = w^*, Z = z]$ , which is also provided by the observed data. It is common to model the latter quantity as a linear function in  $Z$ , in which case the IV estimator is (conditional on  $W^*$ ) the ratio of coefficients from regressions of  $Y$  on  $Z$  and  $D$  on  $Z$ . When  $Z$  is binary, this appears to be the only way to identify  $\tau$  without imposing further assumptions.

When  $Z$  is continuous, there is an additional approach to identifying  $\tau$ . The "Heckit" approach uses the fact that

$$\begin{aligned} E[Y|W^* = w^*, Z = z, D = 1] \\ &= \tau + w^*\gamma \\ &\quad + E[U|W^* = w^*, Z = z, V \geq c - w\delta_2] \\ E[Y|W^* = w^*, Z = z, D = 0] \\ &= w^*\gamma \\ &\quad + E[U|W^* = w^*, Z = z, V < c - w\delta_2]. \end{aligned}$$

If we further assume a functional form for the joint distribution of  $U, V$ , conditional on  $W^*$  and  $Z$ , then the "control function" terms  $E[U|W = w, V \geq c - w\delta_2]$  and  $E[U|W = w, V < c - w\delta_2]$  are functions of observed variables, with the parameters then estimable from the data. It is then possible, for any value of  $W = w$ , to identify  $\tau$  as

$$\begin{aligned} (8) \quad & (E[Y|W^* = w^*, Z = z, D = 1] \\ & - E[Y|W^* = w^*, Z = z, D = 0]) \\ & - (E[U|W^* = w^*, Z = z, V \geq c - w\delta_2] \\ & - E[U|W^* = w^*, Z = z, V < c - w\delta_2]). \end{aligned}$$

Even if the joint distribution of  $U, V$  is unknown, in principle it is still possible to identify  $\tau$ , if it were possible to choose two different values of  $Z$  such that  $c - w\delta_2$  approaches  $-\infty$  and  $\infty$ . If so, the last two terms in (8) approach  $E[U|W^* = w^*]$  and, hence, cancel one another. This is known as "identification at infinity."

Perhaps the most important assumption that any of these approaches require is the existence of a variable  $Z$  that is (conditional

on  $W^*$ ) independent of  $U$ .<sup>24</sup> There does not seem to be any way of testing the validity of this assumption. Different, but equally “plausible”  $Z$ ’s may lead to different answers, in the same way that including different sets of  $W$ ’s may lead to different answers in the selection on observables approach.

Even when there is a mechanism that justifies an instrument  $Z$  as “plausible,” it is often unclear which covariates  $W^*$  to include in the analysis. Again, when different sets of  $W^*$  lead to different answers, the question becomes which is more plausible:  $Z$  is independent of  $U$  conditional on  $W^*$  or  $Z$  is independent of  $U$  conditional on a *subset* of the variables in  $W^*$ ? While there may be some situations where knowledge of the mechanism dictates which variables to include, in other contexts, it may not be obvious.

The situation is illustrated in panel D of figure 5. It is necessary that the instrument  $Z$  is related to the treatment (as in the first column). The crucial assumption is regarding the relation between  $Z$  and the unobservables  $U$  (the third column). In order for an IV or a “Heckit” approach to work, the function in the third column needs to be flat. Of course, we cannot observe whether this is true. Furthermore, in most cases, it is unclear how to interpret the relation between  $W$  and  $Z$  (second column). Some might argue the observed relation between  $W$  and  $Z$  should be flat if  $Z$  is truly exogenous, and that if  $Z$  is highly correlated with  $W$ , then it casts doubt on  $Z$  being uncorrelated with  $U$ . Others will argue that using the second graph as a test is only appropriate when  $Z$  is truly randomized,

and that the assumption invoked is that  $Z$  is uncorrelated with  $U$ , *conditional on*  $W$ . In this latter case, the design seems fundamentally untestable, since all the remaining observable variables (the  $W$ ’s) are being “used up” for identifying the treatment effect.

### 3.5.3 RD as “Design” not “Method”

RD designs can be valid under the more general “selection on unobservables” environment, allowing an arbitrary correlation among  $U$ ,  $V$ , and  $W$ , but at the same time not requiring an instrument. As discussed above, all that is needed is that conditional on  $W$ ,  $U$ , the density of  $V$  is continuous, and the local randomization result follows.

How is an RD design able to achieve this, given these weaker assumptions? The answer lies in what is absolutely necessary in an RD design: observability of the latent index  $X$ . Intuitively, given that both the “selection on observables” and “selection on unobservables” approaches rely heavily on modeling  $X$  and its components (e.g., which  $W$ ’s to include, and the properties of the unobservable error  $V$  and its relation to other variables, such as an instrument  $Z$ ), actually *knowing* the value of  $X$  ought to help.

In contrast to the “selection on observables” and “selection on unobservables” modeling approaches, with the RD design the researcher can avoid taking any strong stance about what  $W$ ’s to include in the analysis, since the design *predicts* that the  $W$ ’s are irrelevant and unnecessary for identification. Having data on  $W$ ’s is, of course, of some use, as they allow testing of the underlying assumption (described in section 4.4).

For this reason, it may be more helpful to consider RD designs as a description of a particular *data generating process*, rather than a “method” or even an “approach.” In virtually any context with an outcome variable  $Y$ , treatment status  $D$ , and other observable variables  $W$ , in principle a researcher can construct a regression-control or instrumental variables

<sup>24</sup> For IV, violation of this assumption essentially means that  $Z$  varies with  $Y$  for reasons other than its influence on  $D$ . For the textbook “Heckit” approach, it is typically assumed that  $U$ ,  $V$  have the same distribution for any value of  $Z$ . It is also clear that the “identification at infinity” approach will only work if  $Z$  is uncorrelated with  $U$ , otherwise the last two terms in equation (8) would not cancel. See also the framework of Heckman and Edward Vytlačil (2005), which maintains the assumption of the independence of the error terms and  $Z$ , conditional on  $W^*$ .



(after designating one of the  $W$  variables a valid instrument) estimator, and state that the identification assumptions needed are satisfied.

This is not so with an RD design. Either the situation is such that  $X$  is observed, or it is not. If not, then the RD design simply does not apply.<sup>25</sup> If  $X$  is observed, then one has little choice but to attempt to estimate the expectation of  $Y$  conditional on  $X$  on either side of the cutoff. In this sense, the RD design *forces* the researcher to analyze it in a particular way, and there is little room for researcher discretion—at least from an identification standpoint. The design also predicts that the inclusion of  $W$ 's in the analysis should be irrelevant. Thus it naturally leads the researcher to examine the density of  $X$  or the distribution of  $W$ 's, conditional on  $X$ , for discontinuities as a test for validity.

The analogy of the truly randomized experiment is again helpful. Once the researcher is faced with what she thinks is a properly carried out randomized controlled trial, the analysis is quite straightforward. Even before running the experiment, most researchers agree it would be helpful to display the treatment-control contrasts in the  $W$ 's to test whether the randomization was carried out properly, then to show the simple mean comparisons, and finally to verify the inclusion of the  $W$ 's make little difference in the analysis, even if they might reduce sampling variability in the estimates.

#### 4. Presentation, Estimation, and Inference

In this section, we systematically discuss the nuts and bolts of implementing RD designs in practice. An important virtue of RD designs is that they provide a very

transparent way of graphically showing how the treatment effect is identified. We thus begin the section by discussing how to graph the data in an informative way. We then move to arguably the most important issue in implementing an RD design: the choice of the regression model. We address this by presenting the various possible specifications, discussing how to choose among them, and showing how to compute the standard errors.

Next, we discuss a number of other practical issues that often arise in RD designs. Examples of questions discussed include whether we should control for other covariates and what to do when the assignment variable is discrete. We discuss a number of tests to assess the validity of the RD designs, which examine whether covariates are “balanced” on the two sides of the threshold, and whether the density of the assignment variable is continuous at the threshold. Finally, we summarize our recommendations for implementing the RD design.

Throughout this section, we illustrate the various concepts using an empirical example from Lee (2008) who uses an RD design to estimate the causal effect of incumbency in U.S. House elections. We use a sample of 6,558 elections over the 1946–98 period (see Lee 2008 for more detail). The assignment variable in this setting is the fraction of votes awarded to Democrats in the previous election. When the fraction exceeds 50 percent, a Democrat is elected and the party becomes the incumbent party in the next election. Both the share of votes and the probability of winning the next election are considered as outcome variables.

##### 4.1 Graphical Presentation

A major advantage of the RD design over competing methods is its transparency, which can be illustrated using graphical methods. A standard way of graphing the data is to divide the assignment variable into a number of bins, making sure there are two separate

<sup>25</sup> Of course, sometimes it may seem at first that an RD design does not apply, but a closer inspection may reveal that it does. For example, see Per Pettersson (2000), which eventually became the RD analysis in Pettersson-Lidbom (2008b).

bins on each side of the cutoff point (to avoid having treated and untreated observations mixed together in the same bin). Then, the average value of the outcome variable can be computed for each bin and graphed against the mid-points of the bins.

More formally, for some bandwidth  $h$ , and for some number of bins  $K_0$  and  $K_1$  to the left and right of the cutoff value, respectively, the idea is to construct bins  $[b_k, b_{k+1}]$ , for  $k = 1, \dots, K = K_0 + K_1$ , where

$$b_k = c - (K_0 - k + 1)h.$$

The average value of the outcome variable in the bin is

$$\bar{Y}_k = \frac{1}{N_k} \sum_{i=1}^N Y_i 1\{b_k < X_i \leq b_{k+1}\}.$$

It is also useful to calculate the number of observations in each bin

$$N_k = \sum_{i=1}^N 1\{b_k < X_i \leq b_{k+1}\}$$

to detect a possible discontinuity in the assignment variable at the threshold, which would suggest manipulation.

There are several important advantages in graphing the data this way before starting to run regressions to estimate the treatment effect. First, the graph provides a simple way of visualizing what the functional form of the regression function looks like on either side of the cutoff point. Since the mean of  $Y$  in a bin is, for nonparametric kernel regression estimators, evaluated at the bin mid-point using a rectangular kernel, the set of bin means literally represent nonparametric estimates of the regression function. Seeing what the nonparametric regression looks like can then provide useful guidance in choosing the functional form of the regression models.

A second advantage is that comparing the mean outcomes just to the left and right of the cutoff point provides an indication of the magnitude of the jump in the regression function

at this point, i.e., of the treatment effect. Since an RD design is “as good as a randomized experiment” right around the cutoff point, the treatment effect could be computed by comparing the average outcomes in “small” bins just to the left and right of the cutoff point. If there is no visual evidence of a discontinuity in a simple graph, it is unlikely the formal regression methods discussed below will yield a significant treatment effect.

A third advantage is that the graph also shows whether there are unexpected comparable jumps at other points. If such evidence is clearly visible in the graph and cannot be explained on substantive grounds, this calls into question the interpretation of the jump at the cutoff point as the causal effect of the treatment. We discuss below several ways of testing explicitly for the existence of jumps at points other than the cutoff.

Note that the visual impact of the graph is typically enhanced by also plotting a relatively flexible regression model, such as a polynomial model, which is a simple way of smoothing the graph. The advantage of showing both the flexible regression line and the unrestricted bin means is that the regression line better illustrates the shape of the regression function and the size of the jump at the cutoff point, and laying this over the unrestricted means gives a sense of the underlying noise in the data.

Of course, if bins are too narrow the estimates will be highly imprecise. If they are too wide, the estimates may be biased as they fail to account for the slope in the regression line (negligible for very narrow bins). More importantly, wide bins make the comparisons on both sides of the cutoff less credible, as we are no longer comparing observations just to the left and right of the cutoff point.

This raises the question of how to choose the bandwidth (the width of the bin). In practice, this is typically done informally by trying to pick a bandwidth that makes the graphs look informative in the sense that bins

are wide enough to reduce the amount of noise, but narrow enough to compare observations “close enough” on both sides of the cutoff point. While it is certainly advisable to experiment with different bandwidths and see how the corresponding graphs look, it is also useful to have some formal guidance in the selection process.

One approach to bandwidth choice is based on the fact that, as discussed above, the mean outcomes by bin correspond to kernel regression estimates with a rectangular kernel. Since the standard kernel regression is a special case of a local linear regression where the slope term is equal to zero, the cross-validation procedure described in more detail in section 4.3.1 can also be used here by constraining the slope term to equal zero.<sup>26</sup> For reasons we discuss below, however, one should not solely rely on this approach to select the bandwidth since other reasonable subjective goals should be considered when choosing how to plot the data.

Furthermore, a range of bandwidths often yield similar values of the cross-validation function in practical applications (see below). A researcher may, therefore, want to use some discretion in choosing a bandwidth that provides a particularly compelling illustration of the RD design. An alternative approach is to choose a bandwidth based on a more heuristic visual inspection of the data, and then perform some tests to make sure this informal choice is not clearly rejected.

We suggest two such tests. Consider the case where one has decided to use  $K'$  bins based on a visual inspection of the data. The

first test is a standard  $F$ -test comparing the fit of a regression model with  $K'$  bin dummies to one where we further divide each bin into two equal sized smaller bins, i.e., increase the number of bins to  $2K'$  (reduce the bandwidth from  $h'$  to  $h'/2$ ). Since the model with  $K'$  bins is nested in the one with  $2K'$  bins, a standard  $F$ -test with  $K'$  degrees of freedom can be used. If the null hypothesis is not rejected, this provides some evidence that we are not oversmoothing the data by using only  $K'$  bins.

Another test is based on the idea that if the bins are “narrow enough,” then there should not be a systematic relationship between  $Y$  and  $X$ , that we capture using a simple regression of  $Y$  on  $X$ , within each bin. Otherwise, this suggests the bin is too wide and that the mean value of  $Y$  over the whole bin is not representative of the mean value of  $Y$  at the boundaries of the bin. In particular, when this happens in the two bins next to the cutoff point, a simple comparison of the two bin means yields a biased estimate of the treatment effect. A simple test for this consists of adding a set of interactions between the bin dummies and  $X$  to a base regression of  $Y$  on the set of bin dummies, and testing whether the interactions are jointly significant. The test statistic once again follows a  $F$  distribution with  $K'$  degrees of freedom.

Figures 6–11 show the graphs for the share of Democrat vote in the next election and the probability of Democrats winning the next election, respectively. Three sets of graphs with different bandwidths are reported using a bandwidth of 0.02 in figures 6 and 9, 0.01 in figures 7 and 10, and 0.005

<sup>26</sup> In section 4.3.1, we consider the cross-validation function  $CV_Y(h) = (1/N) \sum_{i=1}^N (Y_i - \hat{Y}(X_i))^2$  where  $\hat{Y}(X_i)$  is the predicted value of  $Y_i$  based on a regression using observations with a bin of width  $h$  on either the left (for observations on left of the cutoff) or the right (for observations on the right of the cutoff) of observation  $i$ , but not including observation  $i$  itself. In the context of the graph discussed here, the only modification to the cross-validation function is that the predicted value  $\hat{Y}(X_i)$  is based only

on a regression with a constant term, which means  $\hat{Y}(X_i)$  is the average value of  $Y$  among all observations in the bin (excluding observation  $i$ ). Note that this is slightly different from the standard cross-validation procedure in kernel regressions where the left-out observation is in the middle instead of the edge of the bin (see, for example, Richard Blundell and Alan Duncan 1998). Our suggested procedure is arguably better suited to the RD context since estimation of the treatment effect takes place at boundary points.

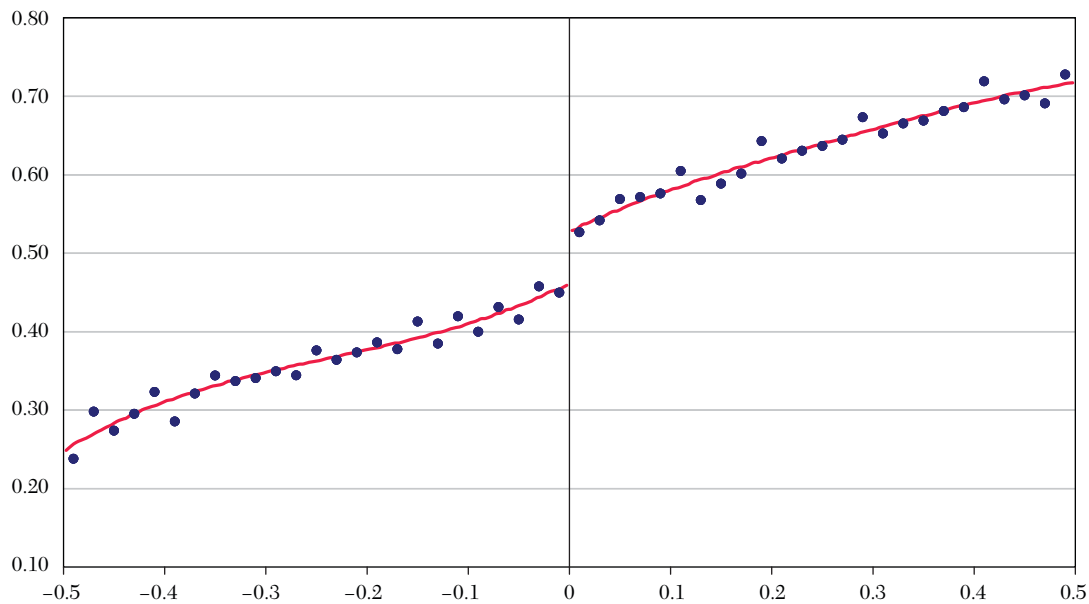


Figure 6. Share of Vote in Next Election, Bandwidth of 0.02 (50 bins)

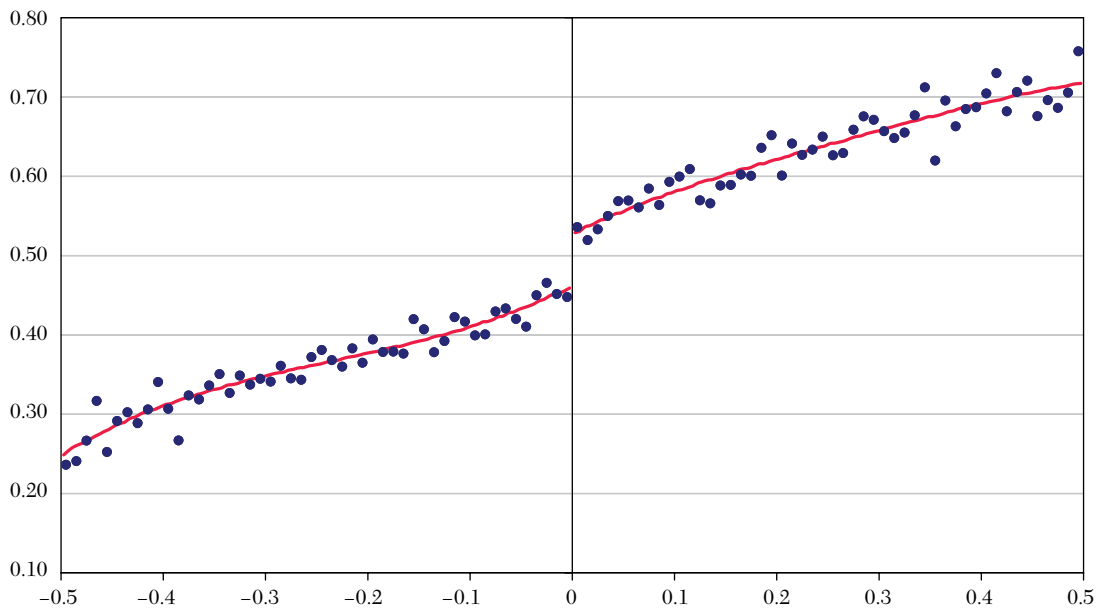


Figure 7. Share of Vote in Next Election, Bandwidth of 0.01 (100 bins)

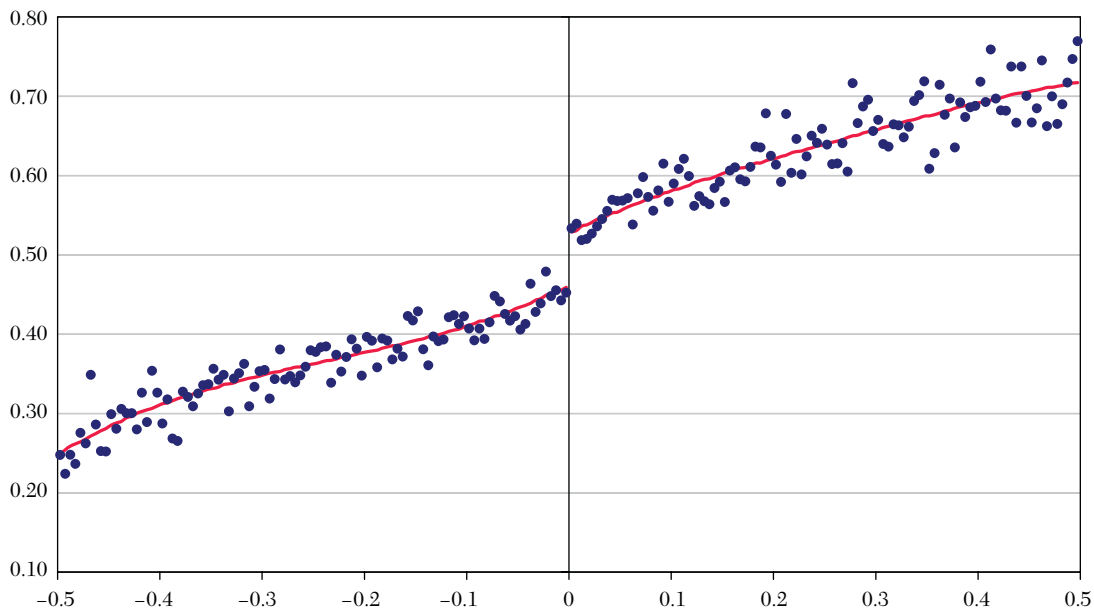


Figure 8. Share of Vote in Next Election, Bandwidth of 0.005 (200 bins)

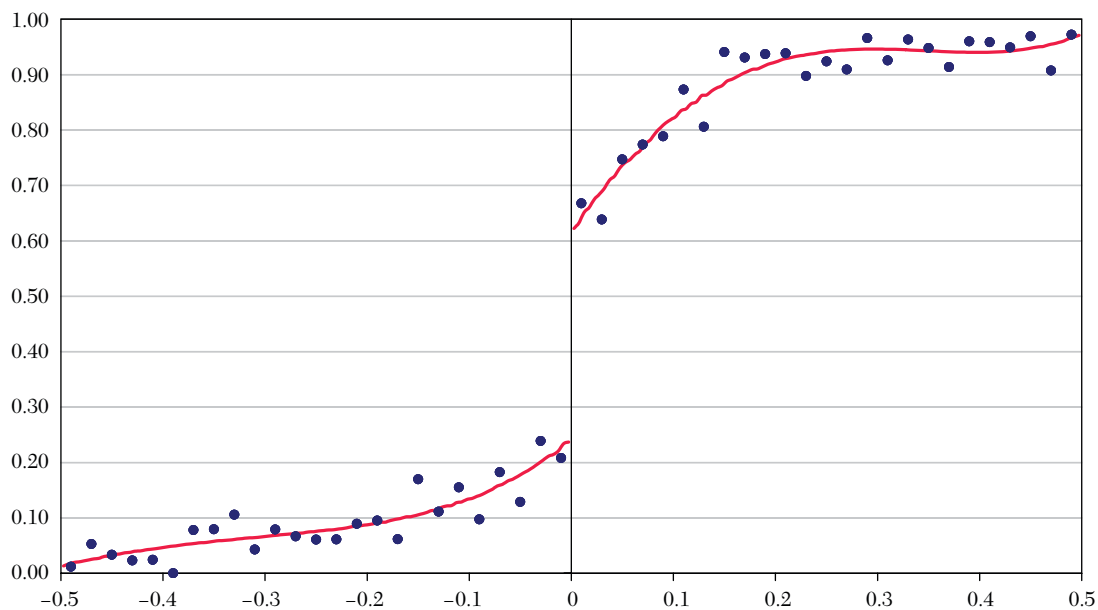


Figure 9. Winning the Next Election, Bandwidth of 0.02 (50 bins)

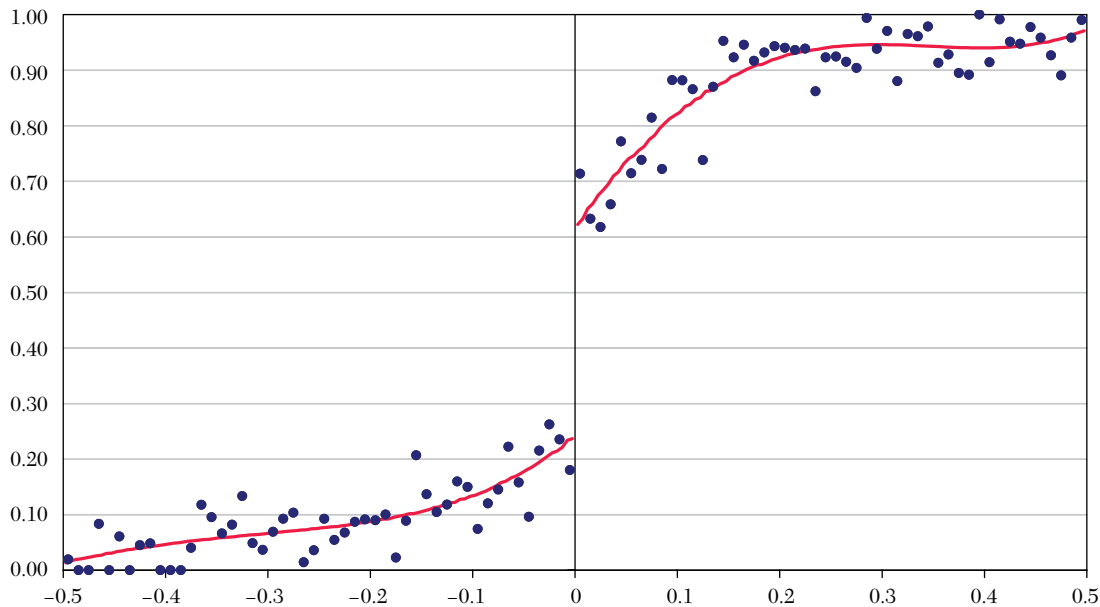


Figure 10. Winning the Next Election, Bandwidth of 0.01 (100 bins)

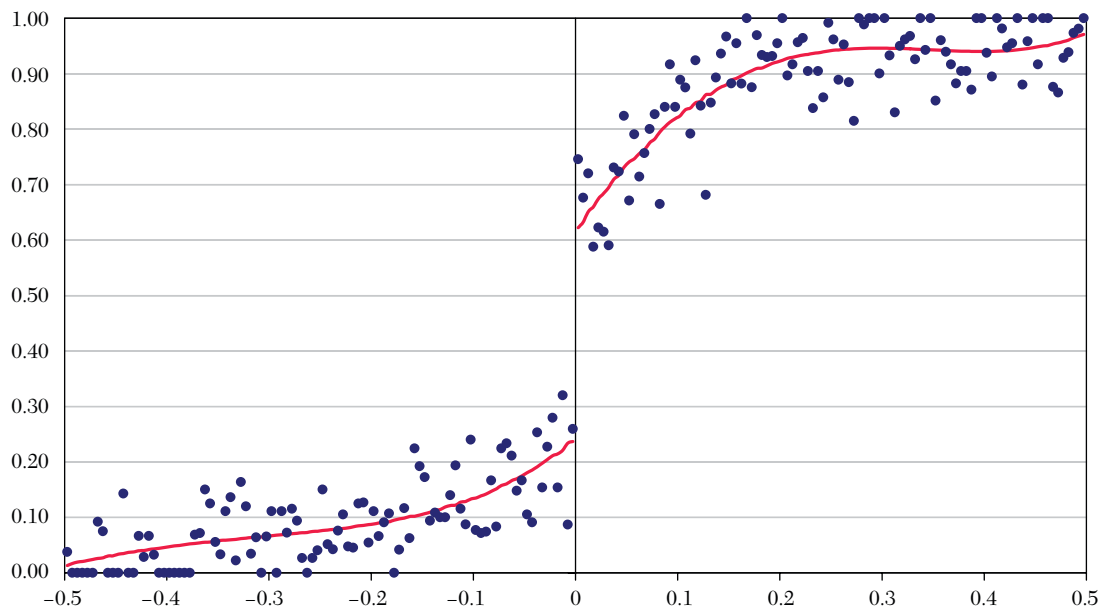


Figure 11. Winning the Next Election, Bandwidth of 0.005 (200 bins)



in figures 8 and 11. In all cases, we also show the fitted values from a quartic regression model estimated separately on each side of the cutoff point. Note that the assignment variable is normalized as the difference between the share of vote to Democrats and Republicans in the previous election. This means that a Democrat is the incumbent when the assignment variable exceeds zero. We also limit the range of the graphs to winning margins of 50 percent or less (in absolute terms) as data become relatively sparse for larger winning (or losing) margins.

All graphs show clear evidence of a discontinuity at the cutoff point. While the graphs are all quite informative, the ones with the smallest bandwidth (0.005, figures 8 and 11) are more noisy and likely provide too many data points (200) for optimal visual impact.

The results of the bandwidth selection procedures are presented in table 1. Panel A shows the cross-validation procedure always suggests using a bandwidth of 0.02 or more, which corresponds to similar or wider bins than those used in figures 6 and 9 (those with the largest bins). This is true irrespective of whether we pick a separate bandwidth on each side of the cutoff (first two rows of the panel), or pick the bandwidth that minimizes the cross-validation function for the entire date range on both the left and right sides of the cutoff. In the case where the outcome variable is winning the next election, the cross-validation procedure for the data to the right of the cutoff point and for the entire range suggests using a very wide bin (0.049) that would only yield about ten bins on each side of the cutoff.

As it turns out, the cross-validation function for the entire data range has two local minima at 0.021 and 0.049 that correspond to the optimal bandwidths on the left and right hand side of the cutoff. This is illustrated in figure 12, which plots the cross-validation function as a function of the bandwidth. By contrast, the cross-validation function is better behaved and shows a global minimum around 0.020

when the outcome variable is the vote share (figure 13). For both outcome variables, the value of the cross-validation function grows quickly for bandwidths smaller than 0.02, suggesting that the graphs with narrower bins (figures 7, 8, 10, and 11) are too noisy.

Panel B of table 1 shows the results of our two suggested specification tests. The tests based on doubling the number of bins and running regressions within each bin yield remarkably similar results. Generally speaking, the results indicate that only fairly wide bins are rejected. Looking at both outcome variables, the tests systematically reject models with bandwidths of 0.05 or more (twenty bins over the  $-0.5$  to  $0.5$  range). The models are never rejected for either outcome variable once we hit bandwidths of 0.02 (fifty bins) or less. In practice, the testing procedure rules out bins that are larger than those reported in figures 6–11.

At first glance, the results in the two panels of table 1 appear to be contradictory. The cross-validation procedure suggests bandwidths ranging from 0.02 to 0.05, while the bin and regression tests suggest that almost all bandwidths of less than 0.05 are acceptable. The reason for this discrepancy is that while the cross-validation procedure tries to balance precision and bias, the bin and regression tests only deal with the “bias” part of the equation by checking whether the value of  $Y$  is more or less constant within a given bin. Models with small bins easily pass this kind of test, although they may yield a very noisy graph. One alternative approach is to choose the largest possible bandwidth that passes the bin and the regression test, which turns out to be 0.033 in table 1, a bandwidth that is within the range of those suggested by the cross-validation procedure.

From a practical point of view, it seems to be the case that formal procedures, and in particular cross-validation, suggest bandwidths that are wider than those one would likely choose based on a simple visual examination

TABLE 1  
CHOICE OF BANDWIDTH IN GRAPH FOR VOTING EXAMPLE

**A. Optimal bandwidth selected by cross-validation**

Side of cutoff	Share of vote	Win next election
Left	0.021	0.049
Right	0.026	0.021
Both	0.021	0.049

**B. P-values of tests for the numbers of bins in RD graph**

No. of bins	Bandwidth	Share of vote		Win next election	
		Bin test	Regr. test	Bin test	Regr. test
10	0.100	0.000	0.000	0.001	0.000
20	0.050	0.000	0.000	0.026	0.049
30	0.033	0.163	0.390	0.670	0.129
40	0.025	0.157	0.296	0.024	0.020
50	0.020	0.957	0.721	0.477	0.552
60	0.017	0.159	0.367	0.247	0.131
70	0.014	0.596	0.130	0.630	0.743
80	0.013	0.526	0.740	0.516	0.222
90	0.011	0.815	0.503	0.806	0.803
100	0.010	0.787	0.976	0.752	0.883

*Notes:* Estimated over the range of the forcing variable (Democrat to Republican difference in the share of vote in the previous election) ranging between  $-0.5$  and  $0.5$ . The “bin test” is computed by comparing the fit of a model with the number of bins indicated in the table to an alternative where each bin is split in 2. The “regression test” is a joint test of significance of bin-specific regression estimates of the outcome variable on the share of vote in the previous election.

of the data. In particular, both figures 7 and 10 (bandwidth of 0.01) look visually acceptable but are clearly not recommended on the basis of the cross-validation procedure. This likely reflects the fact that one important goal of the graph is to show how the raw data look, and too much smoothing would defy the purpose of such a data illustration exercise. Furthermore, the regression estimates of the treatment effect accompanying the graphical results are a formal way of smoothing the data to get precise estimates. This suggests that there is probably little harm in under-

smoothing (relative to what formal bandwidth selection procedures would suggest) to better illustrate the variation in the raw data when graphically illustrating an RD design.

## 4.2 Regression Methods

### 4.2.1 Parametric or Nonparametric Regressions?

When we introduced the RD design in section 2, we followed Thistlethwaite and Campbell (1960) in assuming that the

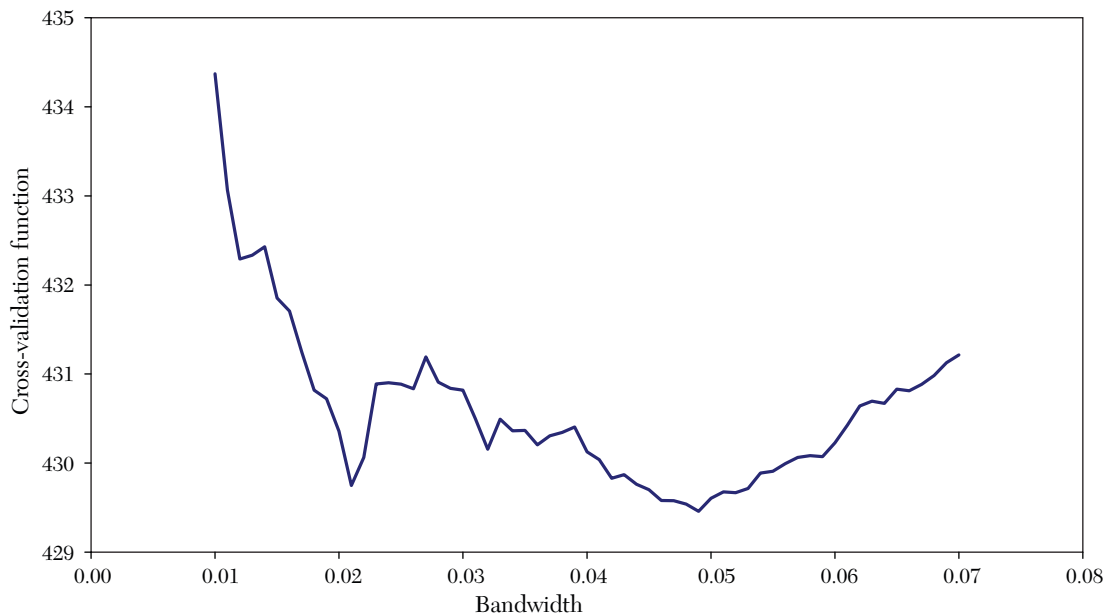


Figure 12. Cross-Validation Function for Choosing the Bandwidth in a RD Graph: Winning the Next Election

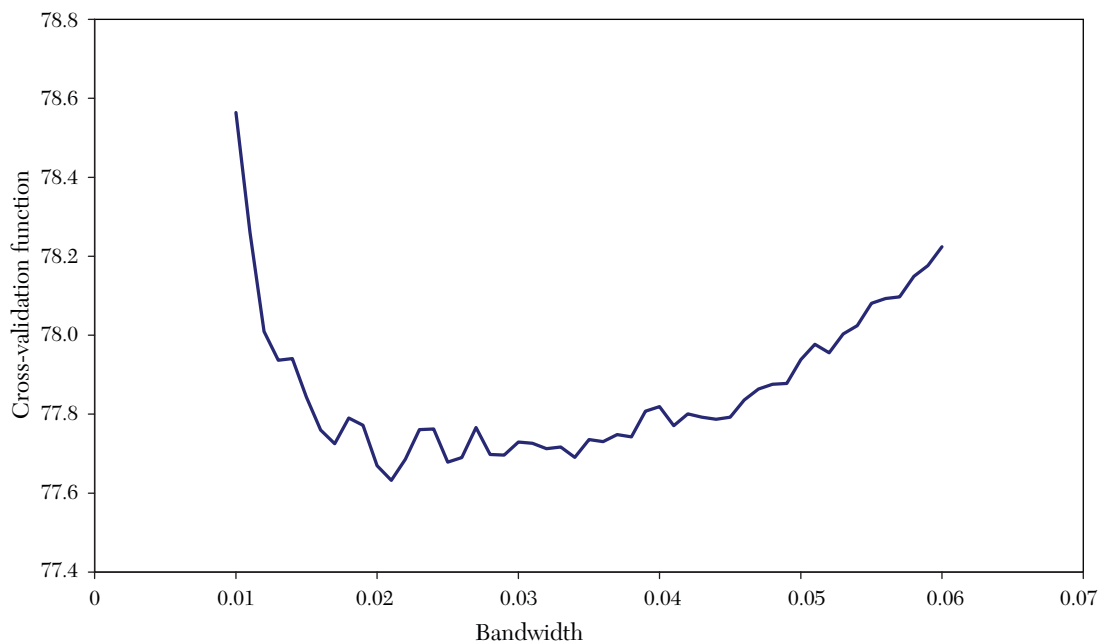


Figure 13. Cross-Validation Function for Choosing Bandwidth in a RD Graph: Share of Vote at Next Election

underlying regression model was linear in the assignment variable  $X$ :

$$Y = \alpha + D\tau + X\beta + \varepsilon.$$

In general, as in any other setting, there is no particular reason to believe that the true model is linear. The consequences of using an incorrect functional form are more serious in the case of RD designs however, since misspecification of the functional form typically generates a bias in the treatment effect,  $\tau$ .<sup>27</sup> This explains why, starting with Hahn, Todd, and van der Klaauw (2001), the estimation of RD designs have generally been viewed as a nonparametric estimation problem.

This being said, applied papers using the RD design often just report estimates from parametric models. Does this mean that these estimates are incorrect? Should all studies use nonparametric methods instead? As we pointed out in the introduction, we think that the distinction between parametric and nonparametric methods has sometimes been a source of confusion to practitioners. Before covering in detail the practical issues involved in the estimation of RD designs, we thus provide some background to help clarify the insights provided by nonparametric analysis, while also explaining why, in practice, RD designs can still be implemented using “parametric” methods.

Going beyond simple parametric linear regressions when the true functional form is unknown is a well-studied problem in econometrics and statistics. A number of nonparametric methods have been suggested to provide flexible estimates of the regression

function. As it turns out, however, the RD setting poses a particular problem because we need to estimate regressions at the cutoff point. This results in a “boundary problem” that causes some complications for nonparametric methods.

From an applied perspective, a simple way of relaxing the linearity assumption is to include polynomial functions of  $X$  in the regression model. This corresponds to the series estimation approach often used in nonparametric analysis. A possible disadvantage of the approach, however, is that it provides global estimates of the regression function over all values of  $X$ , while the RD design depends instead on local estimates of the regression function at the cutoff point. The fact that polynomial regression models use data far away from the cutoff point to predict the value of  $Y$  at the cutoff point is not intuitively appealing. That said, trying more flexible specification by adding polynomials in  $X$  as regressors is an important and useful way of assessing the robustness of the RD estimates of the treatment effect.

The other leading nonparametric approach is kernel regressions. Unlike series (polynomial) estimators, the kernel regression is fundamentally a local method well suited for estimating the regression function at a particular point. Unfortunately, this property does not help very much in the RD setting because the cutoff represents a boundary point where kernel regressions perform poorly.

These issues are illustrated in figure 2, which shows a situation where the relationship between  $Y$  and  $X$  (under treatment or control) is nonlinear. First, consider the point  $D$  located away from the cutoff point. The kernel estimate of the regression of  $Y$  on  $X$  at  $X = X_d$  is simply a local mean of  $Y$  for values of  $X$  close to  $X_d$ . The kernel function provides a way of computing this local average by putting more weight on observations with values of  $X$  close to  $X_d$  than on observations with values of  $X$  far away from  $X_d$ . Following Imbens

<sup>27</sup> By contrast, when one runs a linear regression in a model where the true functional form is nonlinear, the estimated model can still be interpreted as a linear predictor that minimizes specification errors. But since specification errors are only minimized globally, we can still have large specification errors at specific points including the cutoff point and, therefore, a large bias in RD estimates of the treatment effect.

and Lemieux (2008), we focus on the convenient case of the rectangular kernel. In this setting, computing kernel regressions simply amounts to computing the average value of  $Y$  in the bin illustrated in figure 2. The resulting local average is depicted as the horizontal line  $EF$ , which is very close to true value of  $Y$  evaluated at  $X = X_d$  on the regression line.

Applying this local averaging approach is problematic, however, for the RD design. Consider estimating the value of the regression function just on the right of the cutoff point. Clearly, only observations on the right of the cutoff point that receive the treatment should be used to compute mean outcomes on the right hand side. Similarly, only observations on the left of the cutoff point that do not receive the treatment should be used to compute mean outcomes on the left hand side. Otherwise, regression estimates would mix observations with and without the treatment, which would invalidate the RD approach.

In this setting, the best thing is to compute the average value of  $Y$  in the bin just to the right and just to the left of the cutoff point. These two bins are shown in figure 2. The RD estimate based on kernel regressions is then equal to  $B' - A'$ . In this example where the regression lines are upward sloping, it is clear, however, that the estimate  $B' - A'$  overstates the true treatment effect represented as the difference  $B - A$  at the cutoff point. In other words, there is a systematic bias in kernel regression estimates of the treatment effect. Hahn, Todd, and van der Klaauw (2001) provide a more formal derivation of the bias (see also Imbens and Lemieux 2008 for a simpler exposition when the kernel is rectangular). In practical terms, the problem is that in finite samples the bandwidth has to be large enough to encompass enough observations to get a reasonable amount of precision in the estimated average values of  $Y$ . Otherwise, attempts to reduce the bias by shrinking the bandwidth will result in

extremely noisy estimates of the treatment effect.<sup>28</sup>

As a solution to this problem, Hahn, Todd, and van der Klaauw (2001) suggests running local linear regressions to reduce the importance of the bias. In our setup with a rectangular kernel, this suggestion simply amounts to running standard linear regressions within the bins on both sides of the cutoff point to better predict the value of the regression function right at the cutoff point. In this example, the regression lines within the bins around the cutoff point are close to linear. It follows that the predicted values of the local linear regressions at the cutoff point are very close to the true values of  $A$  and  $B$ . Intuitively, this means that running local linear regressions instead of just computing averages within the bins reduces the bias by an order of magnitude. Indeed, Hahn, Todd, and van der Klaauw (2001) show that the remaining bias is of an order of magnitude lower, and is comparable to the usual bias in kernel estimation at interior points like  $D$  (the small difference between the horizontal line  $EF$  and the true value of the regression line evaluated at  $D$ ).

In the literature on nonparametric estimation at boundary points, local linear regressions have been introduced as a means of reducing the bias in standard kernel regression methods.<sup>29</sup> One of the several contributions of Hahn, Todd, and van der Klaauw (2001) is to show how the same bias-reducing

<sup>28</sup> The trade-off between bias and precision is a fundamental feature of kernel regressions. A larger bandwidth yields more precise, but potentially biased, estimates of the regression. In an interior point like  $D$ , however, we see that the bias is of an order of magnitude lower than at the cutoff (boundary) point. In more technical terms, it can be shown (see Hahn, Todd, and van der Klaauw 2001 or Imbens and Lemieux 2008) that the usual bias is of order  $h^2$  at interior points, but of order  $h$  at boundary points, where  $h$  is the bandwidth. In other words, the bias dies off much more quickly when  $h$  goes to zero when we are at interior, as opposed to boundary, points.

<sup>29</sup> See Jianqing Fan and Irene Gijbels (1996).

procedure should also be applied to the RD design. We have shown here that, in practice, this simply amounts to applying the original insight of Thistlethwaite and Campbell (1960) to a narrower window of observations around the cutoff point. When one is concerned that the regression function is not linear over the whole range of  $X$ , a highly sensible procedure is, thus, to restrict the estimation range to values closer to the cutoff point where the linear approximation of the regression line is less likely to result in large biases in the RD estimates. In practice, many applied papers present RD estimates with varying window widths to illustrate the robustness (or lack thereof) of the RD estimates to specification issues. It is comforting to know that this common empirical practice can be justified on more formal econometric grounds like those presented by Hahn, Todd, and van der Klaauw (2001). The main conclusion we draw from this discussion of nonparametric methods is that it is essential to explore how RD estimates are robust to the inclusion of higher order polynomial terms (the series or polynomial estimation approach) and to changes in the window width around the cutoff point (the local linear regression approach).

#### 4.3 *Estimating the Regression*

A simple way of implementing RD designs in practice is to estimate two separate regressions on each side of the cutoff point. In terms of computations, it is convenient to subtract the cutoff value from the covariate, i.e., transform  $X$  to  $X - c$ , so the intercepts of the two regressions yield the value of the regression functions at the cutoff point.

The regression model on the left hand side of the cutoff point ( $X < c$ ) is

$$Y = \alpha_l + f_l(X - c) + \varepsilon,$$

while the regression model on the right hand side of the cutoff point ( $X \geq c$ ) is

$$Y = \alpha_r + f_r(X - c) + \varepsilon,$$

where  $f_l(\cdot)$  and  $f_r(\cdot)$  are functional forms that we discuss later. The treatment effect can then be computed as the difference between the two regressions intercepts,  $\alpha_r$  and  $\alpha_l$ , on the two sides of the cutoff point. A more direct way of estimating the treatment effect is to run a pooled regression on both sides of the cutoff point:

$$Y = \alpha_l + \tau D + f(X - c) + \varepsilon,$$

where  $\tau = \alpha_r - \alpha_l$  and  $f(X - c) = f_l(X - c) + D[f_r(X - c) - f_l(X - c)]$ . One advantage of the pooled approach is that it directly yields estimates and standard errors of the treatment effect  $\tau$ . Note, however, that it is recommended to let the regression function differ on both sides of the cutoff point by including interaction terms between  $D$  and  $X$ . For example, in the linear case where  $f_l(X - c) = \beta_l(X - c)$  and  $f_r(X - c) = \beta_r(X - c)$ , the pooled regression would be

$$Y = \alpha_l + \tau D + \beta_l(X - c) + (\beta_r - \beta_l) D(X - c) + \varepsilon.$$

The problem with constraining the slope of the regression lines to be the same on both sides of the cutoff ( $\beta_r = \beta_l$ ) is best illustrated by going back to the separate regressions above. If we were to constrain the slope to be identical on both sides of the cutoff, this would amount to using data on the right hand side of the cutoff to estimate  $\alpha_l$ , and vice versa. Remember from section 2 that in an RD design, the treatment effect is obtained by comparing conditional expectations of  $Y$  when approaching from the left ( $\alpha_l = \lim_{x \uparrow c} E[Y_i | X_i = x]$ ) and from the right ( $\alpha_r = \lim_{x \downarrow c} E[Y_i | X_i = x]$ ) of the cutoff. Constraining the slope to be the same would thus be inconsistent with the spirit of



the RD design, as data from the right of the cutoff would be used to estimate  $\alpha_l$ , which is defined as a limit when approaching from the left of the cutoff, and vice versa.

In practice, however, estimates where the regression slope or, more generally, the regression function  $f(X - c)$  are constrained to be the same on both sides of the cutoff point are often reported. One possible justification for doing so is that if the functional form is indeed the same on both sides of the cutoff, then more efficient estimates of the treatment effect  $\tau$  are obtained by imposing that constraint. Such a constrained specification should only be viewed, however, as an additional estimate to be reported for the sake of completeness. It should not form the core basis of the empirical approach.

#### 4.3.1 Local Linear Regressions and Bandwidth Choice

As discussed above, local linear regressions provide a nonparametric way of consistently estimating the treatment effect in an RD design (Hahn, Todd, and van der Klaauw (2001), Jack Porter (2003)). Following Imbens and Lemieux (2008), we focus on the case of a rectangular kernel, which amounts to estimating a standard regression over a window of width  $h$  on both sides of the cutoff point. While other kernels (triangular, Epanechnikov, etc.) could also be used, the choice of kernel typically has little impact in practice. As a result, the convenience of working with a rectangular kernel compensates for efficiency gains that could be achieved using more sophisticated kernels.<sup>30</sup>

The regression model on the left hand side of the cutoff point is

$$Y = \alpha_l + \beta_l (X - c) + \varepsilon,$$

$$\text{where } c - h \leq X < c,$$

while the regression model on the right hand side of the cutoff point is

$$Y = \alpha_r + \beta_r (X - c) + \varepsilon,$$

$$\text{where } c \leq X \leq c + h.$$

As before, it is also convenient to estimate the pooled regression

$$Y = \alpha_l + \tau D + \beta_l (X - c) + (\beta_r - \beta_l) D (X - c) + \varepsilon,$$

$$\text{where } c - h \leq X \leq c + h,$$

since the standard error of the estimated treatment effect can be directly obtained from the regression.

While it is straightforward to estimate the linear regressions within a given window of width  $h$  around the cutoff point, a more difficult question is how to choose this bandwidth. In general, choosing a bandwidth in nonparametric estimation involves finding an optimal balance between precision and bias. On the one hand, using a larger bandwidth yields more precise estimates as more observations are available to estimate the regression. On the other hand, the linear specification is less likely to be accurate

<sup>30</sup> It has been shown in the statistics literature (Fan and Gijbels 1996) that a triangular kernel is optimal for estimating local linear regressions at the boundary. As it turns out, the only difference between regressions using a rectangular or a triangular kernel is that the latter puts more weight (in a linear way) on observations closer to the cutoff point. It thus involves estimating a weighted, as opposed to an unweighted, regression within a bin of width  $h$ . An

arguably more transparent way of putting more weight on observations close to the cutoff is simply to reestimate a model with a rectangular kernel using a smaller bandwidth. In practice, it is therefore simpler and more transparent to just estimate standard linear regressions (rectangular kernel) with a variety of bandwidths, instead of trying out different kernels corresponding to particular weighted regressions that are more difficult to interpret.

when a larger bandwidth is used, which can bias the estimate of the treatment effect. If the underlying conditional expectation is not linear, the linear specification will provide a close approximation over a limited range of values of  $X$  (small bandwidth), but an increasingly bad approximation over a larger range of values of  $X$  (larger bandwidth).

As the number of observations available increases, it becomes possible to use an increasingly small bandwidth since linear regressions can be estimated relatively precisely over even a small range of values of  $X$ . As it turns out, Hahn, Todd, and van der Klaauw (2001) show the optimal bandwidth is proportional to  $N^{-1/5}$ , which corresponds to a fairly slow rate of convergence to zero. For example, this suggests that the bandwidth should only be cut in half when the sample size increases by a factor of 32 ( $2^5$ ). For technical reasons, however, it would be preferable to undersmooth by shrinking the bandwidth at a faster rate requiring that  $h \propto N^{-\delta}$  with  $1/5 < \delta < 2/5$ , in order to eliminate an asymptotic bias that would remain when  $\delta = 1/5$ . In the presence of this bias, the usual formula for the variance of a standard least square estimator would be invalid.<sup>31</sup>

In practice however, knowing at what rate the bandwidth should shrink in the limit does not really help since only one actual sample with a given number of observations is

available. The importance of undersmoothing only has to do with a thought experiment of how much the bandwidth should shrink if the sample size were larger so that one obtains asymptotically correct standard errors, and does not help one choose a particular bandwidth in a particular sample.<sup>32</sup>

In the econometrics and statistics literature, two procedures are generally considered for choosing bandwidths. The first procedure consists of characterizing the optimal bandwidth in terms of the unknown joint distribution of all variables. The relevant components of this distribution can then be estimated and plugged into the optimal bandwidth function.<sup>33</sup> In the context of local linear regressions, Fan and Gijbels (1996) show this involves estimating a number of parameters including the curvature of the regression function. In practice, this can be done in two steps. In step one, a rule-of-thumb (ROT) bandwidth is estimated over the whole relevant data range. In step two, the ROT bandwidth is used to estimate the optimal bandwidth right at the cutoff point. For the rectangular kernel, the ROT bandwidth is given by:

$$h_{ROT} = 2.702 \left[ \frac{\tilde{\sigma}^2 R}{\sum_{i=1}^N \left\{ \tilde{m}''(x_i) \right\}^2} \right]^{1/5},$$

<sup>31</sup> See Hahn, Todd, and van der Klaauw (2001) and Imbens and Lemieux (2008) for more details.

<sup>32</sup> The main purpose of asymptotic theory is to use the large sample properties of estimators to approximate the distribution of an estimator in the real sample being considered. The issue is a little more delicate in a nonparametric setting where one also has to think about how fast the bandwidth should shrink when the sample size approaches infinity. The point about undersmoothing is simply that one unpleasant property of the optimal bandwidth is that it does not yield the convenient least squares variance formula. But this can be fixed by shrinking the bandwidth a little faster as the sample size goes to infinity. Strictly speaking, this is only a technical issue with how to perform the thought experiment (what happens when the sample size goes to infinity?) required for using asymptotics to

approximate the variance of the RD estimator in the actual sample. This does not say anything about what bandwidth should be chosen in the actual sample available for implementing the RD design.

<sup>33</sup> A well known example of this procedure is the “rule-of-thumb” bandwidth selection formula in kernel density estimation where an estimate of the dispersion in the variable (standard deviation or the interquartile range),  $\hat{\sigma}$ , is plugged into the formula  $0.9 \cdot \hat{\sigma} \cdot N^{-1/5}$ . Bernard W. Silverman (1986) shows that this formula is the closed form solution for the optimal bandwidth choice problem when both the actual density and the kernel are Gaussian. See also Imbens and Karthik Kalyanaraman (2009), who derive an optimal bandwidth for this RD setting, and propose a data-dependent method for choosing the bandwidth.

where  $\tilde{m}''(\cdot)$  is the second derivative (curvature) of an estimated regression of  $Y$  on  $X$ ,  $\tilde{\sigma}$  is the estimated standard error of the regression,  $R$  is the range of the assignment variable over which the regression is estimated, and the constant 2.702 is a number specific to the rectangular kernel. A similar formula can be used for the optimal bandwidth, except both the regression standard error and the average curvature of the regression function are estimated locally around the cutoff point. For the sake of simplicity, we only compute the ROT bandwidth in our empirical example. Following the common practice in studies using these bandwidth selection methods, we also use a quartic specification for the regression function.<sup>34</sup>

The second approach is based on a cross-validation procedure. In the case considered here, Jens Ludwig and Douglas Miller (2007) and Imbens and Lemieux (2008) have proposed a “leave one out” procedure aimed specifically at estimating the regression function at the boundary. The basic idea behind this procedure is the following. Consider an observation  $i$ . To see how well a linear regression with a bandwidth  $h$  fits the data, we run a regression with observation  $i$  left out and use the estimates to predict the value of  $Y$  at  $X = X_i$ . In order to mimic the fact that RD estimates are based on regression estimates at the boundary, the regression is estimated using only observations with values of  $X$  on the left of  $X_i$  ( $X_i - h \leq X < X_i$ ) for observations on the left of the cutoff point ( $X_i < c$ ). For observations on the right of the cutoff point ( $X_i \geq c$ ), the regression is estimated

using only observations with values of  $X$  on the right of  $X_i$  ( $X_i < X \leq X_i + h$ ).

Repeating the exercise for each and every observation, we get a whole set of predicted values of  $Y$  that can be compared to the actual values of  $Y$ . The optimal bandwidth can be picked by choosing the value of  $h$  that minimizes the mean square of the difference between the predicted and actual value of  $Y$ .

More formally, let  $\hat{Y}(X_i)$  represent the predicted value of  $Y$  obtained using the regressions described above. The cross-validation criterion is defined as

$$(9) \quad CV_Y(h) = \frac{1}{N} \sum_{i=1}^N (Y_i - \hat{Y}(X_i))^2$$

with the corresponding cross-validation choice for the bandwidth

$$h_{CV}^{opt} = \arg \min_h CV_Y(h).$$

Imbens and Lemieux (2008) discuss this procedure in more detail and point out that since we are primarily interested in what happens around the cutoff, it may be advisable to only compute  $CV_Y(h)$  for a subset of observations with values of  $X$  close enough to the cutoff point. For instance, only observations with values of  $X$  between the median value of  $X$  to the left and right of the cutoff could be used to perform the cross-validation.

The second rows of tables 2 and 3 show the local linear regression estimates of the treatment effect for the two outcome variables (share of vote and winning the next election). We show the estimates for a wide range of bandwidths going from the entire data range (bandwidth of 1 on each side of the cutoff) to a very small bandwidth of 0.01 (winning margins of one percent or less). As expected, the precision of the estimates declines quickly as we approach smaller and smaller bandwidths. Notice also that estimates based

<sup>34</sup> See McCrary and Heather Royer (2003) for an example where the bandwidth is selected using the ROT procedure (with a triangular kernel), and Stephen L. DesJardins and Brian P. McCall (2008) for an example where the second step optimal bandwidth is computed (for the Epanechnikov kernel). Both papers use a quartic regression function  $m(x) = \beta_0 + \beta_1 x + \dots + \beta_4 x^4$ , which means that  $m''(x) = 2\beta_2 + 6\beta_3 x + 12\beta_4 x^2$ . Note that the quartic regressions are estimated separately on both sides of the cutoff.

TABLE 2  
RD ESTIMATES OF THE EFFECT OF WINNING THE PREVIOUS ELECTION ON THE  
SHARE OF VOTES IN THE NEXT ELECTION

Bandwidth:	1.00	0.50	0.25	0.15	0.10	0.05	0.04	0.03	0.02	0.01
Polynomial of order:										
Zero	0.347 (0.003) [0.000]	0.257 (0.004) [0.000]	0.179 (0.004) [0.000]	0.143 (0.005) [0.000]	0.125 (0.006) [0.003]	0.096 (0.009) [0.047]	0.080 (0.011) [0.778]	0.073 (0.012) [0.821]	0.077 (0.014) [0.687]	0.088 (0.015)
One	0.118 (0.006) [0.000]	0.090 (0.007) [0.332]	0.082 (0.008) [0.423]	0.077 (0.011) [0.216]	0.061 (0.013) [0.543]	0.049 (0.019) [0.168]	0.067 (0.022) [0.436]	0.079 (0.026) [0.254]	0.098 (0.029) [0.935]	0.096 (0.028)
Two	0.052 (0.008) [0.000]	0.082 (0.010) [0.335]	0.069 (0.013) [0.371]	0.050 (0.016) [0.385]	0.057 (0.020) [0.458]	0.100 (0.029) [0.650]	0.101 (0.033) [0.682]	0.119 (0.038) [0.272]	0.088 (0.044) [0.943]	0.098 (0.045)
Three	0.111 (0.011) [0.001]	0.068 (0.013) [0.335]	0.057 (0.017) [0.524]	0.061 (0.022) [0.421]	0.072 (0.028) [0.354]	0.112 (0.037) [0.603]	0.119 (0.043) [0.453]	0.092 (0.052) [0.324]	0.108 (0.062) [0.915]	0.082 (0.063)
Four	0.077 (0.013) [0.014]	0.066 (0.017) [0.325]	0.048 (0.022) [0.385]	0.074 (0.027) [0.425]	0.103 (0.033) [0.327]	0.106 (0.048) [0.560]	0.088 (0.056) [0.497]	0.049 (0.067) [0.044]	0.055 (0.079) [0.947]	0.077 (0.063)
Optimal order of the polynomial	6	3	1	2	1	2	0	0	0	0
Observations	6,558	4,900	2,763	1,765	1,209	610	483	355	231	106

*Notes:* Standard errors in parentheses. *P*-values from the goodness-of-fit test in square brackets. The goodness-of-fit test is obtained by jointly testing the significance of a set of bin dummies included as additional regressors in the model. The bin width used to construct the bin dummies is 0.01. The optimal order of the polynomial is chosen using Akaike's criterion (penalized cross-validation).

on very wide bandwidths (0.5 or 1) are systematically larger than those for the smaller bandwidths (in the 0.05 to 0.25 range) that are still large enough for the estimates to be reasonably precise. A closer examination of figures 6–11 also suggests that the estimates for very wide bandwidths are larger than what the graphical evidence would suggest.<sup>35</sup> This is consistent with a substantial bias for

these estimates linked to the fact that the linear approximation does not hold over a wide data range. This is particularly clear in the case of winning the next election where figures 9–11 show some clear curvature in the regression function.

Table 4 shows the optimal bandwidth obtained using the ROT and cross-validation procedure. Consistent with the above

<sup>35</sup> In the case of the vote share, the quartic regression shown in figures 6–8 implies a treatment effect of 0.066, which is substantially smaller than the local linear regression estimates with a bandwidth of 0.5 (0.090) or 1 (0.118).

Similarly, the quartic regression shown in figures 9–11 for winning the next election implies a treatment effect of 0.375, which is again smaller than the local linear regression estimates with a bandwidth of 0.5 (0.566) or 1 (0.689).

TABLE 3  
RD ESTIMATES OF THE EFFECT OF WINNING THE PREVIOUS ELECTION ON  
PROBABILITY OF WINNING THE NEXT ELECTION

Bandwidth:	1.00	0.50	0.25	0.15	0.10	0.05	0.04	0.03	0.02	0.01
Polynomial of order:										
Zero	0.814	0.777	0.687	0.604	0.550	0.479	0.428	0.423	0.459	0.533
	(0.007)	(0.009)	(0.013)	(0.018)	(0.023)	(0.035)	(0.040)	(0.047)	(0.058)	(0.082)
	[0.000]	[0.000]	[0.000]	[0.000]	[0.011]	[0.201]	[0.852]	[0.640]	[0.479]	
One	0.689	0.566	0.457	0.409	0.378	0.378	0.472	0.524	0.567	0.453
	(0.011)	(0.016)	(0.026)	(0.036)	(0.047)	(0.073)	(0.083)	(0.099)	(0.116)	(0.157)
	[0.000]	[0.000]	[0.126]	[0.269]	[0.336]	[0.155]	[0.400]	[0.243]	[0.125]	
Two	0.526	0.440	0.375	0.391	0.450	0.607	0.586	0.589	0.440	0.225
	(0.016)	(0.023)	(0.039)	(0.055)	(0.072)	(0.110)	(0.124)	(0.144)	(0.177)	(0.246)
	[0.075]	[0.145]	[0.253]	[0.192]	[0.245]	[0.485]	[0.367]	[0.191]	[0.134]	
Three	0.452	0.370	0.408	0.435	0.472	0.566	0.547	0.412	0.266	0.172
	(0.021)	(0.031)	(0.052)	(0.075)	(0.096)	(0.143)	(0.166)	(0.198)	(0.247)	(0.349)
	[0.818]	[0.277]	[0.295]	[0.115]	[0.138]	[0.536]	[0.401]	[0.234]	[0.304]	
Four	0.385	0.375	0.424	0.529	0.604	0.453	0.331	0.134	0.050	0.168
	(0.026)	(0.039)	(0.066)	(0.093)	(0.119)	(0.183)	(0.214)	(0.254)	(0.316)	(0.351)
	[0.965]	[0.200]	[0.200]	[0.173]	[0.292]	[0.593]	[0.507]	[0.150]	[0.244]	
Optimal order of the polynomial	4	3	2	1	1	2	0	0	0	1
Observations	6,558	4,900	2,763	1,765	1,209	610	483	355	231	106

*Notes:* Standard errors in parentheses. *P*-values from the goodness-of-fit test in square brackets. The goodness-of-fit test is obtained by jointly testing the significance of a set of bin dummies included as additional regressors in the model. The bin width used to construct the bin dummies is 0.01. The optimal order of the polynomial is chosen using Akaike's criterion (penalized cross-validation).

discussion, the suggested bandwidth ranges from 0.14 to 0.28, which is large enough to get precise estimates, but narrow enough to minimize the bias. Two interesting patterns can be observed in table 4. First, the bandwidth chosen by cross-validation tends to be a bit larger than the one based on the rule-of-thumb. Second, the bandwidth is generally smaller for winning the next election (second column) than for the vote share (first column). This is particularly clear when the optimal bandwidth is constrained to be the same on both sides of the cutoff point. This is consistent with the graphical evidence

showing more curvature for winning the next election than the vote share, which calls for a smaller bandwidth to reduce the estimation bias linked to the linear approximation.

Figures 14 and 15 plot the value of the cross-validation function over a wide range of bandwidths. In the case of the vote share where the linearity assumption appears more accurate (figures 6–8), the cross-validation function is fairly flat over a sizable range of values for the bandwidth (from about 0.16 to 0.29). This range includes the optimal bandwidth suggested by cross-validation (0.282) at the upper end, and the ROT

TABLE 4  
OPTIMAL BANDWIDTH FOR LOCAL LINEAR REGRESSIONS,  
VOTING EXAMPLE

<b>A. Rule-of-thumb bandwidth</b>	Share of vote	Win next election
Left	0.162	0.164
Right	0.208	0.130
Both	0.180	0.141
<b>B. Optimal bandwidth selected by cross-validation</b>		
Left	0.192	0.247
Right	0.282	0.141
Both	0.282	0.172

*Notes:* Estimated over the range of the forcing variable (Democrat to Republican difference in the share of vote in the previous election) ranging between  $-0.5$  and  $0.5$ . See the text for a description of the rule-of-thumb and cross-validation procedures for choosing the optimal bandwidth.

bandwidth (0.180) at the lower end. In the case of winning the next election (figure 15), the cross-validation procedure yields a sharper suggestion of optimal bandwidth around 0.15, which is quite close to both the optimal cross-validation bandwidth (0.172) and the ROT bandwidth (0.141).

The main difference between the two outcome variables is that larger bandwidths start getting penalized more quickly in the case of winning the election (figure 15) than in the case of the vote share (figure 14). This is consistent with the graphical evidence in figures 6–11. Since the regression function looks fairly linear for the vote share, using larger bandwidths does not get penalized as much since they improve efficiency without generating much of a bias. But in the case of winning the election where the regression function exhibits quite a bit of curvature, larger bandwidths are quickly penalized for introducing an estimation bias. Since there is a real tradeoff between precision and bias, the cross-validation procedure is quite informative. By contrast, there is not much of a tradeoff when the regression function is more or less linear, which explains why the

optimal bandwidth is larger in the case of the vote share.

This example also illustrates the importance of first graphing the data before running regressions and trying to choose the optimal bandwidth. When the graph shows a more or less linear relationship, it is natural to expect different bandwidths to yield similar results and the bandwidth selection procedure not to be terribly informative. But when the graph shows substantial curvature, it is natural to expect the results to be more sensitive to the choice of bandwidth and that bandwidth selection procedures will play a more important role in selecting an appropriate empirical specification.

#### 4.3.2 *Order of Polynomial in Local Polynomial Modeling*

In the case of polynomial regressions, the equivalent to bandwidth choice is the choice of the order of the polynomial regressions. As in the case of local linear regressions, it is advisable to try and report a number of specifications to see to what extent the results are sensitive to the order of the polynomial. For the same reason



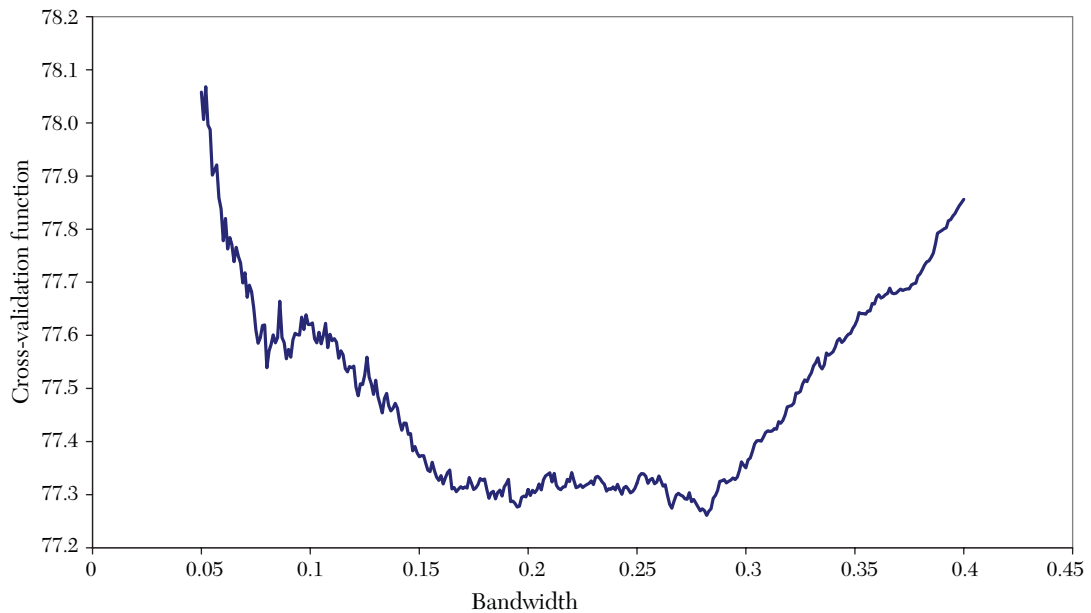


Figure 14. Cross-Validation Function for Local Linear Regression: Share of Vote at Next Election

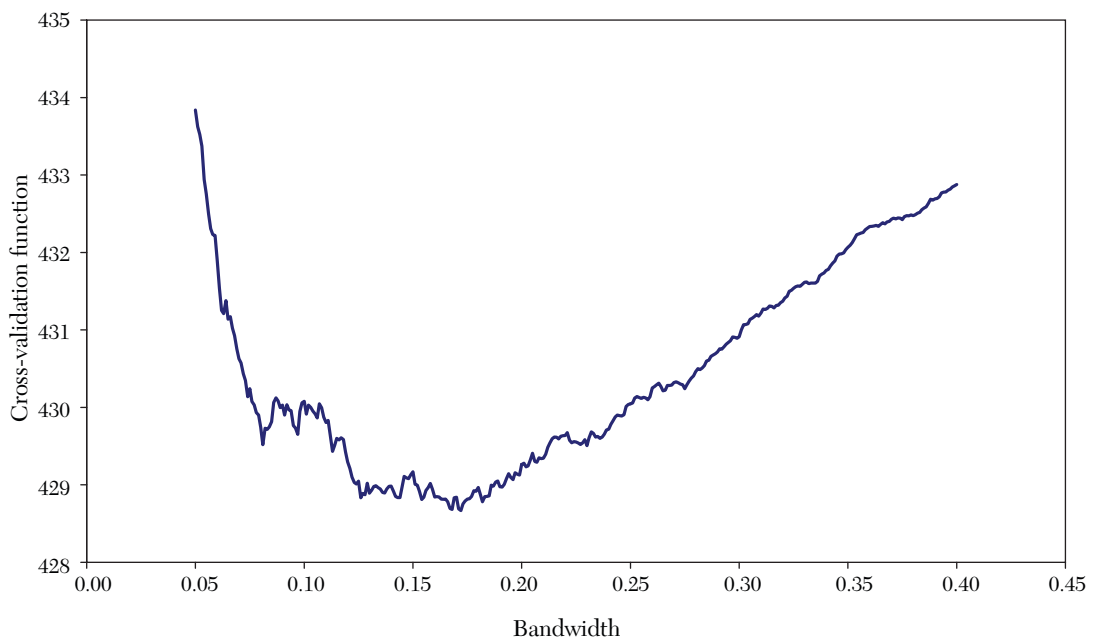


Figure 15. Cross-Validation Function for Local Linear Regression: Winning the Next Election

mentioned earlier, it is also preferable to estimate separate regressions on the two sides of the cutoff point.

The simplest way of implementing polynomial regressions and computing standard errors is to run a pooled regression. For example, in the case of a third order polynomial regression, we would have

$$\begin{aligned} Y = & \alpha_l + \tau D + \beta_{l1}(X - c) \\ & + \beta_{l2}(X - c)^2 + \beta_{l3}(X - c)^3 \\ & + (\beta_{r1} - \beta_{l1})D(X - c) \\ & + (\beta_{r2} - \beta_{l2})D(X - c)^2 \\ & + (\beta_{r3} - \beta_{l3})D(X - c)^3 + \varepsilon. \end{aligned}$$

While it is important to report a number of specifications to illustrate the robustness of the results, it is often useful to have some more formal guidance on the choice of the order of the polynomial. Starting with van der Klaauw (2002), one approach has been to use a generalized cross-validation procedure suggested in the literature on nonparametric series estimators.<sup>36</sup> One special case of generalized cross-validation (used by Dan A. Black, Jose Galdo, and Smith (2007a), for example), which we also use in our empirical example, is the well known Akaike information criterion (AIC) of model selection. In a regression context, the AIC is given by

$$AIC = N \ln(\hat{\sigma}^2) + 2p,$$

where  $\hat{\sigma}^2$  is the mean squared error of the regression, and  $p$  is the number of parameters in the regression model (order of the polynomial plus one for the intercept).

One drawback of this approach is that it does not provide a very good sense of how

a particular parametric model (say a cubic model) compares relative to a more general nonparametric alternative. In the context of the RD design, a natural nonparametric alternative is the set of unrestricted means of the outcome variable by bin used to graphically depict the data in section 4.1. Since one virtue of polynomial regressions is that they provide a smoothed version of the graph, it is natural to ask how well the polynomial model fits the unrestricted graph. A simple way of implementing the test is to add the set of bin dummies to the polynomial regression and jointly test the significance of the bin dummies. For example, in a first order polynomial model (linear regression), the test can be computed by including  $K - 2$  bin dummies  $B_k$ , for  $k = 2$  to  $K - 1$ , in the model

$$\begin{aligned} Y = & \alpha_l + \tau D + \beta_{l1}(X - c) \\ & + (\beta_{r1} - \beta_{l1})D(X - c) \\ & + \sum_{k=2}^{K-1} \phi_k B_k + \varepsilon \end{aligned}$$

and testing the null hypothesis that  $\phi_2 = \phi_3 = \dots = \phi_{K-1} = 0$ . Note that two of the dummies are excluded because of collinearity with the constant and the treatment dummy,  $D$ .<sup>37</sup> In terms of specification choice procedure, the idea is to add a higher order term to the polynomial until the bin dummies are no longer jointly significant.

Another major advantage of this procedure is that testing whether the bin dummies are significant turns out to be a test for

<sup>36</sup> See Blundell and Duncan (1998) for a more general discussion of series estimators.

<sup>37</sup> While excluding dummies for the two bins next to the cutoff point yields more interpretable results ( $\tau$  remains the treatment effect), the test is invariant to the excluded bin dummies, provided that one excluded dummy is on the left of the cutoff point and the other one is on the right (something standard regression packages will automatically do if all  $K$  dummies are included in the regression).

the presence of discontinuities in the regression function at points other than the cutoff point. In that sense, it provides a falsification test of the RD design by examining whether there are other unexpected discontinuities in the regression function at randomly chosen points (the bin thresholds). To see this, rewrite  $\sum_{k=1}^K \phi_k B_k$  as

$$\sum_{k=1}^K \phi_k B_k = \phi_1 + \sum_{k=2}^K (\phi_k - \phi_{k-1}) B_k^+,$$

where  $B_k^+ = \sum_{j=k}^K B_j$  is a dummy variable indicating that the observation is in bin  $k$  or above, i.e., that the assignment variable  $X$  is above the bin cutoff  $b_k$ . Testing whether all the  $\phi_k - \phi_{k-1}$  are equal to zero is equivalent to testing that all the  $\phi_k$  are the same (the above test), which amounts to testing that the regression line does not jump at the bin thresholds  $b_k$ .

Tables 2 and 3 show the estimates of the treatment effect for the voting example. For the sake of completeness, a wide range of bandwidths and specifications are presented, along with the corresponding  $p$ -values for the goodness-of-fit test discussed above (a bandwidth of 0.01 is used for the bins used to construct the test). We also indicate at the bottom of the tables the order of the polynomial selected for each bandwidth using the AIC. Note that the estimates of the treatment effect for the “order zero” polynomials are just comparisons of means on the two sides of the cutoff point, while the estimates for the “order one” polynomials are based on (local) linear regressions.

Broadly speaking, the goodness-of-fit tests do a very good job ruling out clearly misspecified models, like the zero order polynomials with large bandwidths that yield upward biased estimates of the treatment effect. Estimates from models that pass the goodness-of-fit test mostly fall in the 0.05–0.10 range for the vote share (table 2)

and 0.37–0.57 for the probability of winning (table 3). One set of models the goodness-of-fit test does not rule out, however, is higher order polynomial models with small bandwidths that tend to be imprecisely estimated as they “overfit” the data.

Looking informally at both the fit of the model (goodness-of-fit test) and the precision of the estimates (standard errors) suggests the following strategy: use higher order polynomials for large bandwidths of 0.50 and more, lower order polynomials for bandwidths between 0.05 and 0.50, and zero order polynomials (comparisons of means) for bandwidths of less than 0.05, since the latter specification passes the goodness-of-fit test for these very small bandwidths. Interestingly, this informal approach more or less corresponds to what is suggested by the AIC. In this specific example, it seems that given a specific bandwidth, the AIC provides reasonable suggestions on which order of the polynomial to use.

#### 4.3.3 Estimation in the Fuzzy RD Design

As discussed earlier, in both the “sharp” and the “fuzzy” RD designs, the probability of treatment jumps discontinuously at the cutoff point. Unlike the case of the sharp RD where the probability of treatment jumps from 0 to 1 at the cutoff, in the fuzzy RD case, the probability jumps by less than one. In other words, treatment is not solely determined by the strict cutoff rule in the fuzzy RD design. For example, even if eligibility for a treatment solely depends on a cutoff rule, not all the eligibles may get the treatment because of imperfect compliance. Similarly, program eligibility may be extended in some cases even when the cutoff rule is not satisfied. For example, while Medicare eligibility is mostly determined by a cutoff rule (age 65 or older), some disabled individuals under the age of 65 are also eligible.

Since we have already discussed the interpretation of estimates of the treatment effect

in a fuzzy RD design in section 3.4.1, here we just focus on estimation and implementation issues. The key message to remember from the earlier discussion is that, as in a standard IV framework, the estimated treatment effect can be interpreted as a local average treatment effect, provided monotonicity holds.

In the fuzzy RD design, we can write the probability of treatment as

$$\Pr(D = 1 | X = x) = \gamma + \delta T + g(x - c),$$

where  $T = 1[X \geq c]$  indicates whether the assignment variable exceeds the eligibility threshold  $c$ .<sup>38</sup> Note that the sharp RD is a special case where  $\gamma = 0$ ,  $g(\cdot) = 0$ , and  $\delta = 1$ . It is advisable to draw a graph for the treatment dummy  $D$  as a function of the assignment variable  $X$  using the same procedure discussed in section 4.1. This provides an informal way of seeing how large the jump in the treatment probability  $\delta$  is at the cutoff point, and what the functional form  $g(\cdot)$  looks like.

Since  $D = \Pr(D = 1 | X = x) + \nu$ , where  $\nu$  is an error term independent of  $X$ , the fuzzy RD design can be described by the two equation system:

$$(10) \quad Y = \alpha + \tau D + f(X - c) + \varepsilon,$$

$$(11) \quad D = \gamma + \delta T + g(X - c) + \nu.$$

Looking at these equations suggests estimating the treatment effect  $\tau$  by instrumenting the treatment dummy  $D$  with  $T$ . Note also that substituting the treatment determining equation into the outcome equation yields the reduced form

$$(12) \quad Y = \alpha_r + \tau_r T + f_r(X - c) + \varepsilon_r,$$

where  $\tau_r = \tau \delta$ . In this setting,  $\tau_r$  can be interpreted as an “intent-to-treat” effect.

Estimation in the fuzzy RD design can be performed using either the local linear regression approach or polynomial regressions. Since the model is exactly identified, 2SLS estimates are numerically identical to the ratio of reduced form coefficients  $\tau_r/\delta$ , provided that the same bandwidth is used for equations (11) and (12) in the local linear regression case, and that the same order of polynomial is used for  $g(\cdot)$  and  $f(\cdot)$  in the polynomial regression case.

In the case of the local linear regression, Imbens and Lemieux (2008) recommend using the same bandwidth in the treatment and outcome regression. When we are close to a sharp RD design, the function  $g(\cdot)$  is expected to be very flat and the optimal bandwidth to be very wide. In contrast, there is no particular reason to expect the function  $f(\cdot)$  in the outcome equation to be flat or linear, which suggests the optimal bandwidth would likely be less than the one for the treatment equation. As a result, Imbens and Lemieux (2008) suggest focusing on the outcome equation for selecting bandwidth, and then using the same bandwidth for the treatment equation.

While using a wider bandwidth for the treatment equation may be advisable on efficiency grounds, there are two practical reasons that suggest not doing so. First, using different bandwidths complicates the computation of standard errors since the outcome and treatment samples used for the estimation are no longer the same, meaning the usual 2SLS standard errors are no longer valid. Second, since it is advisable to explore the sensitivity of results to changes in the bandwidth, “trying out” separate bandwidths for each of the two equations would lead to a large and difficult-to-interpret number of specifications.

<sup>38</sup> Although the probability of treatment is modeled as a linear probability model here, this does not impose any restrictions on the probability model since  $g(x - c)$  is unrestricted on both sides of the cutoff  $c$ , while  $T$  is a dummy variable. So there is no need to write the model using a probit or logit formulation.

The same broad arguments can be used in the case of local polynomial regressions. In principle, a lower order of polynomial could be used for the treatment equation (11) than for the outcome equation (12). In practice, however, it is simpler to use the same order of polynomial and just run 2SLS (and use 2SLS standard errors).

#### 4.3.4 How to Compute Standard Errors?

As discussed above, for inference in the sharp RD case we can use standard least squares methods. As usual, it is recommended to use heteroskedasticity-robust standard errors (Halbert White 1980) instead of standard least squares standard errors. One additional reason for doing so in the RD case is to ensure the standard error of the treatment effect is the same when either a pooled regression or two separate regressions on each side of the cutoff are used to compute the standard errors. As we just discussed, it is also straightforward to compute standard errors in the fuzzy RD case using 2SLS methods, although robust standard errors should also be used in this case. Imbens and Lemieux (2008) propose an alternative way of computing standard errors in the fuzzy RD case, but nonetheless suggest using 2SLS standard errors readily available in econometric software packages.

One small complication that arises in the nonparametric case of local linear regressions is that the usual (robust) standard errors from least squares are only valid provided that  $h \propto N^{-\delta}$  with  $1/5 < \delta < 2/5$ . As we mentioned earlier, this is not a very important point in practice, and the usual standard errors can be used with local linear regressions.

### 4.4 Implementing Empirical Tests of RD Validity and Using Covariates

In this part of the section, we describe how to implement tests of the validity of the RD design and how to incorporate covariates in the analysis.

#### 4.4.1 Inspection of the Histogram of the Assignment Variable

Recall that the underlying assumption that generates the local random assignment result is that each individual has imprecise control over the assignment variable, as defined in section 3.1.1. We cannot test this directly (since we will only observe one observation on the assignment variable per individual at a given point in time), but an intuitive test of this assumption is whether the *aggregate* distribution of the assignment variable is discontinuous, since a mixture of individual-level continuous densities is itself a continuous density.

McCrary (2008) proposes a simple two-step procedure for testing whether there is a discontinuity in the density of the assignment variable. In the first step, the assignment variable is partitioned into equally spaced bins and frequencies are computed within those bins. The second step treats the frequency counts as a dependent variable in a local linear regression. See McCrary (2008), who adopts the nonparametric framework for asymptotics, for details on this procedure for inference.

As McCrary (2008) points out, this test can fail to detect a violation of the RD identification condition if for some individuals there is a “jump” up in the density, offset by jumps “down” for others, making the aggregate density continuous at the threshold. McCrary (2008) also notes it is possible the RD estimate could remain unbiased, even when there is important manipulation of the assignment variable causing a jump in the density. It should be noted, however, that in order to rely upon the RD estimate as unbiased, one needs to invoke other identifying assumptions and cannot rely upon the mild conditions we focus on in this article.<sup>39</sup>

<sup>39</sup> McCrary (2008) discusses an example where students who barely fail a test are given extra points so that they barely pass. The RD estimator can remain unbiased if one assumes that those who are given extra points were chosen randomly from those who barely failed.

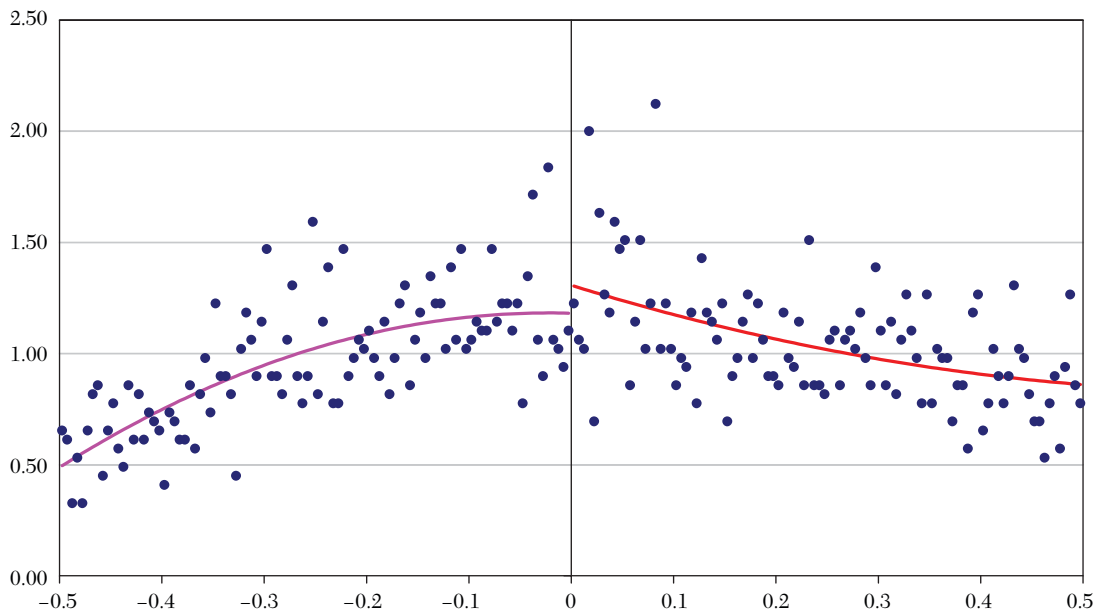


Figure 16. Density of the Forcing Variable (Vote Share in Previous Election)

One of the examples McCrary uses for his test is the voting model of Lee (2008) that we used in the earlier empirical examples. Figure 16 shows a graph of the raw densities computed over bins with a bandwidth of 0.005 (200 bins in the graph), along with a smooth second order polynomial model. Consistent with McCrary (2008), the graph shows no evidence of discontinuity at the cutoff. McCrary also shows that a formal test fails to reject the null hypothesis of no discontinuity in the density at the cutoff.

#### 4.4.2 *Inspecting Baseline Covariates*

An alternative approach for testing the validity of the RD design is to examine whether the observed baseline covariates are “locally” balanced on either side of the threshold, which should be the case if the treatment indicator is locally randomized.

A natural thing to do is conduct both a graphical RD analysis and a formal

estimation, replacing the dependent variable with each of the observed baseline covariates in  $W$ . A discontinuity would indicate a violation in the underlying assumption that predicts local random assignment. Intuitively, if the RD design is valid, we *know* that the treatment variable cannot influence variables determined prior to the realization of the assignment variable and treatment assignment; if we observe it does, something is wrong in the design.

If there are many covariates in  $W$ , even abstracting from the possibility of misspecification of the functional form, some discontinuities will be statistically significant by random chance. It is thus useful to combine the multiple tests into a single test statistic to see if the data are consistent with no discontinuities for any of the observed covariates. A simple way to do this is with a Seemingly Unrelated Regression (SUR) where each equation represents a different baseline



covariate, and then perform a  $\chi^2$  test for the discontinuity gaps in all questions being zero. For example, supposing the underlying functional form is linear, one would estimate the system

$$\begin{aligned} w_1 &= \alpha_1 + D\beta_1 + X\gamma_1 + \varepsilon_1 \\ &\vdots \\ w_K &= \alpha_K + D\beta_K + X\gamma_K + \varepsilon_K \end{aligned}$$

and test the hypothesis that  $\beta_1, \dots, \beta_K$  are jointly equal to zero, where we allow the  $\varepsilon$ 's to be correlated across the  $K$  equations. Alternatively, one can simply use the OLS estimates of  $\beta_1, \dots, \beta_K$  obtained from a “stacked” regression where all the equations for each covariate are pooled together, while  $D$  and  $X$  are fully interacted with a set of  $K$  dummy variables (one for each covariate  $w_k$ ). Correlation in the error terms can then be captured by clustering the standard errors on individual observations (which appear in the stacked dataset  $K$  times). Under the null hypothesis of no discontinuities, the Wald test statistic  $N\hat{\beta}'\hat{V}^{-1}\hat{\beta}$  (where  $\hat{\beta}$  is the vector of estimates of  $\beta_1, \dots, \beta_K$ , and  $\hat{V}$  is the cluster-and-heteroskedasticity consistent estimate of the asymptotic variance of  $\hat{\beta}$ ) converges in distribution to a  $\chi^2$  with  $K$  degrees of freedom.

Of course, the importance of functional form for RD analysis means a rejection of the null hypothesis tells us either that the underlying assumptions for the RD design are invalid, or that at least some of the equations are sufficiently misspecified and too restrictive, so that nonzero discontinuities are being estimated, even though they do not exist in the population. One could use the parametric specification tests discussed earlier for each of the individual equations to see if misspecification of the functional form is an important problem. Alternatively, the test could be performed only for observations

within a narrower window around the cut-off point, such as the one suggested by the bandwidth selection procedures discussed in section 4.3.1.

Figure 17 shows the RD graph for a baseline covariate, the Democratic vote share in the election prior to the one used for the assignment variable (four years prior to the current election). Consistent with Lee (2008), there is no indication of a discontinuity at the cutoff. The actual RD estimate using a quartic model is  $-0.004$  with a standard error of 0.014. Very similar results are obtained using winning the election as the outcome variable instead (RD estimate of  $-0.003$  with a standard error of 0.017).

#### 4.5 Incorporating Covariates in Estimation

If the RD design is valid, the other use for the baseline covariates is to reduce the sampling variability in the RD estimates. We discuss two simple ways to do this. First, one can “residualize” the dependent variable—subtract from  $Y$  a prediction of  $Y$  based on the baseline covariates  $W$ —and then conduct an RD analysis on the residuals. Intuitively, this procedure nets out the portion of the variation in  $Y$  we could have predicted using the predetermined characteristics, making the question whether the treatment variable can explain the remaining residual variation in  $Y$ . The important thing to keep in mind is that if the RD design is valid, this procedure provides a consistent estimate of the same RD parameter of interest. Indeed, any combination of covariates can be used, and abstracting from functional form issues, the estimator will be consistent for the same parameter, as discussed above in equation (4). Importantly, this two-step approach also allows one to perform a graphical analysis of the residual.

To see this more formally in the parametric case, suppose one is willing to assume that the expectation of  $Y$  as a function of  $X$  is a polynomial, and the expectation of each

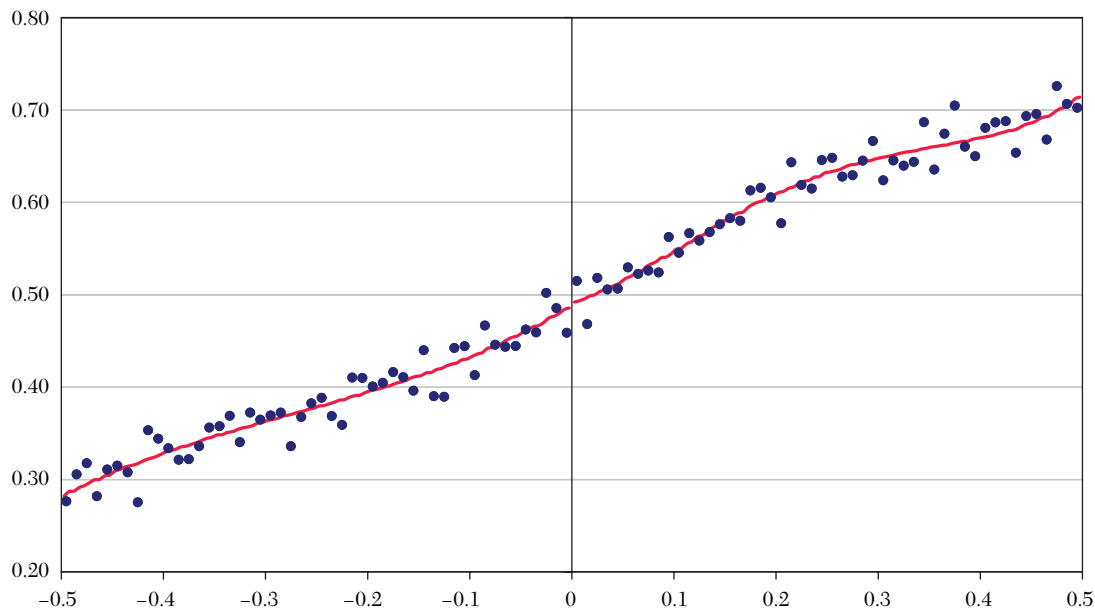


Figure 17. Discontinuity in Baseline Covariate (Share of Vote in Prior Election)

element of  $W$  is also a polynomial function of  $X$ . This implies

$$(13) \quad Y = D\tau + \tilde{X}\tilde{\gamma} + \varepsilon$$

$$W = \tilde{X}\delta + u,$$

where  $\tilde{X}$  is a vector of polynomial terms in  $X$ ,  $\delta$  and  $u$  are of conformable dimension, and  $\varepsilon$  and  $u$  are by construction orthogonal to  $D$  and  $\tilde{X}$ . It follows that

$$\begin{aligned} (14) \quad Y - W\pi &= D\tau + \tilde{X}\tilde{\gamma} - W\pi + \varepsilon \\ &= D\tau + \tilde{X}(\tilde{\gamma} - \delta\pi) - u\pi + \varepsilon \\ &= D\tau + \tilde{X}\gamma - u\pi + \varepsilon. \end{aligned}$$

This makes clear that a regression of  $Y - W\pi$  on  $D$  and  $\tilde{X}$  will give consistent estimates of  $\tau$  and  $\gamma$ . This is true no matter the value of  $\pi$ . Furthermore, as long as the specification in

equation (13) is correct, in computing estimated standard errors in the second step, one can ignore the fact that the first step was estimated.<sup>40</sup>

The second approach—which uses the same assumptions implicit in equation (13)—is to simply add  $W$  to the regression. While this may seem to impose linearity in how  $W$

<sup>40</sup>The two-step procedure solves the sample analogue to the following set of moment equations:

$$\begin{aligned} E\left[\begin{pmatrix} D \\ \tilde{X} \end{pmatrix}(Y - W\pi_0 - D\tau - \tilde{X}\gamma)\right] &= 0 \\ E[W(Y - W\pi_0)] &= 0. \end{aligned}$$

As noted above, the second-step estimator for  $\tau$  is consistent for any value of  $\pi$ . Letting  $\theta \equiv \begin{pmatrix} \tau \\ \gamma \end{pmatrix}$ , and using the notation of Whitney K. Newey and Daniel L. McFadden (1994), this means that the first row of  $\nabla_{\pi}\theta(\pi_0) = -G_{\theta}^{-1}G_{\pi}$  is a row of zeros. It follows from their theorem 6.1, with the 1,1 element of  $V$  being the asymptotic variance of the estimator for  $\tau$ , that the 1,1 element of  $V$  is equal to the 1,1 element of  $G_{\theta}^{-1}E[g(z)g(z)']G_{\theta}^{-1}$ , which is the asymptotic covariance matrix of the second stage estimator ignoring estimation in the first step.

affects  $Y$ , it can be shown that the inclusion of these regressors will not affect the consistency of the estimator for  $\tau$ .<sup>41</sup> The advantage of this second approach is that under these functional form assumptions and with homoskedasticity, the estimator for  $\tau$  is guaranteed to have a lower asymptotic variance.<sup>42</sup> By contrast, the “residualizing” approach can in some cases *raise* standard errors.<sup>43</sup>

The disadvantage of solely relying upon this second approach, however, is that it does not help distinguish between an inappropriate functional form and discontinuities in  $W$ , as both could potentially cause the estimates of  $\tau$  to change significantly when  $W$  is included.<sup>44</sup> On the other hand, the “residualizing” approach allows one to examine how well the residuals fit the assumed order of polynomial (using, for example, the methods described in subsection 4.3.2). If it does not fit well, then it suggests that the use of that order of polynomial with the second approach is not justified. Overall, one sensible approach is to directly enter the covariates, but then to use the “residualizing” approach as an additional diagnostic check on whether the assumed order of the polynomial is justified.

As discussed earlier, an alternative approach to estimating the discontinuity

involves limiting the estimation to a window of data around the threshold and using a linear specification within that window.<sup>45</sup> We note that as the neighborhood shrinks, the true expectation of  $W$  conditional on  $X$  will become closer to being linear, and so equation (13) (with  $\tilde{X}$  containing only the linear term) will become a better approximation.

For the voting example used throughout this paper, Lee (2008) shows that adding a set of covariates essentially has no impact on the RD estimates in the model where the outcome variable is winning the next election. Doing so does not have a large impact on the standard errors either, at least up to the third decimal. Using the procedure based on residuals instead actually slightly increases the second step standard errors—a possibility mentioned above. Therefore in this particular example, the main advantage of using baseline covariates is to help establish the validity of the RD design, as opposed to improving the efficiency of the estimators.

#### 4.6 A Recommended “Checklist” for Implementation

Below is a brief summary of our recommendations for the analysis, presentation, and estimation of RD designs.

<sup>41</sup> To see this, rewrite equation (13) as  $Y = D\tau + \tilde{X}\tilde{\gamma} + Da + \tilde{X}b + Wc + \mu$ , where  $a, b, c$ , and  $\mu$  are linear projection coefficients and the residual from a population regression  $\varepsilon$  on  $D, \tilde{X}$ , and  $W$ . If  $a = 0$ , then adding  $W$  will not affect the coefficient on  $D$ . This will be true—applying the Frisch–Waugh theorem—when the covariance between  $\varepsilon$  and  $D - \tilde{X}d - We$  (where  $d$  and  $e$  are coefficients from projecting  $D$  on  $\tilde{X}$  and  $W$ ) is zero. This will be true when  $e = 0$ , because  $\varepsilon$  is by assumption orthogonal to both  $D$  and  $\tilde{X}$ . Applying the Frisch–Waugh theorem again,  $e$  is the coefficient obtained by regressing  $D$  on  $W - \tilde{X}\delta \equiv u$ ; by assumption  $u$  and  $D$  are uncorrelated, so  $e = 0$ .

<sup>42</sup> The asymptotic variance for the least squares estimator (without including  $W$ ) of  $\tau$  is given by the ratio  $V(\varepsilon)/V(\tilde{D})$  where  $\tilde{D}$  is the residual from the population regression of  $D$  on  $\tilde{X}$ . If  $W$  is included, then the least squares estimator has asymptotic variance of  $\sigma^2/V(D - \tilde{X}d - We)$ , where  $\sigma^2$  is the variance of the error when  $W$  is included, and  $d$  and  $e$  are coefficients from projecting  $D$  on  $\tilde{X}$  and  $W$ .  $\sigma^2$  cannot exceed  $V(\varepsilon)$ , and as shown in

the footnote above,  $e = 0$ , and thus  $D - \tilde{X}d = \tilde{D}$ , implying that the denominator in the ratio does not change when  $W$  is included.

<sup>43</sup> From equation (14), the regression error variance will increase if  $V(\varepsilon - u\pi) > V(\varepsilon) \Leftrightarrow V(u\pi) - 2C(\varepsilon, u\pi) > 0$ , which will hold when, for example,  $\varepsilon$  is orthogonal to  $u$  and  $\pi$  is nonzero.

<sup>44</sup> If the true equation for  $W$  contains more polynomial terms than  $\tilde{X}$ , then  $e$ , as defined in the preceding footnotes (the coefficient obtained by regressing  $D$  on the residual from projecting  $W$  on  $\tilde{X}$ ), will not be zero. This implies that including  $W$  will generally lead to inconsistent estimates of  $\tau$ , and may cause the asymptotic variance to increase (since  $V(D - \tilde{X}d - We) \leq V(\tilde{D})$ ).

<sup>45</sup> And we have noted that one can justify this by assuming that in that specified neighborhood, the underlying function is in fact linear, and make standard parametric inferences. Or one can conduct a nonparametric inference approach by making assumptions about the rate at which the bandwidth shrinks as the sample size grows.

1. **To assess the possibility of manipulation of the assignment variable, show its distribution.** The most straightforward thing to do is to present a histogram of the assignment variable, using a fixed number of bins. The bin widths should be as small as possible, without compromising the ability to visually see the overall shape of the distribution. For an example, see figure 16. The bin-to-bin jumps in the frequencies can provide a sense in which any jump at the threshold is “unusual.” For this reason, we recommend *against* plotting a smooth function comprised of kernel density estimates. A more formal test of a discontinuity in the density can be found in McCrary (2008).
2. **Present the main RD graph using binned local averages.** As with the histogram, we recommend using a fixed number of nonoverlapping bins, as described in subsection 4.1. For examples, see figures 6–11. The nonoverlapping nature of the bins for the local averages is important; we recommend *against* simply presenting a continuum of nonparametric estimates (with a single break at the threshold), as this will naturally tend to give the impression of a discontinuity even if there does not exist one in the population. We recommend reporting bandwidths implied by cross-validation, as well as the range of widths that are not statistically rejected in favor of strictly less restrictive alternatives (for an example, see table 1). We recommend generally “undersmoothing,” while at the same time avoiding “too narrow” bins that produce a scatter of data points, from which it is difficult to see the shape of the underlying function. Indeed, we recommend *against* simply plotting the raw data without a minimal amount of local averaging.
3. **Graph a benchmark polynomial specification.** Superimpose onto the graph the predicted values from a low-order polynomial specification (see figures 6–11). One can often informally assess by comparing the two functions whether a simple polynomial specification is an adequate summary of the data. If the local averages represent the most flexible “nonparametric” representation of the function, the polynomial represents a “best case” scenario in terms of the variance of the RD estimate, since if the polynomial specification is correct, under certain conditions, the least squares estimator is efficient.
4. **Explore the sensitivity of the results to a range of bandwidths, and a range of orders to the polynomial.** For an example, see tables 2 and 3. The tables should be supplemented with information on the implied rule-of-thumb bandwidth and cross-validation bandwidths for local linear regression (as in table 4), as well as the AIC-implied optimal order of the polynomial. The specification tests that involve adding bin dummies to the polynomial specifications can help rule out overly restrictive specifications. Among all the specifications that are not rejected by the bin-dummy tests, and among the polynomial orders recommended by the AIC, and the estimates given by both rule of thumb and CV bandwidths, report a “typical” point estimate and a range of point estimates. A useful graphical device for illustrating the sensitivity of the results to bandwidths is to plot the local linear discontinuity estimate against a continuum of bandwidths (within a range of bandwidths that are not ruled out by the above specification tests). For an example

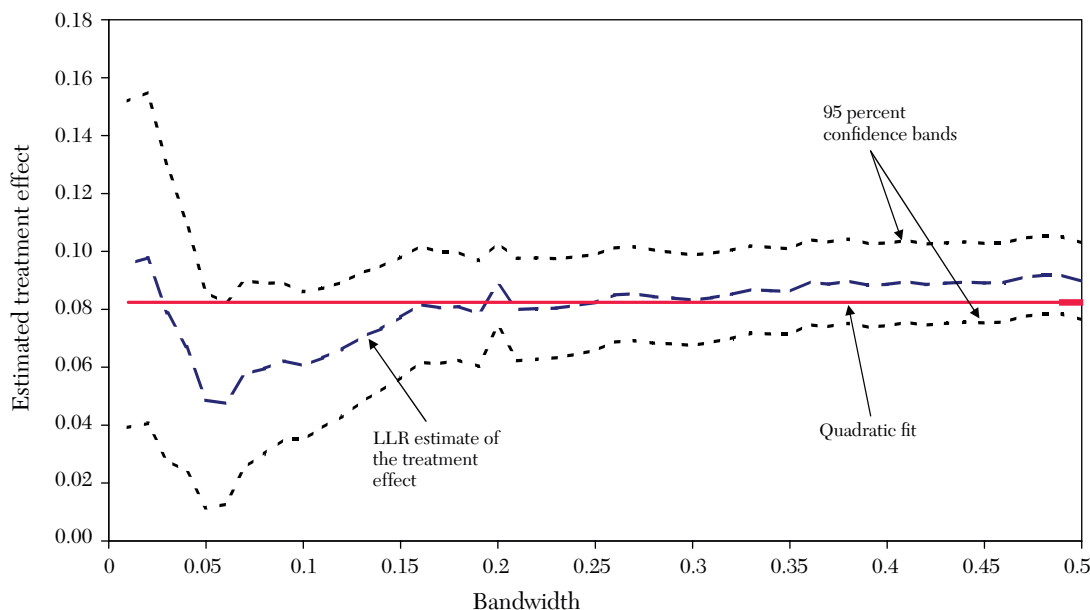


Figure 18. Local Linear Regression with Varying Bandwidth: Share of Vote at Next Election

of such a presentation, see the online appendix to Card, Carlos Dobkin, and Nicole Maestas (2009), and figure 18.

5. **Conduct a parallel RD analysis on the baseline covariates.** As discussed earlier, if the assumption that there is no precise manipulation or sorting of the assignment variable is valid, then there should be no discontinuities in variables that are determined prior to the assignment. See figure 17, for example.
6. **Explore the sensitivity of the results to the inclusion of baseline covariates.** As discussed above, the inclusion of baseline covariates—no matter how highly correlated they are with the outcome—should not affect the estimated discontinuity, if the no-manipulation

assumption holds. If the estimates do change in an important way, it may indicate a potential sorting of the assignment variable that may be reflected in a discontinuity in one or more of the baseline covariates. In terms of implementation, in subsection 4.5, we suggest simply including the covariates directly, after choosing a suitable order of polynomial. Significant changes in the estimated effect or increases in the standard errors may be an indication of a misspecified functional form. Another check is to perform the “residualizing” procedure suggested there, to see if that same order of polynomial provides a good fit for the residuals, using the specification tests from point 4.

We recognize that, due to space limitations, researchers may be unable to present every

permutation of presentation (e.g., points 2–4 for every one of 20 baseline covariates) within a published article. Nevertheless, we do believe that documenting the sensitivity of the results to these array of tests and alternative specifications—even if they only appear in unpublished, online appendices—is an important component of a thorough RD analysis.

### 5. *Special Cases*

In this section, we discuss how the RD design can be implemented in a number of specific cases beyond the one considered up to this point (that of a single cross-section with a continuous assignment variable).

#### 5.1 *Discrete Assignment Variable and Specification Errors*

Up until now, we have assumed the assignment variable was continuous. In practice, however,  $X$  is often discrete. For example, age or date of birth are often only available at a monthly, quarterly, or annual frequency level. Studies relying on an age-based cutoff thus typically rely on discrete values of the age variable when implementing an RD design.

Lee and Card (2008) study this case in detail and make a number of important points. First, with a discrete assignment variable, it is not possible to compare outcomes in very narrow bins just to the right and left of the cutoff point. Consequently, one must use regressions to estimate the conditional expectation of the outcome variable at the cutoff point by extrapolation. As discussed in section 4, however, in practice we always extrapolate to some extent, even in the case of a continuous assignment variable. So the fact we must do so in the case of a discrete assignment variable does not introduce particular complications from an econometric point of view, provided the discrete variable is not too coarsely distributed.

Additionally, the various estimation and graphing techniques discussed in section 4 can readily be used in the case of a discrete assignment variable. For instance, as with a continuous assignment variable, either local linear regressions or polynomial regressions can be used to estimate the jump in the regression function at the cutoff point. Furthermore, the discreteness of the assignment variable simplifies the problem of bandwidth choice when graphing the data since, in most cases, one can simply compute and graph the mean of the outcome variable for each value of the discrete assignment variable. The fact that the variable is discrete also provides a natural way of testing whether the regression model is well specified by comparing the fitted model to the raw dispersion in mean outcomes at each value of the assignment variable. Lee and Card (2008) show that, when errors are homoskedastic, the model specification can be tested using the standard goodness-of-fit statistic

$$G \equiv \frac{(ESS_R - ESS_{UR})/(J - K)}{ESS_{UR}/(N - J)},$$

where  $ESS_R$  is the estimated sum of squares of the restricted model (e.g., low order polynomial), while  $ESS_{UR}$  is the estimated sum of squares of the unrestricted model where a full set of dummies (for each value of the assignment variable) are included. In this unrestricted model, the fitted regression corresponds to the mean outcome in each cell.  $G$  follows a  $F(J - K, N - J)$  distribution where  $J$  is the number of values taken by the assignment variables and  $K$  is the number of parameters of the restricted model.

This test is similar to the test in section 4 where we suggested including a full set of bin dummies in the regression model and testing whether the bin dummies were jointly significant. The procedure is even



simpler here, as bin dummies are replaced by dummies for each value of the discrete assignment variable. In the presence of heteroskedasticity, the goodness-of-fit test can be computed by estimating the model and testing whether a set of dummies for each value of the discrete assignment variable are jointly significant. In that setting, the test statistic follows a chi-square distribution with  $J - K$  degrees of freedom.

In Lee and Card (2008), the difference between the true conditional expectation  $E[Y|X = x]$  and the estimated regression function forming the basis of the goodness-of-fit test is interpreted as a random specification error that introduces a group structure in the standard errors. One way of correcting the standard errors for group structure is to run the model on cell means.<sup>46</sup> Another way is to “cluster” the standard errors. Note that in this setting, the goodness-of-fit test can also be interpreted as a test of whether standard errors should be adjusted for the group structure. In practice, it is nonetheless advisable to either group the data or cluster the standard errors in micro-data models irrespective of the results of the goodness-of-fit test. The main purpose of the test should be to help choose a reasonably accurate regression model.

Lee and Card (2008) also discuss a number of issues including what to do when specification errors under treatment and control are correlated, and how to possibly adjust the RD estimates in the presence of specification errors. Since these issues are beyond the scope of this paper, interested readers should consult Lee and Card (2008) for more detail.

<sup>46</sup> When the discrete assignment variable—and the “treatment” dummy solely dependent on this variable—is the only variable used in the regression model, standard OLS estimates will be numerically equivalent to those obtained by running a weighted regression on the cell means, where the weights are the number of observations (or the sum of individual weights) in each cell.

## 5.2 Panel Data and Fixed Effects

In some situations, the RD design will be embedded in a panel context, whereby period by period, the treatment variable is determined according to the realization of the assignment variable  $X$ . Again, it seems natural to propose the model

$$Y_{it} = D_{it}\tau + f(X_{it}; \gamma) + a_i + \varepsilon_{it}$$

(where  $i$  and  $t$  denote the individuals and time, respectively), and simply estimate a fixed effects regression by including individual dummy variables to capture the unit-specific error component,  $a_i$ . It is important to note, however, that including fixed effects is unnecessary for identification in an RD design. This sharply contrasts with a more traditional panel data setting where the error component  $a_i$  is allowed to be correlated with the observed covariates, including the treatment variable  $D_{it}$ , in which case including fixed effects is essential for consistently estimating the treatment effect  $\tau$ .

An alternative is to simply conduct the RD analysis for the entire pooled-cross-section dataset, taking care to account for within-individual correlation of the errors over time using clustered standard errors. The source of identification is a comparison between those just below and above the threshold, and can be carried out with a single cross-section. Therefore, imposing a specific dynamic structure introduces more restrictions without any gain in identification.

Time dummies can also be treated like any other baseline covariate. This is apparent by applying the main RD identification result: conditional on what period it is, we are assuming the density of  $X$  is continuous at the threshold and, hence, conditional on  $X$ , the probability of an individual observation coming from a particular period is also continuous.

We note that it becomes a little bit more awkward to use the justification proposed in subsection 4.5 for directly including dummies for individuals and time periods on the right hand side of the regression. This is because the assumption would have to be that the probability that an observation belonged to each individual (or the probability that an observation belonged to each time period) is a polynomial function in  $X$  and, strictly speaking, nontrivial polynomials are not bounded between 0 and 1.

A more practical concern is that inclusion of individual dummy variables may lead to an *increase* in the variance of the RD estimator for another reason. If there is little “within-unit” variability in treatment status, then the variation in the main variable of interest (treatment after partialling out the individual heterogeneity) may be quite small. Indeed, seeing standard errors rise when including fixed effects may be an indication of a misspecified functional form.<sup>47</sup>

Overall, since the RD design is still valid ignoring individual or time effects, then the only rationale for including them is to reduce sampling variance. But there are other ways to reduce sampling variance by exploiting the structure of panel data. For instance, we can treat the lagged dependent variable  $Y_{it-1}$  as simply another baseline covariate in period  $t$ . In cases where  $Y_{it}$  is highly persistent over time,  $Y_{it-1}$  may well be a very good predictor and has a very good chance of reducing the sampling error. As we have also discussed earlier, looking at possible discontinuities in baseline covariates is an important test of the validity of the RD design. In this particular case, since  $Y_{it}$  can be highly correlated with  $Y_{it-1}$ , finding a discontinuity in  $Y_{it}$  but not in  $Y_{it-1}$  would be a strong piece of evidence supporting the validity of the RD design.

In summary, one can utilize the panel nature of the data by conducting an RD analysis on the entire dataset, using lagged variables as baseline covariates for inclusion as described in subsection 4.5. The primary caution in doing this is to ensure that for each period, the included covariates are the variables determined *prior* to the present period’s realization of  $X_{it}$ .

## 6. *Applications of RD Designs in Economics*

In what areas has the RD design been applied in economic research? Where do discontinuous rules come from and where might we expect to find them? In this section, we provide some answers to these questions by providing a survey of the areas of applied economic research that have employed the RD design. Furthermore, we highlight some examples from the literature that illustrate what we believe to be the most important elements of a compelling, “state-of-the-art” implementation of RD.

### 6.1 *Areas of Research Using RD*

As we suggested in the introduction, the notion that the RD design has limited applicability to a few specific topics is inconsistent with our reading of existing applied research in economics. Table 5 summarizes our survey of empirical studies on economic topics that have utilized the RD design. In compiling this list, we searched economics journals as well as listings of working papers from economists, and chose any study that recognized the potential use of an RD design in their given setting. We also included some papers from non-economists when the research was closely related to economic work.

Even with our undoubtedly incomplete compilation of over sixty studies, table 5 illustrates that RD designs have been applied in many different contexts. Table 5 summarizes the context of the study, the outcome

<sup>47</sup> See the discussion in section 4.5.

TABLE 5  
REGRESSION DISCONTINUITY APPLICATIONS IN ECONOMICS

Study	Context	Outcome(s)	Treatment(s)	Assignment variable(s)
<b>Education</b>				
Angrist and Lavy (1999)	Public Schools (Grades 3–5), Israel	Test scores	Class size	Student enrollment
Asadullah (2005)	Secondary schools, Bangladesh	Examination pass rate	Class size	Student enrollment
Bayer, Ferreira, and McMillan (2007)	Valuation of schools and neighborhoods, Northern California	Housing prices, school test scores, demographic characteristics	Inclusion in school attendance region	Geographic location
Black (1999)	Valuation of school quality, Massachusetts	Housing prices	Inclusion in school attendance region	Geographic location
Canton and Blom (2004)	Higher education, Mexico	University enrollment, GPA, Part-time employment, Career choice	Student loan receipt	Economic need index
Cascio and Lewis (2006)	Teenagers, United States	AFQT test scores	Age at school entry	Birthdate
Chay, McEwan, and Urquiola (2005)	Elementary schools, Chile	Test scores	Improved infrastructure, more resources	School averages of test scores
Chiang (2009)	School accountability, Florida	Test scores, education quality	Threat of sanctions	School's assessment score
Clark (2009)	High schools, U.K.	Examination pass rates	“Grant maintained” school status	Vote share
Ding and Lehrer (2007)	Secondary school students, China	Academic achievement (Test scores)	School assignment	Entrance examination scores
Figlio and Kenny (2009)	Elementary and middle schools, Florida	Private donations to school	D or F grade in school performance measure	Grading points
Goodman (2008)	College enrollment, Massachusetts	School choice	Scholarship offer	Test scores
Goolsbee and Guryan (2006)	Public schools, California	Internet access in classrooms, test scores	E-Rate subsidy amount	Proportion of students eligible for lunch program
Guryan (2001)	State-level equalization: elementary, middle schools, Massachusetts	Spending on schools, test scores	State education aid	Relative average property values
Hoxby (2000)	Elementary schools, Connecticut	Test scores	Class size	Student enrollment
Kane (2003)	Higher education, California	College attendance	Financial aid receipt	Income, assets, GPA
Lavy (2002)	Secondary schools, Israel	Test scores, drop out rates	Performance based incentives for teachers	Frequency of school type in community
Lavy (2004)	Secondary schools, Israel	Test scores	Pay-for-performance incentives	School matriculation rates
Lavy (2006)	Secondary schools, Tel Aviv	Dropout rates, test scores	School choice	Geographic location
Jacob and Lefgren (2004a)	Elementary schools, Chicago	Test scores	Teacher training	School averages on test scores

TABLE 5 (continued)  
REGRESSION DISCONTINUITY APPLICATIONS IN ECONOMICS

Study	Context	Outcome(s)	Treatment(s)	Assignment variable(s)
Jacob and Lefgren (2004b)	Elementary schools, Chicago	Test scores	Summer school attendance, grade retention	Standardized test scores
Leuven, Lindahl, Oosterbeek, and Webbink (2007)	Primary schools, Netherlands	Test scores	Extra funding	Percent disadvantaged minority pupils
Matsudaira (2008)	Elementary schools, Northeastern United States	Test scores	Summer school, grade promotion	Test scores
Urquiola (2006)	Elementary schools, Bolivia	Test scores	Class size	Student enrollment
Urquiola and Verhoogen (2009)	Class size sorting- RD violations, Chile	Test scores	Class size	Student enrollment
Van der Klaauw (2002, 1997)	College enrollment, East Coast College	Enrollment	Financial Aid offer	SAT scores, GPA
Van der Klaauw (2008a)	Elementary/middle schools, New York City	Test scores, student attendance	Title I federal funding	Poverty rates
<b>Labor Market</b>				
Battistin and Rettore (2002)	Job training, Italy	Employment rates	Training program (computer skills)	Attitudinal test score
Behaghel, Crepon, and Sedillot (2008)	Labor laws, France	Hiring among age groups	Tax exemption for hiring firm	Age of worker
Black, Smith, Berger, and Noel (2003); Black, Galdo, and Smith (2007b)	UI claimants, Kentucky	Earnings, benefit receipt/duration	Mandatory reemployment services (job search assistance)	Profiling score (expected benefit duration)
Card, Chetty, and Weber (2007)	Unemployment benefits, Austria	Unemployment duration	Lump-sum severance pay, extended UI benefits	Months employed, job tenure
Chen and van der Klaauw (2008)	Disability insurance beneficiaries, United States	Labor force participation	Disability insurance benefits	Age at disability decision
De Giorgi (2005)	Welfare-to-work program, United Kingdom	Re-employment probability	Job search assistance, training, education	Age at end of unemployment spell
DiNardo and Lee (2004)	Unionization, United States	Wages, employment, output	Union victory in NLRB election	Vote share
Dobkin and Ferreira (2009)	Individuals, California and Texas	Educational attainment, wages	Age at school entry	Birthdate
Edmonds (2004)	Child labor supply and school attendance, South Africa	Child labor supply, school attendance	Pension receipt of oldest family member	Age
Hahn, Todd, and van der Klaauw (1999)	Discrimination, United States	Minority employment	Coverage of federal antidiscrimination law	Number of employees at firm
Lalive (2008)	Unemployment Benefits, Austria	Unemployment duration	Maximum benefit duration	Age at start of unemployment spell, geographic location

TABLE 5 (continued)  
REGRESSION DISCONTINUITY APPLICATIONS IN ECONOMICS

Study	Context	Outcome(s)	Treatment(s)	Assignment variable(s)
Lalive (2007)	Unemployment, Austria	Unemployment duration, duration of job search, quality of post-unemployment jobs	Benefits duration	Age at start of unemployment spell
Lalive, Van Ours, and Zweimüller (2006)	Unemployment, Austria	Unemployment duration	Benefit replacement rate, potential benefit duration	Pre-unemployment income, age
Leuven and Oosterbeek (2004)	Employers, Netherlands	Training, wages	Business tax deduction, training	Age of employee
Lemieux and Milligan (2008)	Welfare, Canada	Employment, marital status, living arrangements	Cash benefit	Age
Oreopoulos (2006)	Returns to education, U.K.	Earnings	Coverage of compulsory schooling law	Birth year
<b>Political Economy</b>				
Albouy (2009)	Congress, United States	Federal expenditures	Party control of seat	Vote share in election
Albouy (2008)	Senate, United States	Roll call votes	Incumbency	Initial vote share
Ferreira and Gyourko (2009)	Mayoral Elections, United States	Local expenditures	Incumbency	Initial vote share
Lee (2008, 2001)	Congressional elections, United States	Vote share in next election	Incumbency	Initial vote share
Lee, Moretti, and Butler (2004)	House of Representatives, United States	Roll call votes	Incumbency	Initial vote share
McCrary (2008)	House of Representatives, United States	N/A	Passing of resolution	Share of roll call vote "Yeay"
Pettersson-Lidbom (2006)	Local Governments, Sweden and Finland	Expenditures, tax revenues	Number of council seats	Population
Pettersson-Lidbom (2008)	Local Governments, Sweden	Expenditures, tax revenues	Left-, right-wing bloc	Left-wing parties' share
<b>Health</b>				
Card and Shore-Sheppard (2004)	Medicaid, United States	Overall insurance coverage	Medicaid eligibility	Birthdate
Card, Dobkin, and Maestas (2008)	Medicare, United States	Health care utilization	Coverage under Medicare	Age
Card, Dobkin, and Maestas (2009)	Medicare, California	Insurance coverage, Health services, Mortality	Medicare coverage	Age
Carpenter and Dobkin (2009)	Alcohol and mortality, United States	Mortality	Attaining minimum legal drinking age	Age
Ludwig and Miller (2007)	Head Start, United States	Child mortality, educational attainment	Head Start funding	County poverty rates
McCrary and Royer (2003)	Maternal education, United States, California and Texas	Infant health, fertility timing	Age of school entry	Birthdate
Snyder and Evans (2006)	Social Security recipients, United States	Mortality	Social security payments (\$)	Birthdate

TABLE 5 (continued)  
REGRESSION DISCONTINUITY APPLICATIONS IN ECONOMICS

Study	Context	Outcome(s)	Treatment(s)	Assignment variable(s)
<b>Crime</b>				
Berk and DeLeeuw (1999)	Prisoner behavior in California	Inmate misconduct	Prison security levels	Classification score
Berk and Rauma (1983)	Ex-prisoners recidivism, California	Arrest, parole violation	Unemployment insurance benefit	Reported hours of work
Chen and Shapiro (2004)	Ex-prisoners recidivism, United States	Arrest rates	Prison security levels	Classification score
Lee and McCrary (2005)	Criminal offenders, Florida	Arrest rates	Severity of sanctions	Age at arrest
Hjalmarsson (2009)	Juvenile offenders, Washington State	Recidivism	Sentence length	Criminal history score
<b>Environment</b>				
Chay and Greenstone (2003)	Health effects of pollution, United States	Infant mortality	Regulatory status	Pollution levels
Chay and Greenstone (2005)	Valuation of air quality, United States	Housing prices	Regulatory status	Pollution levels
Davis (2008)	Restricted driving policy, Mexico	Hourly air pollutant measures	Restricted automobile use	Time
Greenstone and Gallagher (2008)	Hazardous waste, United States	Housing prices	Superfund clean-up status	Ranking of level of hazard
<b>Other</b>				
Battistin and Rettore (2008)	Mexican anti-poverty program (PROGRESA)	School attendance	Cash grants	Pre-assigned probability of being poor
Baum-Snow and Marion (2009)	Housing subsidies, United States	Residents' characteristics, new housing construction	Increased subsidies	Percentage of eligible households in area
Buddelmeyer and Skoufias (2004)	Mexican anti-poverty program (PROGRESA)	Child labor and school attendance	Cash grants	Pre-assigned probability of being poor
Buettner (2006)	Fiscal equalization across municipalities, Germany	Business tax rate	Implicit marginal tax rate on grants to localities	Tax base
Card, Mas, and Rothstein (2008)	Racial segregation, United States	Changes in census tract racial composition	Minority share exceeding "tipping" point	Initial minority share
Cole (2009)	Bank nationalization, India	Share of credit granted by public banks	Nationalization of private banks	Size of bank
Edmonds, Mammen, and Miller (2005)	Household structure, South Africa	Household composition	Pension receipt of oldest family member	Age
Ferreira (2007)	Residential mobility, California	Household mobility	Coverage of tax benefit	Age
Pence (2006)	Mortgage credit, United States	Size of loan	State mortgage credit laws	Geographic location
Pitt and Khandker (1998)	Poor households, Bangladesh	Labor supply, children school enrollment	Group-based credit program	Acreage of land
Pitt, Khandker, McKernan, and Latif (1999)	Poor households, Bangladesh	Contraceptive use, Childbirth	Group-based credit program	Acreage of land



variable, the treatment of interest, and the assignment variable employed.

While the categorization of the various studies into broad areas is rough and somewhat arbitrary, it does appear that a large share come from the area of education, where the outcome of interest is often an achievement test score and the assignment variable is also a test score, either at the individual or group (school) level. The second clearly identifiable group are studies that deal with labor market issues and outcomes. This probably reflects that, within economics, the RD design has so far primarily been used by labor economists, and that the use of quasi-experiments and program evaluation methods in documenting causal relationships is more prevalent in labor economics research.

There is, of course, nothing in the structure of the RD design tying it specifically to labor economics applications. Indeed, as the rest of the table shows, the remaining half of the studies are in the areas of political economy, health, crime, environment, and other areas.

## 6.2 Sources of Discontinuous Rules

Where do discontinuous rules come from, and in what situations would we expect to encounter them? As table 5 shows, there is a wide variety of contexts where discontinuous rules determine treatments of interest. There are, nevertheless, some patterns that emerge. We organize the various discontinuous rules below.

Before doing so, we emphasize that a good RD analysis—as with any other approach to program evaluation—is careful in clearly spelling out exactly what the treatment is, and whether it is of any real salience, independent of whatever effect it might have on the outcome. For example, when a pretest score is the assignment variable, we could always define a “treatment” as being “having passed the exam” (with a test score of 50 percent or higher), but this is not a very inter-

esting “treatment” to examine since it seems nothing more than an arbitrary label. On the other hand, if failing the exam meant not being able to advance to the next grade in school, the actual experience of treated and control individuals is observably different, no matter how large or small the impact on the outcome.

As another example, in the U.S. Congress, a Democrat obtaining the most votes in an election means something real—the Democratic candidate becomes a representative in Congress; otherwise, the Democrat has no official role in the government. But in a three-way electoral race, the treatment of the Democrat receiving the *second-most* number of votes (versus receiving the lowest number) is not likely a treatment of interest: only the first-place candidate is given any legislative authority. In principle, stories could be concocted about the psychological effect of placing second rather than third in an election, but this would be an example where the salience of the treatment is more speculative than when treatment is a concrete and observable event (e.g., a candidate becoming the sole representative of a constituency).

### 6.2.1 Necessary Discretization

Many discontinuous rules come about because resources cannot, for all practical purposes, be provided in a continuous manner. For example, a school can only have a whole number of classes per grade. For a fixed level of enrollment, the moment a school adds a single class, the average class size drops. As long as the number of classes is an increasing function of enrollment, there will be discontinuities at enrollments where a teacher is added. If there is a mandated maximum for the student to teacher ratio, this means that these discontinuities will be expected at enrollments that are exact multiples of the maximum. This is the

essence of the discontinuous rules used in the analyses of Angrist and Lavy (1999), M. Niaz Asadullah (2005), Caroline M. Hoxby (2000), Urquiola (2006), and Urquiola and Verhoogen (2009).

Another example of necessary discretization arises when children begin their schooling years. Although there are certainly exceptions, school districts typically follow a guideline that aims to group children together by age, leading to a grouping of children born in year-long intervals, determined by a single calendar date (e.g., September 1). This means children who are essentially of the same age (e.g., those born on August 31 and September 1), start school one year apart. This allocation of students to grade cohorts is used in Elizabeth U. Cascio and Ethan G. Lewis (2006), Dobkin and Fernando Ferreira (2009), and McCrary and Royer (2003).

Choosing a single representative by way of an election is yet another example. When the law or constitution calls for a single representative of some constituency and there are many competing candidates, the choice can be made via a “first-past-the-post” or “winner-take-all” election. This is the typical system for electing government officials at the local, state, and federal level in the United States. The resulting discontinuous relationship between win/loss status and the vote share is used in the context of the U.S. Congress in Lee (2001, 2008), Lee, Enrico Moretti and Matthew J. Butler (2004), David Albouy (2009), Albouy (2008), and in the context of mayoral elections in Ferreira and Joseph Gyourko (2009). The same idea is used in examining the impacts of union recognition, which is also decided by a secret ballot election (DiNardo and Lee 2004).

### 6.2.2 *Intentional Discretization*

Sometimes resources could potentially be allocated on a continuous scale but, in practice, are instead done in discrete levels. Among the studies we surveyed, we

identified three broad motivations behind the use of these discontinuous rules.

First, a number of rules seem driven by a compensatory or equalizing motive. For example, in Kenneth Y. Chay, Patrick J. McEwan and Urquiola (2005), Edwin Leuven et al. (2007), and van der Klaauw (2008a), extra resources for schools were allocated to the neediest communities, either on the basis of school-average test scores, disadvantaged minority proportions, or poverty rates. Similarly, Ludwig and Miller (2007), Erich Battistin and Enrico Rettore (2008), and Hielke Buddelmeyer and Emmanuel Skoufias (2004) study programs designed to help poor communities, where the eligibility of a community is based on poverty rates. In each of these cases, one could imagine providing the most resources to the neediest and gradually phasing them out as the need index declines, but in practice this is not done, perhaps because it was impractical to provide very small levels of the treatment, given the fixed costs in administering the program.

A second motivation for having a discontinuous rule is to allocate treatments on the basis of some measure of merit. This was the motivation behind the merit award from the analysis of Thistlethwaite and Campbell (1960), as well as recent studies of the effect of financial aid awards on college enrollment, where the assignment variable is some measure of student achievement or test score, as in Thomas J. Kane (2003) and van der Klaauw (2002).

Finally, we have observed that a number of discontinuous rules are motivated by the need to most effectively target the treatment. For example, environmental regulations or clean-up efforts naturally will focus on the most polluted areas, as in Chay and Michael Greenstone (2003), Chay and Greenstone (2005), and Greenstone and Justin Gallagher (2008). In the context of criminal behavior, prison security levels are often assigned based on an underlying score that quantifies

potential security risks, and such rules were used in Richard A. Berk and Jan de Leeuw (1999) and M. Keith Chen and Jesse M. Shapiro (2004).

### 6.3 Nonrandomized Discontinuity Designs

Throughout this article, we have focused on regression discontinuity designs that follow a certain structure and timing in the assignment of treatment. First, individuals or communities—potentially in anticipation of the assignment of treatment—make decisions and act, potentially altering their probability of receiving treatment. Second, there is a stochastic shock due to “nature,” reflecting that the units have incomplete control over the assignment variable. And finally, the treatment (or the intention to treat) is assigned on the basis of the assignment variable.

We have focused on this structure because in practice most RD analyses can be viewed along these lines, and also because of the similarity to the structure of a randomized experiment. That is, subjects of a randomized experiment may or may not make decisions in anticipation to participating in a randomized controlled trial (although their actions will ultimately have no influence on the probability of receiving treatment). Then the stochastic shock is realized (the randomization). Finally, the treatment is administered to one of the groups.

A number of the studies we surveyed though, did not seem to fit the spirit or essence of a randomized experiment. Since it is difficult to think of the treatment as being locally randomized in these cases, we will refer to the two research designs we identified in this category as “nonrandomized” discontinuity designs.

#### 6.3.1 Discontinuities in Age with Inevitable Treatment

Sometimes program status is turned on when an individual reaches a certain

age. Receipt of pension benefits is typically tied to reaching a particular age (see Eric V. Edmonds 2004; Edmonds, Kristin Mammen, and Miller 2005) and, in the United States, eligibility for the Medicare program begins at age 65 (see Card, Dobkin, and Maestas 2008) and young adults reach the legal drinking age at 21 (see Christopher Carpenter and Dobkin 2009). Similarly, one is subject to the less punitive juvenile justice system until the age of majority (typically, 18) (see Lee and McCrary 2005).

These cases stand apart from the typical RD designs discussed above because here assignment to treatment is essentially inevitable, as all subjects will eventually age into the program (or, conversely, age out of the program). One cannot, therefore, draw any parallels with a randomized experiment, which necessarily involves some *ex ante* uncertainty about whether a unit ultimately receives treatment (or the intent to treat).

Another important difference is that the tests of smoothness in baseline characteristics will generally be uninformative. Indeed, if one follows a single cohort over time, all characteristics determined prior to reaching the relevant age threshold are *by construction* identical just before and after the cutoff.<sup>48</sup> Note that in this case, *time* is the assignment variable, and therefore cannot be manipulated.

This design and the standard RD share the necessity of interpreting the discontinuity as the combined effect of *all* factors that switch on at the threshold. In the example of Thistlethwaite and Campbell (1960), if passing a scholarship exam provides the symbolic

<sup>48</sup> There are exceptions to this. There could be attrition over time, so that in principle, the number of observations could discontinuously drop at the threshold, changing the composition of the remaining observations. Alternatively, when examining a cross-section of different birth cohorts at a given point in time, it is possible to have sharp changes in the characteristics of individuals with respect to birthdate.

honor of passing the exam *as well as* a monetary award, the true treatment is a package of the two components, and one cannot attribute any effect to only one of the two. Similarly, when considering an age-activated treatment, one must consider the possibility that the age of interest is causing eligibility for potentially many other programs, which could affect the outcome.

There are at least two new issues that are irrelevant for the standard RD but are important for the analysis of age discontinuities. First, even if there is truly an effect on the outcome, if the effect is not immediate, it generally will not generate a discontinuity in the outcome. For example, suppose the receipt of Social Security benefits has no immediate impact but does have a long-run impact on labor force participation. Examining the labor force behavior as a function of age will not yield a discontinuity at age 67 (the full retirement age for those born after 1960), even though there may be a long-run effect. It is infeasible to estimate long-run effects because by the time we examine outcomes five years after receiving the treatment, for example, those individuals who were initially just below and just above age 67 will be exposed to essentially the same length of time of treatment (e.g., five years).<sup>49</sup>

The second important issue is that, because treatment is inevitable with the passage of time, individuals may fully anticipate the change in the regime and, therefore, may behave in certain ways prior to the time when treatment is turned on. Optimizing behavior in anticipation of a sharp regime change may either accentuate or mute observed effects. For example, simple life-cycle theories, assuming no liquidity constraints, suggest that the path of consumption will exhibit

no discontinuity at age 67, when Social Security benefits commence payment. On the other hand, some medical procedures are too expensive for an under-65-year-old but would be covered under Medicare upon turning 65. In this case, individuals' greater awareness of such a predicament will tend to *increase* the size of the discontinuity in utilization of medical procedures with respect to age (e.g., see Card, Dobkin, and Maestas 2008).

At this time we are unable to provide any more specific guidelines for analyzing these age/time discontinuities since it seems that how one models expectations, information, and behavior in anticipation of sharp changes in regimes will be highly context-dependent. But it does seem important to recognize these designs as being distinct from the standard RD design.

We conclude by emphasizing that when distinguishing between age-triggered treatments and a standard RD design, the involvement of age as an assignment variable is not as important as whether the receipt of treatment—or analogously, entering the control state—is inevitable. For example, on the surface, the analysis of the Medicaid expansions in Card and Lara D. Shore-Sheppard (2004) appears to be an age-based discontinuity since, effective July 1991, U.S. law requires states to cover children born after September 30, 1983, implying a discontinuous relationship between coverage and age, where the discontinuity in July 1991 was around 8 years of age. This design, however, actually fits quite easily into the standard RD framework we have discussed throughout this paper.

First, note that treatment receipt is *not* inevitable for those individuals born near the September 30, 1983, threshold. Those born strictly after that date were covered from July 1991 until their 18th birthday, while those born on or before the date received no such coverage. Second, the data generating process does follow the structure discussed

<sup>49</sup> By contrast, there is no such limitation with the standard RD design. One can examine outcomes defined at an arbitrarily long time period after the assignment to treatment.

above. Parents do have some influence regarding when their children are born, but with only imprecise control over the exact date (and at any rate, it seems implausible that parents would have anticipated that such a Medicaid expansion would have occurred eight years in the future, with the particular birthdate cutoff chosen). Thus the treatment is assigned based on the assignment variable, which is the birthdate in this context.

Examples of other age-based discontinuities where neither the treatment nor control state is guaranteed with the passage of time that can also be viewed within the standard RD framework include studies by Cascio and Lewis (2006), McCrary and Royer (2003), Dobkin and Ferreira (2009), and Phillip Oreopoulos (2006).

### 6.3.2 *Discontinuities in Geography*

Another “nonrandomized” RD design is one involving the location of residences, where the discontinuity threshold is a boundary that demarcates regions. Black (1999) and Patrick Bayer, Ferreira, and Robert McMillan (2007) examine housing prices on either side of school attendance boundaries to estimate the implicit valuation of different schools. Lavy (2006) examines adjacent neighborhoods in different cities, and therefore subject to different rules regarding student busing. Rafael Lalive (2008) compares unemployment duration in regions in Austria receiving extended benefits to adjacent control regions. Karen M. Pence (2006) examines census tracts along state borders to examine the impact of more borrower-friendly laws on mortgage loan sizes.

In each of these cases, it is awkward to view either houses or families as locally randomly assigned. Indeed this is a case where economic agents have quite precise control over where to place a house or where to live. The location of houses will be planned in response to geographic features (rivers, lakes, hills) and in conjunction with the planning of

streets, parks, commercial development, etc. In order for this to resemble a more standard RD design, one would have to imagine the relevant boundaries being set in a “random” way, so that it would be simply luck determining whether a house ended up on either side of the boundary. The concern over the endogeneity of boundaries is clearly recognized by Black (1999), who “. . . [b]ecause of concerns about neighborhood differences on opposite sides of an attendance district boundary, . . . was careful to omit boundaries from [her] sample if the two attendance districts were divided in ways that seemed to clearly divide neighborhoods; attendance districts divided by large rivers, parks, golf courses, or any large stretch of land were excluded.” As one could imagine, the selection of which boundaries to include could quickly turn into more of an art than a science.

We have no uniform advice on how to analyze geographic discontinuities because it seems that the best approach would be particularly context-specific. It does, however, seem prudent for the analyst, in assessing the internal validity of the research design, to carefully consider three sets of questions. First, what is the process that led to the location of the boundaries? Which came first: the houses or the boundaries? Were the boundaries a response to some preexisting geographical or political constraint? Second, how might sorting of families or the endogenous location of houses affect the analysis? And third, what are all the things differing between the two regions *other than the treatment of interest*? An exemplary analysis and discussion of these latter two issues in the context of school attendance zones is found in Bayer, Ferreira, and McMillan (2007).

## 7. *Concluding Remarks on RD Designs in Economics: Progress and Prospects*

Our reading of the existing and active literature is that—after being largely ignored



by economists for almost forty years—there have been significant inroads made in understanding the properties, limitations, interpretability, and perhaps most importantly, in the useful application of RD designs to a wide variety of empirical questions in economics. These developments have, for the most part, occurred within a short period of time, beginning in the late 1990s.

Here we highlight what we believe are the most significant recent contributions of the economics literature to the understanding and application of RD designs. We believe these are helpful developments in guiding applied researchers who seek to implement RD designs, and we also illustrate them with a few examples from the literature.

- **Sorting and Manipulation of the Assignment Variable:** Economists consider how self-interested individuals or optimizing organizations may behave in response to rules that allocate resources. It is therefore unsurprising that the discussion of how endogenous sorting around the discontinuity threshold *can invalidate* the RD design has been found (to our knowledge, exclusively) in the economics literature. By contrast, textbook treatments outside economics on RD do not discuss this sorting or manipulation, and give the impression that the knowledge of the assignment rule is sufficient for the validity of the RD.<sup>50</sup>

<sup>50</sup> For example, Trochim (1984) characterizes the three central assumptions of the RD design as: (1) perfect adherence to the cutoff rule, (2) having the correct functional form, and (3) no other factors (other than the program of interest) cause the discontinuity. More recently, William R. Shadish, Cook, and Campbell (2002) claim on page 243 that the proof of the unbiasedness of RD primarily follows from the fact that treatment is known perfectly once the assignment variable is known. They go on to argue that this deterministic rule implies omitted variables will not pose a problem. But Hahn, Todd, and van der Klaauw (2001)

We believe a “state-of-the-art” RD analysis today will consider carefully the possibility of endogenous sorting. A recent analysis that illustrates this standard is that of Urquiola and Verhoogen (2009), who examine the class size cap RD design pioneered by Angrist and Lavy (1999) in the context of Chile’s highly liberalized market for primary schools. In a certain segment of the private market, schools receive a fixed payment per student from the government. However, each school faces a very high marginal cost (hiring one extra teacher) for crossing a multiple of the class size cap. Perhaps unsurprisingly, they find striking discontinuities in the *histogram* of the assignment variable (total enrollment in the grade), with an undeniable “stacking” of schools at the relevant class size cap cutoffs. They also provide evidence that those families in schools just to the left and right of the thresholds are systematically different in family income, suggesting some degree of sorting. For this reason, they conclude that an RD analysis in this particular context is most likely inappropriate.<sup>51</sup> This study, as well as the analysis of Bayer, Ferreira, and McMillan (2007) reflects a heightened awareness of a sorting issue recognized since the beginning of the recent wave of RD applications in economics.<sup>52</sup> From a practitioner’s perspective, an important recent development

make it clear that the existence of a deterministic rule for the assignment of treatment is *not* sufficient for unbiasedness, and it is necessary to *assume* the influence of all other factors (omitted variables) are the same on either side of the discontinuity threshold (i.e., their continuity assumption).

<sup>51</sup> Urquiola and Verhoogen (2009) emphasize the sorting issues may well be specific to the liberalized nature of the Chilean primary school market, and that they may or may not be present in other countries.

<sup>52</sup> See, for example, footnote 23 in van der Klaauw (1997) and page 549 in Angrist and Lavy (1999).



is the notion that we can empirically examine the degree of sorting, and one way of doing so is suggested in McCrary (2008).

- **RD Designs as Locally Randomized Experiments:** Economists are hesitant to apply methods that have not been rigorously formalized within an econometric framework, and where crucial identifying assumptions have not been clearly specified. This is perhaps one of the reasons why RD designs were underutilized by economists for so long, since it is only relatively recently that the underlying assumptions needed for the RD were formalized.<sup>53</sup> In the recent literature, RD designs were initially viewed as a special case of matching (Heckman, Lalonde, and Smith 1999), or alternatively as a special case of IV (Angrist and Krueger 1999), and these perspectives may have provided empirical researchers a familiar econometric framework within which identifying assumptions could be more carefully discussed.

Today, RD is increasingly recognized in applied research as a distinct design that is a close relative to a randomized experiment. Formally shown in Lee (2008), even when individuals have

some control over the assignment variable, as long as this control is imprecise—that is, the *ex ante* density of the assignment variable is continuous—the consequence will be local randomization of the treatment. So in a number of nonexperimental contexts where resources are allocated based on a sharp cutoff rule, there may indeed be a hidden randomized experiment to utilize. And furthermore, as in a randomized experiment, this implies that all observable baseline covariates will locally have the same distribution on either side of the discontinuity threshold—an empirically testable proposition.

We view the testing of the continuity of the baseline covariates as an important part of assessing the validity of any RD design—particularly in light of the incentives that can potentially generate sorting—and as something that truly sets RD apart from other evaluation strategies. Examples of this kind of testing of the RD design include Jordan D. Matsudaira (2008), Card, Raj Chetty and Andrea Weber (2007), DiNardo and Lee (2004), Lee, Moretti and Butler (2004), McCrary and Royer (2003), Greenstone and Gallagher (2008), and Urquiola and Verhoogen (2009).

<sup>53</sup> An example of how economists'/econometricians' notion of a proof differs from that in other disciplines is found in Cook (2008), who views the discussion in Arthur S. Goldberger (1972a) and Goldberger (1972b) as the first "proof of the basic design," quoting the following passage in Goldberger (1972a) (brackets from Cook 2008): "The explanation for this serendipitous result [no bias when selection is on an observed pretest score] is not hard to locate. Recall that  $z$  [a binary variable representing the treatment contrast at the cutoff] is completely determined by pretest score  $x$  [an obtained ability score]. It cannot contain any information about  $x^*$  [true ability] that is not contained within  $x$ . Consequently, when we control on  $x$  as in the multiple regression,  $z$  has no explanatory power with respect to  $y$  [the outcome measured with error]. More formally, the partial correlation of  $y$  and  $z$  controlling on  $x$  vanishes although the simple correlation of  $y$  and  $z$  is

nonzero" (p. 647). After reading the article, an econometrician will recognize the discussion above not as a proof of the validity of the RD, but rather as a restatement of the consequence of  $z$  being an indicator variable determined by an observed variable  $x$ , in a specific parameterized example. Today we know the existence of such a rule is *not sufficient* for a valid RD design, and a crucial necessary assumption is the continuity of the influence of all other factors, as shown in Hahn, Todd, and van der Klaauw (2001). In Goldberger (1972a), the role of the continuity of omitted factors was not mentioned (although it is implicitly assumed in the stylized model of test scores involving normally distributed and independent errors). Indeed, apparently Goldberger himself later clarified that he did not set out to propose the RD design, and was instead interested in the issues related to selection on observables and unobservables (Cook 2008).

- **Graphical Analysis and Presentation:**

The graphical presentation of an RD analysis is not a contribution of economists,<sup>54</sup> but it is safe to say that the body of work produced by economists has led to a kind of “industry standard” that the transparent identification strategy of the RD be accompanied by an equally transparent graph showing the empirical relation between the outcome and the assignment variable. Graphical presentations of RD are so prevalent in applied research, it is tempting to guess that studies not including the graphical evidence are ones where the graphs are not compelling or well-behaved.

In an RD analysis, the graph is indispensable because it can summarize a great deal of information in one picture. It can give a rough sense of the range of the both the assignment variable and the outcome variable as well as the overall shape of the relationship between the two, thus indicating what functional forms are likely to make sense. It can also alert the researcher to potential outliers in both the assignment and outcome variables. A graph of the raw means—in nonoverlapping intervals, as discussed in section 4.1—also gives a rough sense of the likely sampling variability of the RD gap estimate itself, since one can compare the size of the jump at the discontinuity to natural “bumpiness” in the graph away from the discontinuity. Our reading of the literature is that the most informative graphs are ones that simultaneously allow the raw data “to speak for themselves” in revealing a discontinuity if there is one, yet at the same time treat data near the threshold the same as data away from the

threshold.<sup>55</sup> There are many examples that follow this general principle; recent ones include Matsudaira (2008), Card, Chetty and Weber (2007), Card, Dobkin, and Maestas (2009), McCrary and Royer (2003), Lee (2008), and Ferreira and Gyourko (2009).

- **Applicability:** Soon after the introduction of RD, in a chapter in a book on research methods, Campbell and Julian C. Stanley (1963) wrote that the RD design was “very limited in range of possible applications.” The emerging body of research produced by economists in recent years has proven quite the opposite. Our survey of the literature suggests that there are many kinds of discontinuous rules that can help answer important questions in economics and related areas. Indeed, one may go so far as to guess that whenever a scarce resource is rationed for individual entities, if the political climate demands a transparent way of distributing that resource, it is a good bet there is an RD design lurking in the background. In addition, it seems that the approach of using changes in laws that disqualify older birth cohorts based on their date of birth (as in Card and Shore-Sheppard (2004) or Oreopoulos (2006)) may well have much wider applicability.

One way to understand both the applicability and limitations of the RD design is to recognize its relation to a standard econometric policy evaluation framework, where the main variable of interest is a potentially endogenous binary treatment variable (as considered in Heckman 1978 or more recently discussed in Heckman and Vytlačil

<sup>54</sup> Indeed the original article of Thistlethwaite and Campbell (1960) included a graphical analysis of the data.

<sup>55</sup> For example, graphing a smooth conditional expectation function everywhere *except* at the discontinuity threshold violates this principle.

2005). This selection model applies to a great deal of economic problems. As we pointed out in section 3, the RD design describes a situation where you are able to *observe* the latent variable that determines treatment. As long as the density of that variable is continuous for each individual, the benefit of observing the latent index is that one neither needs to make exclusion restrictions nor assume any variable (i.e., an instrument) is independent of errors in the outcome equation.

From this perspective, for the class of problems that fit into the standard treatment evaluation problem, RD designs can be seen as a subset since there is an institutional, index-based rule playing a role in determining treatment. Among this subset, the binding constraint of RD lies in obtaining the necessary data: readily available public-use household survey data, for example, will often only contain variables that are correlated with the true assignment variable (e.g., reported income in a survey, as opposed to the income used for allocation of benefits), or are measured too coarsely (e.g., years rather than months or weeks) to detect a discontinuity in the presence of a regression function with significant curvature. This is where there can be a significant payoff to investing in securing high quality data, which is evident in most of the studies listed in table 5.

### 7.1 Extensions

We conclude by discussing two natural directions in which the RD approach can be extended. First, we have discussed the “fuzzy” RD design as an important departure from the “classic” RD design where treatment is a deterministic function of the assignment variable, but there are other departures that could be practically relevant but not as well understood. For example, even if there

is perfect compliance of the discontinuous rule, it may be that the researcher does not directly observe the assignment variable, but instead possesses a slightly noisy measure of the variable. Understanding the effects of this kind of measurement error could further expand the applicability of RD. In addition, there may be situations where the researcher both suspects and statistically detects some degree of precise sorting around the threshold, but that the sorting may appear to be relatively minor, even if statistically significant (based on observing discontinuities in baseline characteristics). The challenge, then, is to specify under what conditions one can correct for small amounts of this kind of contamination.

Second, so far we have discussed the sorting or manipulation issue as a potential problem or nuisance to the general program evaluation problem. But there is another way of viewing this sorting issue. The observed sorting may well be evidence of economic agents responding to incentives, and may help identify economically interesting phenomena. That is, economic behavior may be what is driving discontinuities in the frequency distribution of grade enrollment (as in Urquiola and Verhoogen 2009), or in the distribution of roll call votes (as in McCrary 2008), or in the distribution of age at offense (as in Lee and McCrary 2005), and those behavioral responses may be of interest.

These cases, as well as the age/time and boundary discontinuities discussed above, do not fit into the “standard” RD framework, but nevertheless can tell us something important about behavior, and further expand the kinds of questions that can be addressed by exploiting discontinuous rules to identify meaningful economic parameters of interest.

### REFERENCES

- Albouy, David. 2008. “Do Voters Affect or Elect Policies? A New Perspective With Evidence from the U.S. Senate.” Unpublished.

- Albouy, David. 2009. "Partisan Representation in Congress and the Geographic Distribution of Federal Funds." National Bureau of Economic Research Working Paper 15224.
- Angrist, Joshua D. 1990. "Lifetime Earnings and the Vietnam Era Draft Lottery: Evidence from Social Security Administrative Records." *American Economic Review*, 80(3): 313–36.
- Angrist, Joshua D., and Alan B. Krueger. 1999. "Empirical Strategies in Labor Economics." In *Handbook of Labor Economics, Volume 3A*, ed. Orley Ashenfelter and David Card, 1277–1366. Amsterdam; New York and Oxford: Elsevier Science, North-Holland.
- Angrist, Joshua D., and Victor Lavy. 1999. "Using Maimonides' Rule to Estimate the Effect of Class Size on Scholastic Achievement." *Quarterly Journal of Economics*, 114(2): 533–75.
- Asadullah, M. Niaz. 2005. "The Effect of Class Size on Student Achievement: Evidence from Bangladesh." *Applied Economics Letters*, 12(4): 217–21.
- Battistin, Erich, and Enrico Rettore. 2002. "Testing for Programme Effects in a Regression Discontinuity Design with Imperfect Compliance." *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 165(1): 39–57.
- Battistin, Erich, and Enrico Rettore. 2008. "Ineligibles and Eligible Non-participants as a Double Comparison Group in Regression-Discontinuity Designs." *Journal of Econometrics*, 142(2): 715–30.
- Baum-Snow, Nathaniel, and Justin Marion. 2009. "The Effects of Low Income Housing Tax Credit Developments on Neighborhoods." *Journal of Public Economics*, 93(5–6): 654–66.
- Bayer, Patrick, Fernando Ferreira, and Robert McMillan. 2007. "A Unified Framework for Measuring Preferences for Schools and Neighborhoods." *Journal of Political Economy*, 115(4): 588–638.
- Behaghel, Luc, Bruno Crépon, and Béatrice Sédillot. 2008. "The Perverse Effects of Partial Employment Protection Reform: The Case of French Older Workers." *Journal of Public Economics*, 92(3–4): 696–721.
- Berk, Richard A., and Jan de Leeuw. 1999. "An Evaluation of California's Inmate Classification System Using a Generalized Regression Discontinuity Design." *Journal of the American Statistical Association*, 94(448): 1045–52.
- Berk, Richard A., and David Rauma. 1983. "Capitalizing on Nonrandom Assignment to Treatments: A Regression-Discontinuity Evaluation of a Crime-Control Program." *Journal of the American Statistical Association*, 78(381): 21–27.
- Black, Dan A., Jose Galdo, and Jeffrey A. Smith. 2007a. "Evaluating the Regression Discontinuity Design Using Experimental Data." Unpublished.
- Black, Dan A., Jose Galdo, and Jeffrey A. Smith. 2007b. "Evaluating the Worker Profiling and Reemployment Services System Using a Regression Discontinuity Approach." *American Economic Review*, 97(2): 104–07.
- Black, Dan A., Jeffrey A. Smith, Mark C. Berger, and Brett J. Noel. 2003. "Is the Threat of Reemployment Services More Effective Than the Services Themselves? Evidence from Random Assignment in the UI System." *American Economic Review*, 93(4): 1313–27.
- Black, Sandra E. 1999. "Do Better Schools Matter? Parental Valuation of Elementary Education." *Quarterly Journal of Economics*, 114(2): 577–99.
- Blundell, Richard, and Alan Duncan. 1998. "Kernel Regression in Empirical Microeconomics." *Journal of Human Resources*, 33(1): 62–87.
- Buddelmeyer, Hielke, and Emmanuel Skoufias. 2004. "An Evaluation of the Performance of Regression Discontinuity Design on PROGRESA." World Bank Policy Research Working Paper 3386.
- Buettner, Thiess. 2006. "The Incentive Effect of Fiscal Equalization Transfers on Tax Policy." *Journal of Public Economics*, 90(3): 477–97.
- Campbell, Donald T., and Julian C. Stanley. 1963. "Experimental and Quasi-experimental Designs for Research on Teaching." In *Handbook of Research on Teaching*, ed. N. L. Gage, 171–246. Chicago: Rand McNally.
- Canton, Erik, and Andreas Blom. 2004. "Can Student Loans Improve Accessibility to Higher Education and Student Performance? An Impact Study of the Case of SOFES, Mexico." World Bank Policy Research Working Paper 3425.
- Card, David, Raj Chetty, and Andrea Weber. 2007. "Cash-on-Hand and Competing Models of Intertemporal Behavior: New Evidence from the Labor Market." *Quarterly Journal of Economics*, 122(4): 1511–60.
- Card, David, Carlos Dobkin, and Nicole Maestas. 2008. "The Impact of Nearly Universal Insurance Coverage on Health Care Utilization: Evidence from Medicare." *American Economic Review*, 98(5): 2242–58.
- Card, David, Carlos Dobkin, and Nicole Maestas. 2009. "Does Medicare Save Lives?" *Quarterly Journal of Economics*, 124(2): 597–636.
- Card, David, Alexandre Mas, and Jesse Rothstein. 2008. "Tipping and the Dynamics of Segregation." *Quarterly Journal of Economics*, 123(1): 177–218.
- Card, David, and Lara D. Shore-Sheppard. 2004. "Using Discontinuous Eligibility Rules to Identify the Effects of the Federal Medicaid Expansions on Low-Income Children." *Review of Economics and Statistics*, 86(3): 752–66.
- Carpenter, Christopher, and Carlos Dobkin. 2009. "The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age." *American Economic Journal: Applied Economics*, 1(1): 164–82.
- Cascio, Elizabeth U., and Ethan G. Lewis. 2006. "Schooling and the Armed Forces Qualifying Test: Evidence from School-Entry Laws." *Journal of Human Resources*, 41(2): 294–318.
- Chay, Kenneth Y., and Michael Greenstone. 2003. "Air Quality, Infant Mortality, and the Clean Air Act of 1970." National Bureau of Economic Research Working Paper 10053.
- Chay, Kenneth Y., and Michael Greenstone. 2005.

- "Does Air Quality Matter? Evidence from the Housing Market." *Journal of Political Economy*, 113(2): 376–424.
- Chay, Kenneth Y., Patrick J. McEwan, and Miguel Urquiola. 2005. "The Central Role of Noise in Evaluating Interventions That Use Test Scores to Rank Schools." *American Economic Review*, 95(4): 1237–58.
- Chen, M. Keith, and Jesse M. Shapiro. 2004. "Does Prison Harden Inmates? A Discontinuity-Based Approach." Yale University Cowles Foundation Discussion Paper 1450.
- Chen, Susan, and Wilbert van der Klaauw. 2008. "The Work Disincentive Effects of the Disability Insurance Program in the 1990s." *Journal of Econometrics*, 142(2): 757–84.
- Chiang, Hanley. 2009. "How Accountability Pressure on Failing Schools Affects Student Achievement." *Journal of Public Economics*, 93(9–10): 1045–57.
- Clark, Damon. 2009. "The Performance and Competitive Effects of School Autonomy." *Journal of Political Economy*, 117(4): 745–83.
- Cole, Shawn. 2009. "Financial Development, Bank Ownership, and Growth: Or, Does Quantity Imply Quality?" *Review of Economics and Statistics*, 91(1): 33–51.
- Cook, Thomas D. 2008. "'Waiting for Life to Arrive': A History of the Regression-Discontinuity Design in Psychology, Statistics and Economics." *Journal of Econometrics*, 142(2): 636–54.
- Davis, Lucas W. 2008. "The Effect of Driving Restrictions on Air Quality in Mexico City." *Journal of Political Economy*, 116(1): 38–81.
- De Giorgi, Giacomo. 2005. "Long-Term Effects of a Mandatory Multistage Program: The New Deal for Young People in the UK." Institute for Fiscal Studies Working Paper 05/08.
- Desjardins, Stephen L., and Brian P. McCall. 2008. "The Impact of the Gates Millennium Scholars Program on the Retention, College Finance- and Work-Related Choices, and Future Educational Aspirations of Low-Income Minority Students." Unpublished.
- DiNardo, John, and David S. Lee. 2004. "Economic Impacts of New Unionization on Private Sector Employers: 1984–2001." *Quarterly Journal of Economics*, 119(4): 1383–1441.
- Ding, Weili, and Steven F. Lehrer. 2007. "Do Peers Affect Student Achievement in China's Secondary Schools?" *Review of Economics and Statistics*, 89(2): 300–312.
- Dobkin, Carlos, and Fernando Ferreira. 2009. "Do School Entry Laws Affect Educational Attainment and Labor Market Outcomes?" National Bureau of Economic Research Working Paper 14945.
- Edmonds, Eric V. 2004. "Does Illiquidity Alter Child Labor and Schooling Decisions? Evidence from Household Responses to Anticipated Cash Transfers in South Africa." National Bureau of Economic Research Working Paper 10265.
- Edmonds, Eric V., Kristin Mammen, and Douglas L. Miller. 2005. "Rearranging the Family? Income Support and Elderly Living Arrangements in a Low-Income Country." *Journal of Human Resources*, 40(1): 186–207.
- Fan, Jianqing, and Irene Gijbels. 1996. *Local Polynomial Modelling and Its Applications*. London; New York and Melbourne: Chapman and Hall.
- Ferreira, Fernando. Forthcoming. "You Can Take It With You: Proposition 13 Tax Benefits, Residential Mobility, and Willingness to Pay for Housing Amenities." *Journal of Public Economics*.
- Ferreira, Fernando, and Joseph Gyourko. 2009. "Do Political Parties Matter? Evidence from U.S. Cities." *Quarterly Journal of Economics*, 124(1): 399–422.
- Figlio, David N., and Lawrence W. Kenny. 2009. "Public Sector Performance Measurement and Stakeholder Support." *Journal of Public Economics*, 93(9–10): 1069–77.
- Goldberger, Arthur S. 1972a. "Selection Bias in Evaluating Treatment Effects: Some Formal Illustrations." Unpublished.
- Goldberger, Arthur S. 1972b. *Selection Bias in Evaluating Treatment Effects: The Case of Interaction*. Unpublished.
- Goodman, Joshua. 2008. "Who Merits Financial Aid?: Massachusetts' Adams Scholarship." *Journal of Public Economics*, 92(10–11): 2121–31.
- Goolsbee, Austan, and Jonathan Guryan. 2006. "The Impact of Internet Subsidies in Public Schools." *Review of Economics and Statistics*, 88(2): 336–47.
- Greenstone, Michael, and Justin Gallagher. 2008. "Does Hazardous Waste Matter? Evidence from the Housing Market and the Superfund Program." *Quarterly Journal of Economics*, 123(3): 951–1003.
- Guryan, Jonathan. 2001. "Does Money Matter? Regression-Discontinuity Estimates from Education Finance Reform in Massachusetts." National Bureau of Economic Research Working Paper 8269.
- Hahn, Jinyong. 1998. "On the Role of the Propensity Score in Efficient Semiparametric Estimation of Average Treatment Effects." *Econometrica*, 66(2): 315–31.
- Hahn, Jinyong, Petra Todd, and Wilbert van der Klaauw. 1999. "Evaluating the Effect of an Antidiscrimination Law Using a Regression-Discontinuity Design." National Bureau of Economic Research Working Paper 7131.
- Hahn, Jinyong, Petra Todd, and Wilbert van der Klaauw. 2001. "Identification and Estimation of Treatment Effects with a Regression-Discontinuity Design." *Econometrica*, 69(1): 201–09.
- Heckman, James J. 1978. "Dummy Endogenous Variables in a Simultaneous Equation System." *Econometrica*, 46(4): 931–59.
- Heckman, James J., Robert J. Lalonde, and Jeffrey A. Smith. 1999. "The Economics and Econometrics of Active Labor Market Programs." In *Handbook of Labor Economics*, Volume 3A, ed. Orley Ashenfelter and David Card, 1865–2097. Amsterdam; New York and Oxford: Elsevier Science, North-Holland.
- Heckman, James J., and Edward Vytlacil. 2005. "Structural Equations, Treatment Effects, and Econometric



- Policy Evaluation." *Econometrica*, 73(3): 669–738.
- Hjalmarsson, Randi. 2009. "Juvenile Jails: A Path to the Straight and Narrow or to Hardened Criminality?" *Journal of Law and Economics*, 52(4): 779–809.
- Horowitz, Joel L., and Charles F. Manski. 2000. "Non-parametric Analysis of Randomized Experiments with Missing Covariate and Outcome Data." *Journal of the American Statistical Association*, 95(449): 77–84.
- Hoxby, Caroline M. 2000. "The Effects of Class Size on Student Achievement: New Evidence from Population Variation." *Quarterly Journal of Economics*, 115(4): 1239–85.
- Imbens, Guido W., and Joshua D. Angrist. 1994. "Identification and Estimation of Local Average Treatment Effects." *Econometrica*, 62(2): 467–75.
- Imbens, Guido W., and Karthik Kalyanaraman. 2009. "Optimal Bandwidth Choice for the Regression Discontinuity Estimator." National Bureau of Economic Research Working Paper 14726.
- Imbens, Guido W., and Thomas Lemieux. 2008. "Regression Discontinuity Designs: A Guide to Practice." *Journal of Econometrics*, 142(2): 615–35.
- Jacob, Brian A., and Lars Lefgren. 2004a. "The Impact of Teacher Training on Student Achievement: Quasi-experimental Evidence from School Reform Efforts in Chicago." *Journal of Human Resources*, 39(1): 50–79.
- Jacob, Brian A., and Lars Lefgren. 2004b. "Remedial Education and Student Achievement: A Regression-Discontinuity Analysis." *Review of Economics and Statistics*, 86(1): 226–44.
- Kane, Thomas J. 2003. "A Quasi-experimental Estimate of the Impact of Financial Aid on College-Going." National Bureau of Economic Research Working Paper 9703.
- Lalive, Rafael. 2007. "Unemployment Benefits, Unemployment Duration, and Post-unemployment Jobs: A Regression Discontinuity Approach." *American Economic Review*, 97(2): 108–12.
- Lalive, Rafael. 2008. "How Do Extended Benefits Affect Unemployment Duration? A Regression Discontinuity Approach." *Journal of Econometrics*, 142(2): 785–806.
- Lalive, Rafael, Jan C. van Ours, and Josef Zweimüller. 2006. "How Changes in Financial Incentives Affect the Duration of Unemployment." *Review of Economic Studies*, 73(4): 1009–38.
- Lavy, Victor. 2002. "Evaluating the Effect of Teachers' Group Performance Incentives on Pupil Achievement." *Journal of Political Economy*, 110(6): 1286–1317.
- Lavy, Victor. 2004. "Performance Pay and Teachers' Effort, Productivity and Grading Ethics." National Bureau of Economic Research Working Paper 10622.
- Lavy, Victor. 2006. "From Forced Busing to Free Choice in Public Schools: Quasi-Experimental Evidence of Individual and General Effects." National Bureau of Economic Research Working Paper 11969.
- Lee, David S. 2001. "The Electoral Advantage to Incumbency and Voters' Valuation of Politicians' Experience: A Regression Discontinuity Analysis of Close Elections." University of California Berkeley Center for Labor Economics Working Paper 31.
- Lee, David S. 2008. "Randomized Experiments from Non-random Selection in U.S. House Elections." *Journal of Econometrics*, 142(2): 675–97.
- Lee, David S. 2009. "Training, Wages, and Sample Selection: Estimating Sharp Bounds on Treatment Effects." *Review of Economic Studies*, 76(3): 1071–1102.
- Lee, David S., and David Card. 2008. "Regression Discontinuity Inference with Specification Error." *Journal of Econometrics*, 142(2): 655–74.
- Lee, David S., and Justin McCrary. 2005. "Crime, Punishment, and Myopia." National Bureau of Economic Research Working Paper 11491.
- Lee, David S., Enrico Moretti, and Matthew J. Butler. 2004. "Do Voters Affect or Elect Policies? Evidence from the U.S. House." *Quarterly Journal of Economics*, 119(3): 807–59.
- Lemieux, Thomas, and Kevin Milligan. 2008. "Incentive Effects of Social Assistance: A Regression Discontinuity Approach." *Journal of Econometrics*, 142(2): 807–28.
- Leuven, Edwin, Mikael Lindahl, Hessel Oosterbeek, and Dinand Webbink. 2007. "The Effect of Extra Funding for Disadvantaged Pupils on Achievement." *Review of Economics and Statistics*, 89(4): 721–36.
- Leuven, Edwin, and Hessel Oosterbeek. 2004. "Evaluating the Effect of Tax Deductions on Training." *Journal of Labor Economics*, 22(2): 461–88.
- Ludwig, Jens, and Douglas L. Miller. 2007. "Does Head Start Improve Children's Life Chances? Evidence from a Regression Discontinuity Design." *Quarterly Journal of Economics*, 122(1): 159–208.
- Matsudaira, Jordan D. 2008. "Mandatory Summer School and Student Achievement." *Journal of Econometrics*, 142(2): 829–50.
- McCrary, Justin. 2008. "Manipulation of the Running Variable in the Regression Discontinuity Design: A Density Test." *Journal of Econometrics*, 142(2): 698–714.
- McCrary, Justin, and Heather Royer. 2003. "Does Maternal Education Affect Infant Health? A Regression Discontinuity Approach Based on School Age Entry Laws." Unpublished.
- Newey, Whitney K., and Daniel L. McFadden. 1994. "Large Sample Estimation and Hypothesis Testing." In *Handbook of Econometrics, Volume 4*, ed. Robert F. Engle and Daniel L. McFadden, 2111–2245. Amsterdam; London and New York: Elsevier, North-Holland.
- Oreopoulos, Philip. 2006. "Estimating Average and Local Average Treatment Effects of Education When Compulsory Schooling Laws Really Matter." *American Economic Review*, 96(1): 152–75.
- Pence, Karen M. 2006. "Foreclosing on Opportunity: State Laws and Mortgage Credit." *Review of Economics and Statistics*, 88(1): 177–82.
- Pettersson, Per. 2000. "Do Parties Matter for Fiscal Policy Choices?" *Econometric Society World*



- Congress 2000 Contributed Paper 1373.
- Pettersson-Lidbom, Per. 2008a. "Does the Size of the Legislature Affect the Size of Government? Evidence from Two Natural Experiments." Unpublished.
- Pettersson-Lidbom, Per. 2008b. "Do Parties Matter for Economic Outcomes? A Regression-Discontinuity Approach." *Journal of the European Economic Association*, 6(5): 1037–56.
- Pitt, Mark M., and Shahidur R. Khandker. 1998. "The Impact of Group-Based Credit Programs on Poor Households in Bangladesh: Does the Gender of Participants Matter?" *Journal of Political Economy*, 106(5): 958–96.
- Pitt, Mark M., Shahidur R. Khandker, Signe-Mary McKernan, and M. Abdul Latif. 1999. "Credit Programs for the Poor and Reproductive Behavior in Low-Income Countries: Are the Reported Causal Relationships the Result of Heterogeneity Bias?" *Demography*, 36(1): 1–21.
- Porter, Jack. 2003. "Estimation in the Regression Discontinuity Model." Unpublished.
- Powell, James L. 1994. "Estimation of Semiparametric Models." In *Handbook of Econometrics, Volume 4*, ed. Robert F. Engle and Daniel L. McFadden, 2443–2521. Amsterdam; London and New York: Elsevier, North-Holland.
- Shadish, William R., Thomas D. Cook, and Donald T. Campbell. 2002. *Experimental and Quasi-Experimental Designs for Generalized Causal Inference*. Boston: Houghton Mifflin.
- Silverman, Bernard W. 1986. *Density Estimation for Statistics and Data Analysis*. London and New York: Chapman and Hall.
- Snyder, Stephen E., and William N. Evans. 2006. "The Effect of Income on Mortality: Evidence from the Social Security Notch." *Review of Economics and Statistics*, 88(3): 482–95.
- Thistlethwaite, Donald L., and Donald T. Campbell. 1960. "Regression-Discontinuity Analysis: An Alternative to the Ex Post Facto Experiment." *Journal of Educational Psychology*, 51(6): 309–17.
- Trochim, William M. K. 1984. *Research Design for Program Evaluation: The Regression-Discontinuity Approach*. Beverly Hills: Sage Publications.
- Urquiola, Miguel. 2006. "Identifying Class Size Effects in Developing Countries: Evidence from Rural Bolivia." *Review of Economics and Statistics*, 88(1): 171–77.
- Urquiola, Miguel, and Eric A. Verhoogen. 2009. "Class-Size Caps, Sorting, and the Regression-Discontinuity Design." *American Economic Review*, 99(1): 179–215.
- van der Klaauw, Wilbert. 1997. "A Regression-Discontinuity Evaluation of the Effect of Financial Aid Offers on College Enrollment." New York University C.V. Starr Center for Applied Economics Working Paper 10.
- van der Klaauw, Wilbert. 2002. "Estimating the Effect of Financial Aid Offers on College Enrollment: A Regression-Discontinuity Approach." *International Economic Review*, 43(4): 1249–87.
- van der Klaauw, Wilbert. 2008a. "Breaking the Link between Poverty and Low Student Achievement: An Evaluation of Title I." *Journal of Econometrics*, 142(2): 731–56.
- van der Klaauw, Wilbert. 2008b. "Regression-Discontinuity Analysis: A Survey of Recent Developments in Economics." *Labour*, 22(2): 219–45.
- White, Halbert. 1980. "A Heteroskedasticity-Consistent Covariance Matrix Estimator and a Direct Test for Heteroskedasticity." *Econometrica*, 48(4): 817–38.

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3. Ziwei Zhang, Jianqi Song, Taiyi Shu, Tiantian Zhao. 2024. Changes in rural financial exclusion's supply and demand factors from the perspective of digital inclusive financial policies. *Cogent Economics & Finance* **12**:1. . [[Crossref](#)]
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23. Gunes A. Asik. 2024. Early retirement incentives and transition into informality. *Labour Economics* **90**, 102561. [[Crossref](#)]
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27. Xiaobing Wang, Xinyuan Lei, Yanjun Ren, Jianyu Yu. 2024. Richer and Healthier? Social Pensions and Unhealthy Consumption Behavior in China. *Economic Development and Cultural Change* **73**:1, 381-422. [[Crossref](#)]
28. Xiaoqian Liu, Javier Cifuentes-Faura, Ming Gao, Cunyi Yang. 2024. Financing constraints of firms: Is there political favoritism in the economic resources given by the central government?. *Managerial and Decision Economics* **45**:7, 4983-5005. [[Crossref](#)]
29. William G. Obenauer, Jost Sieweke, Nicolas Bastardoz, Paulo R. Arvate, Brooke A. Gazdag, Tanja Hentschel. 2024. Are women strategic leaders more effective during a crisis than men strategic leaders? A causal analysis of the relationship between strategic leader gender and outcomes during the COVID-19 crisis. *The Leadership Quarterly* **27**, 101812. [[Crossref](#)]
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32. Kanghyock Koh, Sungchul Park. 2024. Effects of the Medicaid coverage cliff on low-income elderly Medicare beneficiaries. *Health Economics* **124**. . [[Crossref](#)]

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34. Ximena Catalán, Maria Veronica Santelices, Catherine Horn. 2024. Equity and Higher Education Access in Chile: The High School Ranking Admission Policy Results from the Perspective of Its Program Theory. *Higher Education Policy* 40. . [\[Crossref\]](#)
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37. Aline de Souza, Mônica Viegas Andrade, Kenya Valéria Micaela de Souza Noronha, Igor Viveiros Melo Souza. 2024. Effect of age-related premium readjustment on health insurance cancellation in Brazil: Regression discontinuity approach. *Health Economics* 5. . [\[Crossref\]](#)
38. Yang Liu. 2024. Can China's belt and road initiative narrow the income gap between the Han people and ethnic minority residents? Evidence from a regression discontinuity design. *Journal of the Asia Pacific Economy* 14, 1-23. [\[Crossref\]](#)
39. Andreas Gerster, Stefan Lamp. 2024. Energy Tax Exemptions and Industrial Production. *The Economic Journal* 134:663, 2803-2834. [\[Crossref\]](#)
40. Konstantinos Matakos, Riikka Savolainen, Orestis Troumpounis, Janne Tukiainen, Dimitrios Xeferis. 2024. Electoral Institutions and Intraparty Cohesion. *Journal of Political Economy Microeconomics* 107, 000-000. [\[Crossref\]](#)
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44. Kaixing Huang, Yaxuan You. 2024. Evaluating the impact of the fourth round of China's poverty alleviation program. *American Journal of Agricultural Economics* 30. . [\[Crossref\]](#)
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52. Deping Zhong, Qibin Lu, Yunxia Zhang, Jing Li, Tianjie Lei, Chengcheng Liu. 2024. How a poverty alleviation policy affected comprehensive disaster risk reduction capacity: Evidence from China's great western development policy. *International Journal of Disaster Risk Reduction* 111, 104656. [[Crossref](#)]
53. Marshall Makate. 2024. Turning the page on energy poverty? Quasi-experimental evidence on education and energy poverty in Zimbabwe. *Energy Economics* 137, 107784. [[Crossref](#)]
54. John Bai, Ting Chen, Xiumin Martin, Chi Wan. 2024. Platform-Provided Disclosure on Investor Base and Entrepreneurial Success: Evidence from Crowdfunding. *The Accounting Review* 99:5, 97-122. [[Crossref](#)]
55. ## ##, ### ##, ## ##, ## ##. 2024. #####(Impact of having full-time dedicated staff for cardiopulmonary resuscitation instruction on out-of-hospital cardiac arrest outcomes: An interrupted time-series analysis). *Nihon Kyukyu Igakukai Zasshi: Journal of Japanese Association for Acute Medicine* 35:9, 297-305. [[Crossref](#)]
56. Xue Shen, Quanyu Yang, Rongjun Ao, Shengsheng Gong. 2024. Rural labor migration and farmers' arrangements of rice production systems in Central China: Insight from the intergenerational division of labor. *Journal of Integrative Agriculture* 23:9, 3200-3214. [[Crossref](#)]
57. George Deltas, Simon J. Evenett. 2024. Language as a trade barrier in public procurement: Evidence from Georgia's policies on English language documentation. *The Quarterly Review of Economics and Finance* vol. 42, 101898. [[Crossref](#)]
58. Geer Ang, Ya Tan, Yingjia Zhai, Fan Zhang, Qinghua Zhang. 2024. Housing wealth, fertility and children's health in China: A regression discontinuity design. *Journal of Health Economics* 97, 102915. [[Crossref](#)]
59. Niko Hauzenberger, Florian Huber, Karin Klieber, Massimiliano Marcellino. 2024. Bayesian neural networks for macroeconomic analysis. *Journal of Econometrics* 80, 105843. [[Crossref](#)]
60. Carl Singleton, Adrian R. Bell, Andy Chung, J. James Reade, Andrew Urquhart. 2024. Scoring goals: The impact of English Premier League football teams on local university admissions. *Economics Letters* 45, 111957. [[Crossref](#)]
61. Min Zhang, Ruoquan Yan, Ping Ye, Jianbo Dong, Na Zhang, Xiaogang He, Rong Zhao. 2024. Does the Comprehensive Commercial Logging Ban Policy in All Natural Forests Affect Farmers' Income? —An Empirical Study Based on County-Level Data in China. *Forests* 15:9, 1634. [[Crossref](#)]
62. Zike Cao, Yingpeng Zhu, Gen Li, Liangfei Qiu. 2024. Consequences of Information Feed Integration on User Engagement and Contribution: A Natural Experiment in an Online Knowledge-Sharing Community. *Information Systems Research* 35:3, 1114-1136. [[Crossref](#)]
63. Alexander Dentler, Enzo Rossi. 2024. Residents' willingness to pay to avoid crime. *Journal of Housing Economics* 42, 102024. [[Crossref](#)]
64. Laure Athias, Pascal Wicht. 2024. Make or buy for public services: Culture matters for efficiency considerations. *The Quarterly Review of Economics and Finance* 19, 101899. [[Crossref](#)]

65. Irina A. Denisova, Irina E. Kalabikhina, Polina O. Kuznetsova. 2024. The Influence of the Regional Maternity Capital Program on Fertility (Case of Yamal-Nenets Autonomous Okrug). *Public Administration. E-journal (Russia)* :105, 2024, 232-243. [[Crossref](#)]
66. HARALD HAU, YI HUANG, CHEN LIN, HONGZHE SHAN, ZIXIA SHENG, LAI WEI. 2024. FinTech Credit and Entrepreneurial Growth. *The Journal of Finance* 44. . [[Crossref](#)]
67. Quentin Brummet, Lindsay Liebert, Thurston Domina, Paul Youngmin Yoo, Andrew Penner. 2024. Early Algebra Affects Peer Composition. *Educational Evaluation and Policy Analysis* 3. . [[Crossref](#)]
68. Chuyan Li, Yinhe Liang, Fan Qin. 2024. The impact of housing wealth on household financial investment. *Applied Economics* 23, 1-17. [[Crossref](#)]
69. Serena Canaan, Pierre Mouganie, Peng Zhang. 2024. The long-run educational benefits of high-achieving classrooms. *Journal of Policy Analysis and Management* . [[Crossref](#)]
70. Xiaoxia Xu, Wenbin Zuo. 2024. Does bike-sharing reduce traffic congestion? Evidence from three mega-cities in China. *PLOS ONE* 19:8, e0306317. [[Crossref](#)]
71. Emmanuel Adu Boahen. 2024. The effect of female secondary education on fertility and the timing of birth: regression discontinuity evidence from Ghana. *Journal of Social and Economic Development* 31. . [[Crossref](#)]
72. Priya Bhatt, Michael E. Shepherd, Tara McKay, Jonathan M. Metzl. 2024. Racializing COVID-19: Race-Related and Racist Language on Facebook, Pandemic Othering, and Concern About COVID-19. *Political Communication* 117, 1-20. [[Crossref](#)]
73. Shaowei Chen. 2024. Enhancing or attenuating? How patronage ties moderate the impact of performance feedback on performance improvement in the public sector. *Public Management Review* 1-20. [[Crossref](#)]
74. Shaowei Chen. 2024. Performance Feedback, Target-Setting, and Data Manipulation in a Multi-Goal Situation: Evidence from Chinese Cities. *Public Performance & Management Review* 1-27. [[Crossref](#)]
75. Jason A. Schoeneberger, Christopher Rhoads. 2024. Analysis of Regression Discontinuity Designs with a Binary Moderating Variable. *American Journal of Evaluation* 21. . [[Crossref](#)]
76. Jisoo Hwang, Seung-sik Hwang, Hyuncheol Bryant Kim, Jungmin Lee, Junseok Lee. 2024. Risk compensation after COVID-19 vaccination: Evidence from vaccine rollout by exact birth date in South Korea. *Health Economics* 33:8, 1811-1830. [[Crossref](#)]
77. Joe Spearing. 2024. The effect of retirement eligibility on mental health in the United Kingdom: Heterogeneous effects by occupation. *Health Economics* 33:8, 1621-1648. [[Crossref](#)]
78. Michael Gelman, Nikolai Roussanov. 2024. Managing Mental Accounts: Payment Cards and Consumption Expenditures. *The Review of Financial Studies* 37:8, 2586-2624. [[Crossref](#)]
79. Christiaan Behrens, Gerben de Jong, Jos van Ommeren. 2024. From silver to platinum: The impact of frequent flier tier levels on air travellers' behaviour. *Transportation Research Part B: Methodological* 186, 102986. [[Crossref](#)]
80. Michele J. Aquino, Seth Gershenson. 2024. Expecting the Expected? Documenting Nostalgia Effects on Baseball Card Prices. *Journal of Sports Economics* 25:6, 683-706. [[Crossref](#)]
81. Zhangkai Huang, Jinyu Liu, Guangrong Ma, Lixin Colin Xu. 2024. Political determinants of privatizations in China: A natural experiment based on politician career concerns. *Journal of Corporate Finance* 87, 102620. [[Crossref](#)]



82. Duckki Cho, Lyungmae Choi. 2024. Shadow union in local labor markets and corporate financing policies. *Journal of Corporate Finance* **108**, 102644. [[Crossref](#)]
83. Enhui Chen, Yang Liu, Min Yang, Zhirui Ye, Yu (Marco) Nie. 2024. The sustainability appeal of urban rail transit. *Transportation Research Part A: Policy and Practice* **186**, 104152. [[Crossref](#)]
84. Ricky Kanabar, Satu Nivalainen, Noora Järnefelt. 2024. ‘Relabelling’ of individual early retirement pension in Finland: Application and behavioural responses using Finnish register data. *Journal of Economic Behavior & Organization* **224**, 20–38. [[Crossref](#)]
85. Yangyang Chen, Lijun Ma, Jeffrey Pittman, Xin Yang. 2024. Penny Wise and Pound Foolish: Does Striving to Meet Earnings Expectations by Manipulating Real Activities Trigger Product Recalls?. *Management Science* **70**. . [[Crossref](#)]
86. Guto Ifan. 2024. Bangers and cash: partisan bias in local government grant allocations across Great Britain. *Regional Studies* **40**, 1–15. [[Crossref](#)]
87. Brian G. Moss. 2024. Unlocking the Potential of the Regression Discontinuity Design for Social Work Research. *Research on Social Work Practice* . [[Crossref](#)]
88. Arie Kapteyn, Elena Stancanelli. 2024. A tale of Work from Home in the aftermath of the Great Recession: Learning from high-frequency diaries. *Review of Economics of the Household* **126**. . [[Crossref](#)]
89. Xin Li, Kyung-Min Nam, Zheng Chang. 2024. Can Property Taxation Fix China’s Housing Market?: A Regression Discontinuity Analysis. *Housing Policy Debate* **5**, 1–18. [[Crossref](#)]
90. Jackson Jinhong Mi, Yicheng Wang. 2024. How do industries recover through Covid-19 pandemic? An empirical investigation on Chinese online recruitment data. *Applied Economics Letters* **31**:12, 1083–1089. [[Crossref](#)]
91. Wooseok Jung, Amanda Sharkey, David Tan. 2024. Corporate social responsibility at the margins: Firms’ responses to marginal inclusion on the Vault Law 100 ranking. *Strategic Management Journal* **36**. . [[Crossref](#)]
92. Kao-Ping Chua, Rena M. Conti, Pooja Lagisetty, Amy S. Bohnert, Sijia He, Thuy D. Nguyen. 2024. Association Between Cost Sharing and Naloxone Prescription Dispensing. *JAMA* **332**:2, 124. [[Crossref](#)]
93. Mette Foged, Linea Hasager, Giovanni Peri, Jacob Nielsen Arendt, Iben Bolvig. 2024. Language Training and Refugees’ Integration. *Review of Economics and Statistics* **106**:4, 1157–1166. [[Crossref](#)]
94. John Bovay. 2024. Shaming, stringency, and shirking: Evidence from food-safety inspections. *American Journal of Agricultural Economics* **156**. . [[Crossref](#)]
95. Shaowei Chen. 2024. Performance feedback, blame avoidance, and data manipulation in the public sector: evidence from China’s official city air quality ranking. *Public Management Review* **26**:7, 1871–1891. [[Crossref](#)]
96. Maureen Cropper, Palak Suri. 2024. Measuring the air pollution benefits of public transport projects. *Regional Science and Urban Economics* **107**, 103976. [[Crossref](#)]
97. David S. Lucas. 2024. The effect of regime change on entrepreneurship: A real options approach with evidence from US gubernatorial elections. *Journal of Business Venturing* **39**:4, 106394. [[Crossref](#)]
98. Hyun Joong Im, Srinivasan Selvam, Kelvin J.K. Tan. 2024. Effect of stock liquidity on the economic value of patents: Evidence from U.S. patent data. *International Review of Financial Analysis* **94**, 103314. [[Crossref](#)]

99. Yiannis Kountouris, Kyriaki Remoundou. 2024. Education and vaccine hesitancy: Evidence from the Covid-19 pandemic. *Economics Letters* **240**, 111768. [[Crossref](#)]
100. Jonas Jessen, Daniel Kuehnle, Markus Wagner. 2024. Long-Run Effects of Earlier Voting Eligibility on Turnout and Political Involvement. *The Journal of Politics* **86**:3, 1045-1059. [[Crossref](#)]
101. Marc K. Chan, Nicolas Hérault, Ha Vu, Roger Wilkins. 2024. The Effect of Job Search Requirements on Family Welfare Receipt. *Journal of Labor Economics* **42**:3, 635-657. [[Crossref](#)]
102. Domenico Depalo. 2024. Gloomy expectations after the invasion of Ukraine. *Empirical Economics* **67**:1, 97-109. [[Crossref](#)]
103. Julio Cáceres-Delpiano, Eugenio Giolito. 2024. School starting age and the impact on school admission. *Empirical Economics* **67**:1, 225-251. [[Crossref](#)]
104. Govert E. Bijwaard, Andrew M. Jones. 2024. Regression discontinuity design with principal stratification in the mixed proportional hazard model: an application to the long-run impact of education on longevity. *Empirical Economics* **67**:1, 197-223. [[Crossref](#)]
105. Shichao Du. 2024. Planning for a delay? Horizontal stratification in higher education and the intended age at marriage. *Higher Education* **88**:1, 279-295. [[Crossref](#)]
106. Laura V. Zimmermann. 2024. Why Guarantee Employment? Evidence from a Large Indian Public-Works Program. *Economic Development and Cultural Change* **72**:4, 2031-2067. [[Crossref](#)]
107. Jie Zhou. 2024. Creditors' Role in Shaping Asymmetric Cost Behavior: Evidence from Debt Covenant Violation. *Journal of Management Accounting Research* **36**:2, 179-202. [[Crossref](#)]
108. Javiera Cartagena-Farias, Nicola Brimblecombe, Martin Knapp. 2024. Evaluating the association between receipt of a winter fuel cash transfer and older people's care needs, quality of life, and housing quality: evidence from England. *Social Science & Medicine* **168**, 117128. [[Crossref](#)]
109. Mengbing Du, Shouzhi Xia, Ning Qiu. 2024. Sorrow under prosperity: how downtown residence influences the welfare of disabled people in China. *Journal of Asian Public Policy* **7**, 1-20. [[Crossref](#)]
110. Lam Ho Bao. 2024. Historical state and its legacy: another perspective on Dai Viet–Khmer economic division in Vietnam. *Empirical Economics* **22**. . [[Crossref](#)]
111. Bochuan Yang, Tengchong Xu. 2024. Assessing the Influence of Country-by-Country Reporting (CbCr) on Cross-Border Related Party Transactions: Insights from China. *Journal of the Knowledge Economy* **188**. . [[Crossref](#)]
112. Adam C Sales. 2024. Sequential specification tests to choose a model: A change-point approach. *Communications in Statistics - Theory and Methods* **53**:12, 4354-4368. [[Crossref](#)]
113. Bharadwaj Kadiyala, Özalp Özer, A. Serdar Şimşek. 2024. Dual Value of Delayed Incentives: An Empirical Investigation of Gift Card Promotions. *Manufacturing & Service Operations Management* **86**. . [[Crossref](#)]
114. Miyuki Sasaki, Yuki Higuchi, Makiko Nakamuro, Carsten Roever, Tomoko Yashima. 2024. Introducing regression discontinuity design to applied linguistics. *Study Abroad Research in Second Language Acquisition and International Education* **9**:2, 217-244. [[Crossref](#)]
115. Justin Callais, Kerianne Lawson. 2024. Impact of R1 classification on universities. *Applied Economics* 1-13. [[Crossref](#)]

116. Jingjing Hu, Weihua Yu, Chenchen Deng. 2024. Adversity breeds ingenuity: exploring the enduring effect of historical Yellow River flooding on family firm innovation. *Applied Economics* **75**, 1-14. [[Crossref](#)]
117. Scott W. Desposato, Cal Zurich, Jason Y. Wu. 2024. The participatory legacy of mobilization and repression: evidence from a student movement. *Social Movement Studies* 1-21. [[Crossref](#)]
118. Jens Forderer, Gordon Burtch. 2024. Estimating Career Benefits from Online Community Leadership: Evidence from Stack Exchange Moderators. *Management Science* **100**. . [[Crossref](#)]
119. Issa J. Dahabreh, Kirsten Bibbins-Domingo. 2024. Causal Inference About the Effects of Interventions From Observational Studies in Medical Journals. *JAMA* **331**:21, 1845. [[Crossref](#)]
120. Giuseppe Albanese, Vincenzo Carrieri, Antonella Rita Ferrara, Maria Maddalena Speziali. 2024. Beyond GDP: assessing the impact of the 2007–13 EU Cohesion Policy. *Regional Studies* **53**, 1-21. [[Crossref](#)]
121. Tao Lin, Zhao Chen. 2024. Government cooperation, market integration, and productivity: evidence from China. *Applied Economics* **56**:26, 3078-3097. [[Crossref](#)]
122. Philippe d'Astous, Stephen H. Shore. 2024. Programs of study and earnings dynamics. *Labour Economics* **88**, 102532. [[Crossref](#)]
123. Weihua Yu, Jingjing Hu, Chenchen Deng. 2024. Overflowing waters, diluted investments: The enduring impact of historical Yellow River floods on enterprise fixed assets investments. *Journal of Asian Economics* **92**, 101719. [[Crossref](#)]
124. Alessandro Belmonte, Harry Pickard. 2024. Safe at Last? Late Effects of a Mass Immunization Campaign on Households' Economic Insecurity. *Review of Income and Wealth* **70**:2, 466-497. [[Crossref](#)]
125. Margaux Luflade, Meryam Zaiem. 2024. Do elite schools improve students performance? Evidence from Tunisia. *Economics of Education Review* **100**, 102542. [[Crossref](#)]
126. Salim Atay, Gunes A. Asik, Semih Tumen. 2024. Impact of Graduating with Honours on Entry Wages of Economics Majors\*. *Oxford Bulletin of Economics and Statistics* **86**:3, 606-640. [[Crossref](#)]
127. Shujing Wang, Hongjun Yan, Ninghua Zhong, Yizhou Tang. 2024. Indirect effects of trading restrictions. *Journal of Corporate Finance* **86**, 102580. [[Crossref](#)]
128. Giuseppe Cappelletti, Aurea Ponte Marques, Paolo Varraso. 2024. Impact of higher capital buffers on banks' lending and risk-taking in the short- and medium-term: Evidence from the euro area experiments. *Journal of Financial Stability* **72**, 101250. [[Crossref](#)]
129. Shiro Furuya, Jason M. Fletcher. 2024. Retirement Makes You Old? Causal Effect of Retirement on Biological Age. *Demography* **61**:3, 901-931. [[Crossref](#)]
130. Dao Van Le, Tuyen Quang Tran. 2024. Evaluating the impact of the government loan program on farms in Vietnam: An application of fuzzy regression discontinuity design. *Poverty & Public Policy* **16**:2, 146-171. [[Crossref](#)]
131. Barış K. Yörük, Yiran Han. 2024. Age-based health insurance coverage policies and mental health. *Journal of Population Economics* **37**:2. . [[Crossref](#)]
132. Camila Morales, Monica Mogollon. 2024. The effects of a newcomer program on the academic achievement of English Learners. *Journal of Policy Analysis and Management* **43**:3, 735-760. [[Crossref](#)]

133. Piotr Danisewicz, Steven Ongena. 2024. Fiscal transfers, local government, and entrepreneurship. *Journal of Policy Analysis and Management* **43**:3, 818-845. [[Crossref](#)]
134. Nathalie Havet, Guy Lacroix, Morgane Plantier. 2024. The impact of parental benefits on disadvantaged households. *Journal of Policy Analysis and Management* **43**:3, 761-779. [[Crossref](#)]
135. Yu Luo, Ming-ang Zhang, Gaoyi Lin. 2024. Unexpected environmental pollution: The cross-sector spillover effect of tax administration. *China Economic Quarterly International* **4**:2, 94-106. [[Crossref](#)]
136. Andrea Caragliu, Paolo Landoni. 2024. Firm cooperation policies: the impact of territorial spillovers. *The Annals of Regional Science* **73**:1, 363-396. [[Crossref](#)]
137. Zhao Kai, Huang Hua-hua, Liu Xiao-man, Wu Wan-shu. 2024. Relationship Between Beijing-Tianjin-Hebei Urban Agglomeration Construction and Enterprise Innovation: Based on Geographic Regression Discontinuity Design. *Journal of the Knowledge Economy* **15**:2, 5382-5406. [[Crossref](#)]
138. Jacob Nielsen Arendt. 2024. Welfare Benefit Generosity and Refugee Integration. *International Migration Review* **58**:2, 706-733. [[Crossref](#)]
139. Masashi Horiguchi, Hideharu Tanaka, Hiroshi Takyu, Hiroki Ueta, Ryo Sagisaka. 2024. Effects of the COVID-19 pandemic and the introduction of information and communication technology in emergency scenes on the emergency transport environment in Japan. *Journal of EMS Medicine* **3**:2, 45-54. [[Crossref](#)]
140. Matilde Cappelletti, Leonardo M. Giuffrida, Gabriele Rovigatti. 2024. Procuring Survival\*. *The Journal of Industrial Economics* **132**. . [[Crossref](#)]
141. David M. Brasington. 2024. Population growth in growing and declining cities: the role of balanced-budget increases in local government spending. *The Annals of Regional Science* **93**. . [[Crossref](#)]
142. Tao Lin, Wenhao Qian. 2024. Water quality monitoring and mortality: evidence from China. *Applied Economics* **56**:24, 2819-2835. [[Crossref](#)]
143. Abdoulganiour Almame Tinta, Aimé Okoko, Edmond Lankouande. 2024. From Light to Income: Solar PV Technology. *Journal of the Knowledge Economy* **3**. . [[Crossref](#)]
144. Bin Wang, Aslan Amat Senin, Ungku NorulKamar Ungku Ahmad. 2024. The role of regulatory policies in organizational culture: Insights from the education industry. *PLOS ONE* **19**:5, e0299848. [[Crossref](#)]
145. Olivier B. Bargain, Anders B. Jonassen. 2024. New Evidence on Welfare's Disincentive for the Youth Using Administrative Panel Data. *Review of Economics and Statistics* **106**:3, 655-670. [[Crossref](#)]
146. Abdulaziz Reshid, Peter Svensson, Nancy Steinbach. 2024. The long-term effects of R&D subsidies on firm performance: evidence from a regression discontinuity design. *Economics of Innovation and New Technology* **10**, 1-24. [[Crossref](#)]
147. Asha Shepard. 2024. Arrested development: relative school entry age and arrests during the teenage and young adult years. *Education Economics* **32**:3, 275-297. [[Crossref](#)]
148. Agung Satyadini, Arifin Rosid. 2024. Does Tax Simplification Motivate Small Businesses to be More Compliant? Evidence from a Regression Discontinuity in Indonesia. *Bulletin of Indonesian Economic Studies* **60**:2, 217-238. [[Crossref](#)]
149. Abdellatif Chatri, Najia Tahir. 2024. Temporary wage subsidies and post-COVID re-employment in Morocco: a regression discontinuity approach. *International Review of Applied Economics* **38**:3, 357-375. [[Crossref](#)]

150. Helena Nilsson, Mikaela Backman. 2024. An empirical application of herding behavior and compliance in the COVID-19 crisis. *Kyklos* 77:2, 428-457. [[Crossref](#)]
151. Noelia Bernal, Javier Olivera, Marc Suhrcke. 2024. The effects of social pensions on nutrition-related health outcomes of the poor: Quasi-experimental evidence from Peru. *Health Economics* 33:5, 971-991. [[Crossref](#)]
152. Aysun Hızıroğlu Aygün, Murat Güray Kırdar, Murat Koyuncu, Quentin Stoeffler. 2024. Keeping refugee children in school and out of work: Evidence from the world's largest humanitarian cash transfer program. *Journal of Development Economics* 168, 103266. [[Crossref](#)]
153. Han Zou. 2024. Environmental regulation, corporate strategy and trade costs: a regression discontinuity in time design. *Environment, Development and Sustainability* 26:5, 12163-12191. [[Crossref](#)]
154. Felix Dewald, Gertrud Steger, Irina Fish, Ivonne Torre-Lage, Christina Hellriegel, Esther Milz, Anja Kolb-Bastigkeit, Eva Heger, Mira Fries, Michael Buess, Niklas Marizy, Barbara Michaelis, Isabelle Suárez, Gibran Horemheb Rubio Quintanares, Martin Pirkel, Annette Aigner, Max Oberste, Martin Hellmich, Anabelle Wong, Juan Camilo Orduz, Gerd Fätkenheuer, Jörg Dötsch, Annelene Kossow, Eva-Maria Moench, Gustav Quade, Udo Neumann, Rolf Kaiser, Madlen Schranz, Florian Klein. 2024. SARS-CoV-2 Test-to-Stay in Daycare. *Pediatrics* 153:5. . [[Crossref](#)]
155. Kevin Ng, Evan Riehl. 2024. The Returns to STEM Programs for Less-Prepared Students. *American Economic Journal: Economic Policy* 16:2, 37-77. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
156. Juan Camilo David Gomez, Amy L. Cochran, Brian W. Patterson, Gabriel Zayas-Cabán. 2024. Evaluation of a Split Flow Model for the Emergency Department. *Manufacturing & Service Operations Management* 26:3, 911-930. [[Crossref](#)]
157. Corrado Di Maria, Emiliya Lazarova, Lan Lange. 2024. Political ‘Colour’ and Firm Behaviour: Evidence from U.S. Power Plants’ Pollution Abatement. *Environmental and Resource Economics* 87:5, 1141-1174. [[Crossref](#)]
158. C. S. Agnes Cheng, Bill B. Francis, Zhi Li, Yinjie Shen, Qiang Wu. 2024. Do creditor control rights impact corporate tax aggressiveness? Evidence from debt covenant violations. *Journal of Business Finance & Accounting* 51:5-6, 1084-1119. [[Crossref](#)]
159. Haitian Xie. 2024. Nonlinear and nonseparable structural functions in regression discontinuity designs with a continuous treatment. *Journal of Econometrics* 242:1, 105784. [[Crossref](#)]
160. Jin Zhang, Dan Shi, Lianrui Ma, Yuan Wu, Shoulin Liu, Jinkai Li. 2024. The role of household energy consumption behavior in environmental policy outcomes —the case of driving restriction policy in zhengzhou. *Energy Policy* 188, 114096. [[Crossref](#)]
161. Raffi E. García, Jyothsna Harithsa, Abena Owusu. 2024. Adding stress in banking: Stress tests and risk-taking sentiments. *Journal of Corporate Finance* 34, 102596. [[Crossref](#)]
162. Marco Stam, Marike Knoef, Anke Ramakers. 2024. Mandatory activation of welfare recipients: Less time, less crime?. *Labour Economics* 52, 102571. [[Crossref](#)]
163. Hyemin Kim. 2024. Effects of customer unionization on supplier relationships and supplier value. *Journal of Empirical Finance* 38, 101515. [[Crossref](#)]
164. Weihua Yu, Jingjing Hu. 2024. The long-term effects of natural disasters on human capital accumulation: a quasi-natural experiment based on the Yellow River floodplain area. *Environment and Development Economics* 78, 1-17. [[Crossref](#)]

165. Caio Piza, André Portela Souza, Patrick M Emerson, Vivian Amorim. 2024. The Short- and Longer-Term Effects of a Child Labor Ban. *The World Bank Economic Review* **38**:2, 351-370. [[Crossref](#)]
166. Michael Fröhlich, Isabell Welp. 2024. Self-Selection into Entrepreneurship Education and Implications for Evaluation. *Entrepreneurship Education and Pedagogy* **51**. . [[Crossref](#)]
167. Xiao Huang, Zhaoguo Zhan. 2024. Does Health Behavior Change After Diagnosis? Evidence From Fuzzy Regression Discontinuity. *Journal of Econometric Methods* **13**:1, 97-116. [[Crossref](#)]
168. Lichen Zhen, Marlon Twyman. 2024. Do inclusive incentive systems encourage prosocial or competitive behavior in online communities?. *New Media & Society* . [[Crossref](#)]
169. Lukang Huang, Wei Huang, Oliver Linton, Zheng Zhang. 2024. Nonparametric estimation of mediation effects with a general treatment. *Econometric Reviews* **43**:2-4, 215-237. [[Crossref](#)]
170. Maja Popovic, Daniela Zugna, Kate Tilling, Lorenzo Richiardi. 2024. Regression discontinuity design for the study of health effects of exposures acting early in life. *Frontiers in Public Health* **12**. . [[Crossref](#)]
171. Andrew E Clark, Rong Zhu. 2024. Taking Back Control? Quasi-Experimental Evidence on the Impact of Retirement on Locus of Control. *The Economic Journal* **134**:660, 1465-1493. [[Crossref](#)]
172. Ryota Nakamura, Andrea Albanese, Emma Coombes, Marc Suhrcke. 2024. Do economic incentives promote physical activity? Evidence from the London Congestion Charge. *Journal of the Royal Statistical Society Series A: Statistics in Society* **187**:2, 305-320. [[Crossref](#)]
173. Ole-Andreas Elvik Naess. 2024. Increasing turnout with a text message: evidence from a large campaign from the government. *Journal of Elections, Public Opinion and Parties* **34**:2, 212-230. [[Crossref](#)]
174. An Nguyen, Arun Rai, Likoebe Maruping. 2024. Understanding the Unintended Effects of Human-Machine Moderation in Addressing Harassment within Online Communities. *Journal of Management Information Systems* **41**:2, 341-366. [[Crossref](#)]
175. Christoph Ratay, Thomas L. Webb, Wendy Wood, Alwine Mohnen. 2024. Does a holiday break disrupt pro-environmental behaviors? Using field data to test the durability of pro-environmental behaviors and the moderating effect of habit. *Resources, Conservation and Recycling* **203**, 107440. [[Crossref](#)]
176. Francesco Amodio, Giorgio Chiovelli, Sebastian Hohmann. 2024. The Employment Effects of Ethnic Politics. *American Economic Journal: Applied Economics* **16**:2, 456-491. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
177. Jakub Grossmann, Štěpán Jurajda, Felix Roesel. 2024. Forced Migration, Staying Minorities, and New Societies: Evidence from Postwar Czechoslovakia. *American Journal of Political Science* **68**:2, 751-766. [[Crossref](#)]
178. Kate Ambler, Alan de Brauw. 2024. Cash Transfers and Women's Agency: Evidence from Pakistan's BISP Program. *Economic Development and Cultural Change* **72**:3, 1117-1150. [[Crossref](#)]
179. Stefano Mainardi. 2024. Electrification, regulation and electricity access backlogs: regional development and border discontinuities across African power pools. *Energy Efficiency* **17**:4. . [[Crossref](#)]
180. Tianyu Wang, Ruochen Sun, Jody L. Sindelar, Xi Chen. 2024. Occupational differences in the effects of retirement on hospitalizations for mental illness among female workers: Evidence from administrative data in China. *Economics & Human Biology* **53**, 101367. [[Crossref](#)]
181. Wenjie Wang, Yichong Zhang. 2024. Wild bootstrap inference for instrumental variables regressions with weak and few clusters. *Journal of Econometrics* **241**:1, 105727. [[Crossref](#)]



182. Yu-Chin Hsu, Ji-Liang Shiu, Yuanyuan Wan. 2024. Testing identification conditions of LATE in fuzzy regression discontinuity designs. *Journal of Econometrics* **241**:1, 105738. [[Crossref](#)]
183. Pasquale Giacobbe, Patrizia Ordine, Giuseppe Rose. 2024. The effects of relaxing fiscal rules on Political Budget Cycle: A difference-in-discontinuities analysis on Italian municipalities. *Electoral Studies* **88**, 102761. [[Crossref](#)]
184. Hongyan Liu, Hanyu Pan. 2024. Reducing carbon emissions at the expense of firm physical capital investments and growing financialization? Impacts of carbon trading policy from a regression discontinuity design. *Journal of Environmental Management* **356**, 120577. [[Crossref](#)]
185. Ruidi Huang. 2024. The Financial Consequences of Online Review Aggregators: Evidence from Yelp Ratings and SBA Loans. *Management Science* **122**. . [[Crossref](#)]
186. Justin de Benedictis-Kessner, Daniel Jones, Christopher Warshaw. 2024. How partisanship in cities influences housing policy. *American Journal of Political Science* **40**. . [[Crossref](#)]
187. Sounman Hong, Suho Ji, Taek Kyu Kim. 2024. Performance management and political accountability: how local governments respond to performance feedback. *Asia Pacific Journal of Public Administration* **39**, 1-23. [[Crossref](#)]
188. Kalpita Baird, Ailish Byrne, Sarah Cockayne, Rachel Cunningham-Burley, Caroline Fairhurst, Joy Adamson, Wesley Vernon, David J. Torgerson. 2024. Can routine assessment of older people's mental health lead to improved outcomes: A regression discontinuity analysis. *PLOS ONE* **19**:3, e0300651. [[Crossref](#)]
189. Henrik Andersson, Per Engström, Katarina Nordblom, Susanna Wanander. 2024. Nudges and threats: soft versus hard incentives for tax compliance. *Economic Policy* **38**:116, 771-819. [[Crossref](#)]
190. Travis A. Smith, Pourya Valizadeh. 2024. Aging out of WIC and child nutrition: Evidence from a regression discontinuity design. *American Journal of Agricultural Economics* **106**:2, 904-924. [[Crossref](#)]
191. Dai Van Pham. 2024. The effects of superstition on firms' investment behavior: Evidence from Vietnam, an irreligious country#. *Journal of Comparative Economics* **52**:1, 1-27. [[Crossref](#)]
192. Giuseppe Francesco Gori, Patrizia Lattarulo, Marco Mariani, Laura Razzolini. 2024. The Expediting Effect of Monitoring on Infrastructural Works. A Regression-Discontinuity Approach with Multiple Assignment Variables. *Italian Economic Journal* **10**:1, 197-224. [[Crossref](#)]
193. Ziyang Yang, Jie Gao, Du Yu. 2024. Cognition ability, financial advice seeking, and investment performance: New evidence from China. *International Review of Finance* **24**:1, 53-82. [[Crossref](#)]
194. Trent J. Krupa. 2024. Do Enterprise Risk Assessments Affect Tax Aggressiveness? Evidence from U.S. ORSA Regulation. *The Accounting Review* **99**:2, 307-339. [[Crossref](#)]
195. Seongmin Seo, Sang Soo Park. 2024. Entry regulations with implementation lag: Evidence from convenience store markets in Korea. *International Journal of Industrial Organization* **93**, 103057. [[Crossref](#)]
196. Kun Yang, Jinrui Yao, Yin Huang, Huiyan Ling, Yu Yang, Lin Zhang, Diyun Chen, Yuxian Liu. 2024. Evaluating the Effectiveness of the "River Chief System": An Empirical Study Based on the Water Quality Data of Coastal Rivers in Guangdong Province. *Water* **16**:5, 790. [[Crossref](#)]
197. Guy Tchuente, Johnson Kakeu, John Nana Francois. 2024. The forest behind the tree: Heterogeneity in how U.S. Governor's party affects black workers. *The Review of Black Political Economy* **51**:1, 121-147. [[Crossref](#)]

198. Ha Trong Nguyen, Francis Mitrou, Stephen R. Zubrick. 2024. Retirement, housing mobility, downsizing and neighbourhood quality - A causal investigation. *Journal of Housing Economics* **63**, 101977. [[Crossref](#)]
199. Nicolas Lagios, Pierre-Guillaume Méon. 2024. Experts, Information, Reviews, and Coordination: Evidence on How Prizes Affect Sales\*. *The Journal of Industrial Economics* **72**:1, 49-80. [[Crossref](#)]
200. Marco Menner, Frederic Menninger. 2024. The causal effect of corporate governance on employee satisfaction. *Journal of Financial Research* **47**:1, 123-146. [[Crossref](#)]
201. Maria Knoth Humlum, Marius Opstrup Morthorst, Peter Rønø Thingholm. 2024. Sibling spillovers and the choice to get vaccinated: Evidence from a regression discontinuity design. *Journal of Health Economics* **94**, 102843. [[Crossref](#)]
202. Nathan Kettlewell, Yuting Zhang. 2024. Financial incentives and private health insurance demand on the extensive and intensive margins. *Journal of Health Economics* **94**, 102863. [[Crossref](#)]
203. Ajin Lee, Boris Vabson. 2024. The value of improving insurance quality: Evidence from long-run Medicaid attrition. *Journal of Health Economics* **94**, 102865. [[Crossref](#)]
204. David M. Brasington, Olivier Parent. 2024. Fire protection services and house prices: A regression discontinuity investigation. *Regional Science and Urban Economics* **105**, 103984. [[Crossref](#)]
205. Yongheng Deng, Congyan Han, Teng Li, Yonglin Wang. 2024. The effectiveness and consequences of the government's interventions for Hong Kong's residential housing markets. *Real Estate Economics* **52**:2, 324-365. [[Crossref](#)]
206. Cecilia Parada. 2024. Fertility responses to cash transfers in Uruguay. *World Development Perspectives* **33**, 100574. [[Crossref](#)]
207. Junfeng Qiao, Jinbo Lyu, Xingyi Yin. 2024. Do intergovernmental transfers accelerate the formation of zombie firms? A study based on fuzzy regression discontinuity analysis. *Economic Analysis and Policy* **81**, 1241-1256. [[Crossref](#)]
208. Daniel C. Fehder. 2024. Coming from a Good Pond: The Influence of a New Venture's Founding Ecosystem on Accelerator Performance. *Administrative Science Quarterly* **69**:1, 1-38. [[Crossref](#)]
209. Junbo Wang, Zhenyu Ma, Jin Sun. 2024. Distance makes a difference: The role of water pollution regulation on firms' innovation in China. *Journal of Cleaner Production* **446**, 141485. [[Crossref](#)]
210. Sebastian Calonico, Neal Jawadekar, Katrina Kezios, Adina Zeki Al Hazzouri. 2024. Regression discontinuity design studies: a guide for health researchers. *BMJ* **14**, e072254. [[Crossref](#)]
211. Touria Jaaidane, Sophie Larribeau. 2024. Le rôle politique de la dotation globale de fonctionnement. *Revue d'économie politique* **Vol. 134**:1, 11-47. [[Crossref](#)]
212. Rubén Pobleto-Cazenave. 2024. Asymmetric crime dynamics in and out of lockdowns. *The Journal of Law, Economics, and Organization* **194**. . [[Crossref](#)]
213. Thiess Buettner, Anne Kesselring. 2024. Banning Products with Low Energy Efficiency: Market Response and Adjustment Cost. *Journal of the Association of Environmental and Resource Economists* **9**. . [[Crossref](#)]
214. Vivek Astvansh, Beibei Wang, Tao Chen, Jimmy Chengyuan Qu. 2024. Labor unionization and real earnings management: Evidence from labor elections. *PLOS ONE* **19**:2, e0292889. [[Crossref](#)]
215. Tingting Han, Dong Yang, Ping Ji, Cheuk Li (Charade) Wu. 2024. Effect of online quotation platform on container shipping orders. *Maritime Policy & Management* **51**:2, 159-173. [[Crossref](#)]

216. Segundo Camino-Mogro. 2024. From the paper age to the electronic age: an electronic business registry reform in Ecuador. *Economics of Innovation and New Technology* **1**, 1-23. [[Crossref](#)]
217. Juerong Huang, Hongjing Dang, Yue Hu, Qihui Chen. 2024. Effects of hypertension diagnoses on alcohol consumption among Chinese Adults—A Two-dimensional regression discontinuity analysis. *Journal of Wine Economics* **13**, 1-34. [[Crossref](#)]
218. Praveen Bhagawan, Jyoti Prasad Mukhopadhyay. 2024. Does mandatory expenditure on CSR affect firm value? Empirical evidence from Indian firms. *Journal of Accounting Literature* **127**. . [[Crossref](#)]
219. Winfred Ayertey, Ayyoob Sharifi, Yuichiro Yoshida. 2024. The impact of increase in block pricing on electricity demand responsiveness: Evidence from Ghana. *Energy* **288**, 129858. [[Crossref](#)]
220. Tatiana Paredes, Almudena Sevilla. 2024. The impact of incentivizing training on students' outcomes. *Economics of Education Review* **98**, 102489. [[Crossref](#)]
221. Gonul Colak, Timo P. Korkeamäki, Niclas Oskar Meyer. 2024. ESG and CEO turnover around the world. *Journal of Corporate Finance* **84**, 102523. [[Crossref](#)]
222. Felipe Carozzi, Davide Cipullo, Luca Repetto. 2024. Powers that be? Political alignment, government formation, and government stability. *Journal of Public Economics* **230**, 105017. [[Crossref](#)]
223. Matthew Collins, Jonas Lundstedt. 2024. The effects of more informative grading on student outcomes. *Journal of Economic Behavior & Organization* **218**, 514-549. [[Crossref](#)]
224. Byeung-Kuk Oh. 2024. Retirement and healthcare utilization: Evidence from pension eligibility ages in South Korea. *The Journal of the Economics of Ageing* **27**, 100498. [[Crossref](#)]
225. Sanjukta Das, Debojyoti Majumder, Manabendra Nath Roy. 2024. No water, no job? Water scarcity, marginal farmers and livelihoods in Eastern India. *GeoJournal* **89**:1. . [[Crossref](#)]
226. Alexander W. Carter, Sahan Jayawardana, Joan Costa-Font, Khurram Nasir, Harlan M. Krumholz, Elias Mossialos. 2024. How to Use Quasi-Experimental Methods in Cardiovascular Research: A Review of Current Practice. *Circulation: Cardiovascular Quality and Outcomes* **17**:2. . [[Crossref](#)]
227. Paolo Bonnet, Alessandro Olper. 2024. Party affiliation, economic interests and U.S. governors' renewable energy policies. *Energy Economics* **130**, 107259. [[Crossref](#)]
228. Caroline Krafft, Moundir Lassassi. 2024. Public Pre-Primary and Maternal Employment in Algeria: Evidence from a Natural Experiment. *The World Bank Economic Review* **38**:1, 74-94. [[Crossref](#)]
229. Luyi Han, Zheng Tian, Timothy R. Wojan, Stephan J. Goetz. 2024. Testing biasedness of self-reported microbusiness innovation in the annual business survey. *PLOS ONE* **19**:1, e0296667. [[Crossref](#)]
230. Frederik Wild, David Stadelmann. 2024. Heterogeneous Effects of Women's Schooling on Fertility, Literacy and Work: Evidence from Burundi's Free Primary Education Policy. *Journal of African Economics* **33**:1, 67-91. [[Crossref](#)]
231. Henrique Augusto Campos Fernandez Hott, Naercio Menezes-Filho. 2024. Are newcomers financially responsible? Evidence from close elections in Brazilian Municipalities. *Local Government Studies* **50**:1, 48-86. [[Crossref](#)]
232. Xin Chen. 2024. Local autonomy and service delivery: how does home rule shape the provision of local public services?. *Public Management Review* **26**:1, 1-24. [[Crossref](#)]

233. Andrés Gómez-Lobo, Mauro Gutiérrez, Sandro Huamani, Diego Marino, Tomás Serebrisky, Ben Solís. 2024. Access to water and COVID-19: a regression discontinuity analysis for the peri-urban areas of metropolitan Lima, Peru. *Water International* **49**:1, 52-79. [[Crossref](#)]
234. Samuel Arenberg, Seth Neller, Sam Stripling. 2024. The Impact of Youth Medicaid Eligibility on Adult Incarceration. *American Economic Journal: Applied Economics* **16**:1, 121-156. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
235. Sebastian Axbard, Zichen Deng. 2024. Informed Enforcement: Lessons from Pollution Monitoring in China. *American Economic Journal: Applied Economics* **16**:1, 213-252. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
236. Elizabeth Bell, Katharine Meyer. 2024. Does Reducing Street-Level Bureaucrats' Workload Enhance Equity in Program Access? Evidence from Burdensome College Financial Aid Programs. *Journal of Public Administration Research and Theory* **34**:1, 16-38. [[Crossref](#)]
237. Barry Reilly, Robert Witt. 2024. The Effect of League Design on Club Revenues in the Scottish Premier League. *Eastern Economic Journal* **50**:1, 1-28. [[Crossref](#)]
238. Yang Liu, Yaojun Fan, Yifan Wang, Jiayu Huang, Hu Xun. 2024. City innovation ability and internet infrastructure development: Evidence from the "Broadband China" policy. *Bulletin of Economic Research* **76**:1, 121-146. [[Crossref](#)]
239. Yayan Satyakti. 2024. Did partial lockdown policy effectively reduce the first wave of COVID-19 in Indonesia? A regression discontinuity approach. *Transportation Research Interdisciplinary Perspectives* **23**, 100998. [[Crossref](#)]
240. Xin Ye, Wentao Li, Yanshang Wang, Mingzheng Hu, Dawei Zhu, Xuefeng Shi, Ping He. 2024. Effects of retirement on inpatient healthcare utilisation: an observational study in China. *BMJ Open* **14**:1, e077969. [[Crossref](#)]
241. Suqin Ge, Quqiong He, Sudipta Sarangi. 2024. Reaping what you sow: Historical rice farming and contemporary cooperative behavior in China. *Journal of Economic Behavior & Organization* **217**, 581-613. [[Crossref](#)]
242. Derrick H.W. Siu, Frank P.Y. Lin, Doah Cho, Sarah J. Lord, Gillian Z. Heller, R. John Simes, Chee Khoon Lee. 2024. Framework for the Use of External Controls to Evaluate Treatment Outcomes in Precision Oncology Trials. *JCO Precision Oncology* :8. . [[Crossref](#)]
243. Dongwon Lee, Sujin Min, Sangwon Park. 2024. Political budget cycle and the alignment effect: Evidence from South Korea. *European Journal of Political Economy* **81**, 102485. [[Crossref](#)]
244. Theodore Alysandratos, Thorsten Chmura, Zhe Liang. 2024. One Rule for Thee and Another for Me: Break(Ing) Norms and Leadership. *SSRN Electronic Journal* **82**. . [[Crossref](#)]
245. Guangfei Yang, Yi Ju, Wenli Ni. 2024. Does the air pollution level information matter in public perception? Insights from China. *Journal of Environmental Management* **349**, 119582. [[Crossref](#)]
246. Claire Liu, Jared R. Stanfield. 2024. Do Connections to the U.S. President Enable Regulatory Capture? Evidence from Antitrust Merger Reviews. *SSRN Electronic Journal* **121**. . [[Crossref](#)]
247. Qiaoyu Pan, Kuniaki Sasaki. 2024. Verifying the effectiveness of area division for land and population: The case of the Kofu urban area, Japan. *Asian Transport Studies* **10**, 100124. [[Crossref](#)]
248. Ege Can, Mark W. Nichols. 2024. The Effects of Sports Betting on Cross-Border Substitution in Casino Gambling. *SSRN Electronic Journal* **13**. . [[Crossref](#)]

249. Felix Schönenberger. 2024. Out of Office, Out of Step? Re-election Concerns and Ideological Shirking in Lame Duck Sessions of the U.S. House of Representatives. *SSRN Electronic Journal* 4. . [\[Crossref\]](#)
250. Jiayi Wen, Zixi Ye, Xuan Zhang. 2024. A New Testing Method for Justification Bias Using High-Frequency Data of Health and Employment. *SSRN Electronic Journal* 54. . [\[Crossref\]](#)
251. Yuxin Geng, Raveesh Mayya, Chenshuo Sun. 2024. Token Tradability as a Platform Governance Mechanism: Evidence from a Policy Change. *SSRN Electronic Journal* 3. . [\[Crossref\]](#)
252. Jonathan Gruber, Mengyun Lin, Haoming Liu, Junjian Yi. 2024. How You Pay Drives What You Choose: Health Savings Accounts Versus Cash in Health Insurance Plan Choice. *SSRN Electronic Journal* 101. . [\[Crossref\]](#)
253. Seung Jong Lee, Julian Lehmann, Heewon Chae, Donghyuk Shin, Seigyoung Auh, Sang Pil Han. 2024. Threats or Opportunities? Enhancing Firm Performance in the Era of Generative AI. *SSRN Electronic Journal* 84. . [\[Crossref\]](#)
254. Jacob Goldin, Tatiana Alexandra Homonoff, Neel Lal, Ithai.Lurie@treasury.gov Lurie, Katherine Michelmores. 2024. Child Tax Benefits and Labor Supply: Evidence from California. *SSRN Electronic Journal* 36. . [\[Crossref\]](#)
255. David Macdonald. 2024. Truth in Sentencing, Incentives and Recidivism. *SSRN Electronic Journal* . [\[Crossref\]](#)
256. Fayssal Ayad. 2024. The Jedi Path to Formal Economy: Untangling the Causal Effects of Development on Informality in Africa. *SSRN Electronic Journal* 138. . [\[Crossref\]](#)
257. Brendon McConnell, Jaime Millán-Quijano. 2024. Welfare Eligibility Manipulation: Evidence from Georgia. *SSRN Electronic Journal* . [\[Crossref\]](#)
258. Andrea Marini. 2024. Updating the Retirement-Consumption Puzzle in Italy: Who are the Most Affected?. *SSRN Electronic Journal* 70. . [\[Crossref\]](#)
259. Adam Altmejd, Thomas Jansson, Yigitcan Karabulut. 2024. Business Education and Portfolio Returns. *SSRN Electronic Journal* 126. . [\[Crossref\]](#)
260. Pedro Jorge Holanda Figueiredo Alves, Jevuks Matheus Araujo. 2024. The effects of intergovernmental transfers on the local fiscal incentives of Brazilian municipalities. *Journal of Government and Economics* 13, 100104. [\[Crossref\]](#)
261. Thang Dang. 2024. For Worse or for Better? The Unintended Impacts of an Initial Employment Prohibition on Refugee Health. *SSRN Electronic Journal* 29. . [\[Crossref\]](#)
262. Adam Altmejd. 2024. Inheritance of Fields of Study. *SSRN Electronic Journal* 111. . [\[Crossref\]](#)
263. Lisa Faessler, Rafael Lalive, Charles Efferson. 2024. How culture shapes choices related to fertility and mortality: Causal evidence at the Swiss language border. *Evolutionary Human Sciences* 6. . [\[Crossref\]](#)
264. Amin Sabzehzar, Gordon Burtch, Yili Hong, T. S. Raghu. 2024. The Efficacy of Need-Based Attentional Interventions in Educational Crowdfunding. *SSRN Electronic Journal* 54. . [\[Crossref\]](#)
265. Justin Callais, Kerianne Lawson. 2024. Impact of R1 Classification on Universities. *SSRN Electronic Journal* 99. . [\[Crossref\]](#)
266. Omar Bamieh, Andrea Cintolessi, Mario Pagliero. 2024. Estimating the Returns to Occupational Licensing: Evidence from Regression Discontinuities at the Bar Exam. *SSRN Electronic Journal* . [\[Crossref\]](#)

267. Benjamin Collier, Cameron Ellis. 2024. A Demand Curve for Disaster Recovery Loans. *Econometrica* **92**:3, 713-748. [[Crossref](#)]
268. Michela Carlana, Enrico Miglino, Michela Maria Tincani. 2024. How Far Can Inclusion Go? The Long-Term Impacts of Preferential College Admissions. *SSRN Electronic Journal* **129**. . [[Crossref](#)]
269. Caio Piza, André Souza, Patrick M. Emerson, Vivian Amorim. 2024. The Short-and Longer-Term Effects of a Child Labor Ban. *SSRN Electronic Journal* **8**. . [[Crossref](#)]
270. Jae Hwan Ahn, Sunhwa Choi, Gi H. Kim, Sewon Kwon. 2024. Bonus incentives and losses from early debt extinguishment. *International Review of Financial Analysis* **91**, 103018. [[Crossref](#)]
271. Hanna Virtanen, Mikko Silliman, Tiina Kuuppelomäki, Kristiina Huttunen. 2024. Education, Gender, and Family Formation. *SSRN Electronic Journal* . [[Crossref](#)]
272. Youan WANG, Zhige Yu. 2024. How Labor Unions affect Corporate Environmental and Social Voluntary Disclosures: Theory and Evidence. *SSRN Electronic Journal* **29**. . [[Crossref](#)]
273. Hanna Virtanen, Mikko Silliman, Tiina Kuuppelomäki, Kristiina Huttunen. 2024. Education, Gender, and Family Formation. *SSRN Electronic Journal* **138**. . [[Crossref](#)]
274. Seungho Choi, Ross Levine, Raphael Jonghyeon Park, Simon Xu. 2024. CEO Compensation and Adverse Shocks: Evidence from Changes in Environmental Regulations. *SSRN Electronic Journal* **112**. . [[Crossref](#)]
275. Maria Antonella Mancino, Leonardo Fabio Morales, Diego F. Salazar. 2024. Signaling Worker Quality in a Developing Country: Lessons from a Certification Program. *SSRN Electronic Journal* **88**. . [[Crossref](#)]
276. Felix Schönenberger. 2024. Strategic Policy Responsiveness to Opponent Platforms: Evidence From U.S. House Incumbents Running Against Moderate or Extremist Challengers. *SSRN Electronic Journal* **50**. . [[Crossref](#)]
277. Carl Singleton, Adrian R. Bell, Andy Chung, James Reade, Andrew Urquhart. 2024. Scoring Goals: The Impact of English Premier League Football Teams on Local University Admissions. *SSRN Electronic Journal* **45**. . [[Crossref](#)]
278. Yang Yang, Khim-Yong Goh, Hock Hai Teo, Sharon Swee-Lin Tan. 2024. The Impact of Air Pollution Information on Individuals' Exercise Behavior: Empirical Study Using Wearable and Mobile Devices Data. *JMIR mHealth and uHealth* **12**, e55207. [[Crossref](#)]
279. Qian Liu. 2024. Need-based Financial Aid and Major Choices. *SSRN Electronic Journal* **4**. . [[Crossref](#)]
280. Donna Smith, Andy Handouyahia, Deen Taposh, Danièle Laliberté, Essolaba Aouli, Marie-Gaelle Njambe. The Application of Randomized and Quasi-Experimental Designs in Federal Government Program Evaluation 69-112. [[Crossref](#)]
281. Shigang Zheng. 2023. Estimating the effect of long-term mechanism for real estate in China: a regression discontinuity approach. *Economic Research-Ekonomska Istraživanja* **36**:1. . [[Crossref](#)]
282. Juerong Huang, Yan Cai, Qihui Chen. 2023. Will Disease awareness induce healthier behaviour?—A regression-discontinuity analysis of effects of myopia diagnosis among Chinese adolescents. *Applied Economics* **42**, 1-23. [[Crossref](#)]
283. Linuz Aggeborn, Henrik Andersson, Sirus H. Dehdari, Karl-Oskar Lindgren. 2023. Granting Immigrants the Right to Vote in National Elections: Empirical Evidence from Swedish Administrative Data. *British Journal of Political Science* **16**, 1-18. [[Crossref](#)]



284. Guang Liu, Yuning Huang, Khaldoon Albitar. 2023. The impact of urban housing prices on labour mobility: evidence from cities in China. *Economic Research-Ekonomska Istraživanja* 36:2. . [\[Crossref\]](#)
285. Qiyao Zhou, Debao Hu, Keren Shi. 2023. The persistent effects of early career contracts: evidence from NBA drafts. *Applied Economics* 55:58, 6876-6891. [\[Crossref\]](#)
286. Rafiuddin Najam. 2023. The Taliban's Return to Power: An Empirical Analysis of the Afghan Peace Negotiations of 2018–2020. *Defence and Peace Economics* 94, 1-35. [\[Crossref\]](#)
287. Heeyun Kim, Paula Clasing-Manquian. Quasi-Experimental Methods: Principles and Application in Higher Education Research 43-62. [\[Crossref\]](#)
288. Anna Bindler, Randi Hjalmarsson, Nadine Ketel, Andreea Mitrut. 2023. Discontinuities in the Age-Victimisation Profile and the Determinants of Victimisation. *The Economic Journal* 134:657, 95-134. [\[Crossref\]](#)
289. Kai Liu, Jiayi Zhu, Badar Iqbal, Yating Hao. 2023. The effectiveness and externality of China's outward foreign direct investment policy. *Digital Economy and Sustainable Development* 1:1. . [\[Crossref\]](#)
290. Moon Joon Kim. 2023. Unintended consequences of healthcare reform in South Korea: evidence from a regression discontinuity in time design. *Health Research Policy and Systems* 21:1. . [\[Crossref\]](#)
291. Alessio Gaggero, Joan Gil, Dolores Jiménez-Rubio, Eugenio Zucchelli. 2023. Sick and depressed? The causal impact of a diabetes diagnosis on depression. *Health Economics Review* 13:1. . [\[Crossref\]](#)
292. Juan D. Montoro-Pons, María Caballer-Tarazona, Manuel Cuadrado-García. 2023. Assessing complementarities between live performances and YouTube video streaming. *Empirical Economics* 65:6, 2953-2978. [\[Crossref\]](#)
293. Hoyong Jung. 2023. Do young politicians make a difference? Evidence from local public expenditure in South Korea. *Economics of Governance* 24:4, 473-499. [\[Crossref\]](#)
294. Tanya Y. Tian, Brayden G King, Edward B. Smith. 2023. Effect of organizational status on employment-related corporate social responsibility: Evidence from a regression discontinuity approach. *Strategic Management Journal* 44:12, 2833-2857. [\[Crossref\]](#)
295. Paula Teich, Thea Fühner, Florian Bähr, Christian Puta, Urs Granacher, Reinhold Kliegl. 2023. Covid Pandemic Effects on the Physical Fitness of Primary School Children: Results of the German EMOTIKON Project. *Sports Medicine - Open* 9:1. . [\[Crossref\]](#)
296. Peizhe Yan, Fenghang Li, Stephen Nicholas, Elizabeth Maitland, Jialong Tan, Chen Chen, Jian Wang. 2023. Impact of pension income on healthcare utilization of older adults in rural China. *International Journal for Equity in Health* 22:1. . [\[Crossref\]](#)
297. Luca Repetto, Maximiliano Sosa Andrés. 2023. Divided government, polarization, and policy: Regression-discontinuity evidence from US states. *European Journal of Political Economy* 80, 102473. [\[Crossref\]](#)
298. G. Naveen Kumar. 2023. Improving public school productivity: Evidence from model schools in India. *Economics of Education Review* 97, 102465. [\[Crossref\]](#)
299. Shengfu Yang, Lingyun Zhou, Peng Zhang, Shiming Fang, Weidong Li. 2023. Evaluating the spillover value of ecological products from urban rivers eco-restoration: A quasi-natural experiment in Wuhan, China. *Ecological Indicators* 156, 111095. [\[Crossref\]](#)
300. Xin Meng, Yanni Yu. 2023. Does the Russia-Ukraine conflict affect gasoline prices?. *Energy Economics* 128, 107113. [\[Crossref\]](#)

301. Suresh Bhagavatula, Manaswini Bhalla, Manisha Goel, Balagopal Vissa. 2023. Social diversity in corporate boards and firm outcomes. *Journal of Corporate Finance* **83**, 102499. [[Crossref](#)]
302. Matthias Quinckhardt. 2023. The value of a party: Local politics and the allocation of intergovernmental transfers. *European Journal of Political Economy* **80**, 102470. [[Crossref](#)]
303. Qihong Liang, Yuxuan Chen, Zheng Zhang, Shengli An. 2023. Do the New Rural Pension Scheme promote the health status of chronic patients in old age? —Evidence from CHARLS 2018 in China. *BMC Public Health* **23**:1. . [[Crossref](#)]
304. Michael Conlin, Paul N. Thompson. 2023. Agenda-Setting and Tax Referenda: Implications for Regression Discontinuity Identification Strategy Using Election Outcomes. *National Tax Journal* **76**:4, 869-896. [[Crossref](#)]
305. Tyler T Reny, Benjamin J Newman, John B Holbein, Hans J G Hassell. 2023. Public mass shootings cause large surges in Americans' engagement with gun policy. *PNAS Nexus* **2**:12. . [[Crossref](#)]
306. Chong Lu, Ailin Wu. 2023. Labour market impacts of the equalisation of basic public health and medical services on internal migrants in China. *Asia Pacific Viewpoint* **64**:3, 375-389. [[Crossref](#)]
307. Barry Reilly. 2023. Testing a variant of match-level outcome uncertainty using historical data from the European Champion Clubs' Cup. *Sports Economics Review* **4**, 100022. [[Crossref](#)]
308. Xiekui Zhang, Xinfeng Zuo, Xinjian Chen. 2023. Open doors: The impact of border reforming and opening policies on the regional border economies of China. *International Studies of Economics* **18**:4, 527-546. [[Crossref](#)]
309. Alex Proshin. 2023. Impact of Child Subsidies on Child Health, Well-Being, and Investment in Child Human Capital: Evidence from Russian Longitudinal Monitoring Survey 2010–2017. *European Journal of Population* **39**:1. . [[Crossref](#)]
310. Anja Bondebjerg, Trine Filges, Jan Hyld Pejtersen, Malene Wallach Kildemoes, Hermann Burr, Peter Hasle, Emile Tompa, Elizabeth Bengtsen. 2023. Occupational health and safety regulatory interventions to improve the work environment: An evidence and gap map of effectiveness studies. *Campbell Systematic Reviews* **19**:4. . [[Crossref](#)]
311. Trine Filges, Geir Smedslund, Tine Eriksen, Kirsten Birkefoss. 2023. PROTOCOL: The FRIENDS preventive programme for reducing anxiety symptoms in children and adolescents: A systematic review. *Campbell Systematic Reviews* **19**:4. . [[Crossref](#)]
312. Jinghong Zhou, Xixi Ye. 2023. Aging population and digital inclusive finance, a natural experiment from china. *PLOS ONE* **18**:11, e0287292. [[Crossref](#)]
313. Jong Min Kim, Jeongsoo Han, Shiyu Jiang. 2023. The impact of comment history disclosure on online comment posting behaviors. *Information Technology & People* **36**:7, 2847-2868. [[Crossref](#)]
314. Joowon Jeong. 2023. Unravelling the impact of the Community Reinvestment Act on SBA lending: Insights from a regression discontinuity design analysis. *Journal of Urban Affairs* **19**, 1-19. [[Crossref](#)]
315. Roberto Gómez-Cram, Marcel Olbert. 2023. Measuring the Expected Effects of the Global Tax Reform. *The Review of Financial Studies* **36**:12, 4965-5011. [[Crossref](#)]
316. Haopeng Shen, Hang Zhou, Zhengyi Zhou. 2023. Down payment requirements and house prices: Quasi-experiment evidence from Shanghai. *Real Estate Economics* **33**. . [[Crossref](#)]
317. Shaohui Gao, Yiming He. 2023. Managerial Coase theorem: evidence from China. *Chinese Management Studies* **17**:5, 991-1013. [[Crossref](#)]

318. Masaki Takahashi. 2023. Insurance coverage, long-term care utilization, and health outcomes. *The European Journal of Health Economics* **24**:8, 1383-1397. [[Crossref](#)]
319. Alan Al Yusef, Bruno Heyndels, Pauline Le Boulair. 2023. Forever young: Relative age effects in Belgian political selection. *Kyklos* **76**:4, 859-881. [[Crossref](#)]
320. Xunpeng Shi, Binbin Tian, Longjian Yang, Jian Yu, Siyang Zhou. 2023. How do regulatory environmental policies perform? A case study of China's Top-10,000 enterprises energy-saving program. *Renewable and Sustainable Energy Reviews* **187**, 113734. [[Crossref](#)]
321. Antoine Dechezleprêtre, Elias Einiö, Ralf Martin, Kieu-Trang Nguyen, John Van Reenen. 2023. Do Tax Incentives Increase Firm Innovation? An RD Design for R&D, Patents, and Spillovers. *American Economic Journal: Economic Policy* **15**:4, 486-521. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
322. Harrison Hong, Edward Shore. 2023. Corporate Social Responsibility. *Annual Review of Financial Economics* **15**:1, 327-350. [[Crossref](#)]
323. Adam Kolasinski, Xu Li, Mark Soliman, Qian Xin. 2023. Ambiguity Aversion and Beating Benchmarks: Does it Create a Pattern?. *Management Science* **69**:11, 7059-7078. [[Crossref](#)]
324. David M. Brasington. 2023. The effect of open space maintenance spending on house prices. *Journal of Regional Science* **63**:5, 1053-1072. [[Crossref](#)]
325. Natasha Agarwal, Jackie M.L. Chan, Magnus Lodefalk, Aili Tang, Sofia Tano, Zheng Wang. 2023. Mitigating information frictions in trade: Evidence from export credit guarantees. *Journal of International Economics* **145**, 103831. [[Crossref](#)]
326. Han Li, Jiangyi Li, Yi Lu, Huihua Xie. 2023. Do housing regulations affect child development? Evidence and mechanisms. *Journal of Public Economics* **227**, 104995. [[Crossref](#)]
327. Domenico Depalo. 2023. Should the Daylight Saving Time be abolished? Evidence from work accidents in Italy. *Economic Modelling* **128**, 106520. [[Crossref](#)]
328. William B. Hankins. 2023. Partisan Politics and Excise Tax Rates in the United States. *Public Finance Review* **51**:6, 719-747. [[Crossref](#)]
329. Yongtao Li, Rui Li, Shulin Wang, Wei Wei. 2023. Fireworks celebrations and air pollution: evidence from Chinese Lunar New Year. *Journal of Environmental Planning and Management* **53**, 1-21. [[Crossref](#)]
330. Dean Lueck, Julio A Ramos Pastrana, Gustavo Torrens. 2023. Campaign contributions, partisan politics, and environmental polarization in the US Congress. *The Journal of Law, Economics, and Organization* **69**. . [[Crossref](#)]
331. Kira Solveig Larsen. 2023. Ready or not, here I come: the significance of information about educational success for educational decisions. *European Sociological Review* **39**:5, 775-788. [[Crossref](#)]
332. Kristoffer Balle Hvidberg. 2023. Field of Study and Financial Problems: How Economics Reduces the Risk of Default. *The Review of Financial Studies* **36**:11, 4677-4711. [[Crossref](#)]
333. Huei-Fu Lu. 2023. Can sports-based corporate social responsibility performance reflect firms' market values and risks? Intertemporal evidence from Taiwan iSports corporate award-winning firms. *International Journal of Sports Marketing and Sponsorship* **24**:4, 585-605. [[Crossref](#)]
334. NaYoung Hwang, Cory Koedel. 2023. Helping or Hurting: The Effects of Retention in the Third Grade on Student Outcomes. *Educational Evaluation and Policy Analysis* . [[Crossref](#)]

335. Chitra Jogani. 2023. Does more schooling infrastructure affect literacy?. *Journal of Development Effectiveness* 15:4, 438-452. [[Crossref](#)]
336. Trang Hoang, James R. Harrington. 2023. Tax incentive and household saving strategy: A regression discontinuity approach to catch-up contributions. *The Social Science Journal* 60:4, 755-770. [[Crossref](#)]
337. Krista Riukula. 2023. The effects of screening for gestational diabetes. *Empirical Economics* 65:4, 1931-1964. [[Crossref](#)]
338. IGOR GONCHAROV, VASSO IOANNIDOU, MARTIN C. SCHMALZ. 2023. (Why) Do Central Banks Care about Their Profits?. *The Journal of Finance* 78:5, 2991-3045. [[Crossref](#)]
339. JOHN D. KEPLER, VIC NAIKER, CHRISTOPHER R. STEWART. 2023. Stealth Acquisitions and Product Market Competition. *The Journal of Finance* 78:5, 2837-2900. [[Crossref](#)]
340. Ruonan Li, Feng Lu, Jun Xu, Kai Chen, Xiaoli Zhao. 2023. Effect of carbon information disclosure with consistent evaluation standards: An empirical study about carbon efficiency label in Huzhou China. *Energy Policy* 181, 113717. [[Crossref](#)]
341. Zeyuan Chen, Albert Park. 2023. Rural pensions, intra-household bargaining, and elderly medical expenditure in China. *Health Economics* 32:10, 2353-2371. [[Crossref](#)]
342. Wladimir Zanoni, Paloma Acevedo, Diego A. Guerrero. 2023. Do slum upgrading programs impact school attendance?. *Economics of Education Review* 96, 102458. [[Crossref](#)]
343. Oleg Badunenko, Giovanna D’Inverno, Kristof De Witte. 2023. On distinguishing the direct causal effect of an intervention from its efficiency-enhancing effects. *European Journal of Operational Research* 310:1, 432-447. [[Crossref](#)]
344. Megan Lane, Nicholas L. Berlin, Kevin C. Chung, Jennifer F. Waljee. 2023. Strengthening Association through Causal Inference. *Plastic & Reconstructive Surgery* 152:4, 899-907. [[Crossref](#)]
345. Jin-young Choi, Myoung-jae Lee. 2023. Score manipulation, density continuity and intent-to-treat effect for regression discontinuity. *Pacific Economic Review* 28:4, 552-569. [[Crossref](#)]
346. Dany Bahar, Prithwiraj Choudhury, Do Yoon Kim, Wesley W. Koo. 2023. Innovation on Wings: Nonstop Flights and Firm Innovation in the Global Context. *Management Science* 69:10, 6202-6223. [[Crossref](#)]
347. Jan Kabátek, Ying Liang, Kun Zheng. 2023. Are shorter cumulative temporary contracts worse stepping stones? Evidence from a quasi-natural experiment. *Labour Economics* 84, 102427. [[Crossref](#)]
348. Lourdes Alvarez, Gregory Arcaya, Francisco Cueto, Renato de la Torre. 2023. Can public credit programs improve artisanal fisher performance? The case of FONDEPES a credit program. *Marine Policy* 156, 105792. [[Crossref](#)]
349. Zhenhua Zhang, Yunzhou Shang, Guoxing Zhang, Shuai Shao, Jiayu Fang, Peixuan Li, Shunfeng Song. 2023. The pollution control effect of the atmospheric environmental policy in autumn and winter: Evidence from the daily data of Chinese cities. *Journal of Environmental Management* 343, 118164. [[Crossref](#)]
350. Achille Nazaret, Guillermo Sapiro. 2023. A large-scale observational study of the causal effects of a behavioral health nudge. *Science Advances* 9:38. . [[Crossref](#)]
351. Juerong Huang, Qihui Chen. 2023. Should myopic students wear eyeglasses?—A regression-discontinuity analysis. *Applied Economics Letters* 30:16, 2149-2155. [[Crossref](#)]

352. Aline Bütikofer, Rita Ginja, Katrine V Løken, Fanny Landaud. 2023. Higher-Achievement Schools, Peers and Mental Health. *The Economic Journal* **133**:655, 2580-2613. [[Crossref](#)]
353. Ketemaw Melkamu Wonde, Abrham Seyoum Tsehay, Samson Eshetu Lemma. 2023. The impact of training on the application of modern agricultural inputs: evidence from wheat and maize growers in Northwest Ethiopia. *International Journal of Training Research* **21**:3, 243-265. [[Crossref](#)]
354. Feng-An Yang, Hung-Hao Chang. 2023. Impact of a pension program on healthcare utilization among older farmers: Empirical evidence from health claims data. *World Development* **169**, 106295. [[Crossref](#)]
355. Cecilia Parada. 2023. Cash Transfers and Intra-Household Decision-Making in Uruguay. *Journal of Family and Economic Issues* **44**:3, 757-775. [[Crossref](#)]
356. John B. Holbein, Marcos A. Rangel, Raéal Moore, Michelle Croft. 2023. Is Voting Transformative? Expanding and Meta-Analyzing the Evidence. *Political Behavior* **45**:3, 1015-1044. [[Crossref](#)]
357. Tom Ahn, Jacob Vigdor. 2023. Opening the Black Box: Behavioral Responses of Teachers and Principals to Pay-for-Performance Incentive Programs. *Journal of Human Capital* **17**:3, 315-348. [[Crossref](#)]
358. Thomas Luke Spreen, Colton Keddington. 2023. Temporary Property Tax Relief and Residential Home Sales. *National Tax Journal* **76**:3, 593-620. [[Crossref](#)]
359. Katia Toledo, Alfredo Alvarado. 2023. Tackling BEPS in the Global South: Evidence from Peru's tax reform. *Economic Systems* **47**:3, 101122. [[Crossref](#)]
360. Scott S. Wiltermuth, Timothy Gubler, Lamar Pierce. 2023. Anchoring on Historical Round Number Reference Points: Evidence from Durable Goods Resale Prices. *Organization Science* **34**:5, 1839-1863. [[Crossref](#)]
361. Chiara Pastore, Andrew M. Jones. 2023. Human capital consequences of missing out on a grammar school education. *Economic Modelling* **126**, 106414. [[Crossref](#)]
362. Bin Yuan, Wei Liu, Yuhu Cui. 2023. The impact of retirement on body mass index in China: An empirical study based on regression discontinuity design. *SSM - Population Health* **23**, 101434. [[Crossref](#)]
363. Carolina Caetano, Gregorio Caetano, Juan Carlos Escanciano. 2023. Regression discontinuity design with multivalued treatments. *Journal of Applied Econometrics* **38**:6, 840-856. [[Crossref](#)]
364. Lana Krehic. 2023. Safety first? The effect of studded tyres on traffic accidents and local air pollution. *Journal of Environmental Economics and Management* **121**, 102851. [[Crossref](#)]
365. Mariam O Adeleke, Aidan G O'Keeffe, Gianluca Baio. 2023. Approaches to risk ratio estimation in a regression discontinuity design: Application to the prescription of statins for cholesterol reduction in UK primary care. *Statistical Methods in Medical Research* **3**. . [[Crossref](#)]
366. Michaela Slotwinski, Alois Stutzer, Pieter Bevelander. 2023. From participants to citizens? Democratic voting rights and naturalisation behaviour. *Journal of Ethnic and Migration Studies* **49**:13, 3184-3204. [[Crossref](#)]
367. Rafael Lalive, Arvind Magesan, Stefan Staubli. 2023. How Social Security Reform Affects Retirement and Pension Claiming. *American Economic Journal: Economic Policy* **15**:3, 115-150. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
368. Zhenxuan Wang, Junjie Zhang. 2023. The value of information disclosure: Evidence from mask consumption in China. *Journal of Environmental Economics and Management* **82**, 102865. [[Crossref](#)]

369. Fayssal Ayad. 2023. Mapping the path forward: A prospective model of natural resource depletion and sustainable development. *Resources Policy* **85**, 104016. [[Crossref](#)]
370. Luis Fernando Gamboa, Jaime Millán-Quijano. 2023. Liquidity constraints in free post-secondary education: Evidence from Colombia. *Economics of Education Review* **95**, 102433. [[Crossref](#)]
371. Michael R. Poulson, Miriam Y. Neufeld, Alexander Laraja, Lisa Allee, Kelly M. Kenzik, Tracey Dechert. 2023. The effect of historic redlining on firearm violence. *Journal of the National Medical Association* **115**:4, 421-427. [[Crossref](#)]
372. Alex Pont-Grau, Yu-Hsiang Lei, Joel Z.E. Lim, Xing Xia. 2023. The effect of language training on immigrants' integration: Does the duration of training matter?. *Journal of Economic Behavior & Organization* **212**, 160-198. [[Crossref](#)]
373. Sofoklis Goulas, Silvia Griselda, Rigissa Megalokonomou. 2023. Compulsory class attendance versus autonomy. *Journal of Economic Behavior & Organization* **212**, 935-981. [[Crossref](#)]
374. Johanna Kemper, Ursula Renold. 2023. Evaluating the impact of general versus vocational education on labor market outcomes in Egypt by means of a regression discontinuity design. *Journal of Development Economics* **107**, 103172. [[Crossref](#)]
375. Yichu Huang, Frank Hong Liu, Buhui Qiu. 2023. Credit market development and corporate earnings management: Evidence from banking and branching deregulations. *Journal of Financial Stability* **67**, 101142. [[Crossref](#)]
376. Jia Liu, Ziwei Cong. 2023. The Daily Me Versus the Daily Others: How Do Recommendation Algorithms Change User Interests? Evidence from a Knowledge-Sharing Platform. *Journal of Marketing Research* **60**:4, 767-791. [[Crossref](#)]
377. Jennie E. Brand, Xiang Zhou, Yu Xie. 2023. Recent Developments in Causal Inference and Machine Learning. *Annual Review of Sociology* **49**:1, 81-110. [[Crossref](#)]
378. JOSHUA FERRER, IGOR GEYN, DANIEL M. THOMPSON. 2023. How Partisan Is Local Election Administration?. *American Political Science Review* **3**, 1-16. [[Crossref](#)]
379. Thadeu Gasparetto, Helmut Dietl, Cornel Nesseler, Cristina Muñoz. 2023. When a woman replaces a man: evaluating coach dismissal in professional tennis. *Managing Sport and Leisure* **25**, 1-16. [[Crossref](#)]
380. Bonnie L. Stice, Robin K. Henson. 2023. Regression Discontinuity Designs in Counseling Intervention Research and Program Evaluation: A Primer on a Strategy for Making Causal Inferences. *Counseling Outcome Research and Evaluation* 1-16. [[Crossref](#)]
381. Simiao Chen, Zhangfeng Jin, Klaus Prettnner. 2023. Can I live with you after I retire? Retirement, old age support and internal migration in a developing country. *Canadian Journal of Economics/Revue canadienne d'économie* **55**. . [[Crossref](#)]
382. Mika Haapanen, Jaakko Pehkonen, Ville Seppälä. 2023. Couples' joint retirement by household type: Evidence from Finland. *LABOUR*. [[Crossref](#)]
383. Deepon Bhaumik, Chima D Ndumele, John W Scott, Jacob Wallace. 2023. Association between Medicare eligibility at age 65 years and in-hospital treatment patterns and health outcomes for patients with trauma: regression discontinuity approach. *BMJ* **50**, e074289. [[Crossref](#)]
384. LUCAS M. NOVAES. 2023. The Violence of Law-and-Order Politics: The Case of Law Enforcement Candidates in Brazil. *American Political Science Review* **41**, 1-20. [[Crossref](#)]



385. Qingduo Mao, Haojie Cheng, Jia Shi, Lei Zhou. 2023. How does environmental relative performance evaluation work? The case of China's urban air quality ranking. *Human and Ecological Risk Assessment: An International Journal* **29**:5-6, 990-1012. [[Crossref](#)]
386. Joan Costa-Font, Martin Knapp, Cristina Vilaplana-Prieto. 2023. The 'welcomed lockdown' hypothesis? Mental wellbeing and mobility restrictions. *The European Journal of Health Economics* **24**:5, 679-699. [[Crossref](#)]
387. Jonathan Meer, Joshua Witter. 2023. Effects of the Earned Income Tax Credit for Childless Adults: A Regression Discontinuity Approach. *Tax Policy and the Economy* **37**, 175-198. [[Crossref](#)]
388. Ming Gao, Qiankun Gu, Shijun He, Dongmin Kong. 2023. The long-run effects of the imperial bureaucracy: Two tales along the Great Wall of Ming China. *Asia-Pacific Economic History Review* **63**:2, 249-293. [[Crossref](#)]
389. Karan Makkar. 2023. Defector Politicians and Economic Growth: Evidence from India. *European Journal of Political Economy* **35**, 102442. [[Crossref](#)]
390. Verena Benoit. 2023. Religiosity and attitudes toward muslim immigrants in the context of a terrorist attack. *International Journal of Intercultural Relations* **95**, 101811. [[Crossref](#)]
391. Elisabetta Cornago, Alexandros Dimitropoulos, Walid Oueslati. 2023. The impact of urban road pricing on the use of bike sharing. *Journal of Environmental Economics and Management* **120**, 102821. [[Crossref](#)]
392. Jin-young Choi, Myoung-jae Lee. 2023. Complier and monotonicity for Fuzzy Multi-score Regression Discontinuity with partial effects. *Economics Letters* **228**, 111169. [[Crossref](#)]
393. Minke Remmerswaal, Jan Boone, Rudy Douven. 2023. Minimum generosity levels in a competitive health insurance market. *Journal of Health Economics* **90**, 102782. [[Crossref](#)]
394. Qingyong Zhang, Xianqiang Mao, Zhengzao Wang, Yutong Tan, Ziyin Zhang, Yanjie Wu, Yubing Gao. 2023. Impact of the emergency response to COVID-19 on air quality and its policy implications: Evidence from 290 cities in China. *Environmental Science & Policy* **145**, 50-59. [[Crossref](#)]
395. Kasper Vrolijk, Misato Sato. 2023. Quasi-Experimental Evidence on Carbon Pricing. *The World Bank Research Observer* **38**:2, 213-248. [[Crossref](#)]
396. Leo Roberts, Daniel R. Little, Mervyn Jackson, Matthew J. Spittal. 2023. Test cricketers score quickly during the 'nervous nineties': Evidence from a regression discontinuity design. *PLOS ONE* **18**:6, e0287700. [[Crossref](#)]
397. Yiannis Kountouris, Kyriaki Remoundou. 2023. Does higher education affect pro-environmental behavior? Evidence from household waste recycling in Greece. *Environmental Research Letters* . [[Crossref](#)]
398. Christina Korting, Carl Lieberman, Jordan Matsudaira, Zhuan Pei, Yi Shen. 2023. Visual Inference and Graphical Representation in Regression Discontinuity Designs. *The Quarterly Journal of Economics* **138**:3, 1977-2019. [[Crossref](#)]
399. Harris Hyun-soo Kim. 2023. Social Conflict and Outgroup Sentiment in South Korea: Evidence from the Yemeni Anti-Refugee Campaign. *Journal of East Asian Studies* **15**, 1-34. [[Crossref](#)]
400. ROBIN HARDING, MOUNU PREM, NELSON A. RUIZ, DAVID L. VARGAS. 2023. Buying a Blind Eye: Campaign Donations, Regulatory Enforcement, and Deforestation. *American Political Science Review* **30**, 1-19. [[Crossref](#)]

401. SeungHoon Han, Hosung Sohn. 2023. The short-term effects of fixed copayment policy on elderly health spending and service utilization: evidence from South Korea's age-based policy using exact date of birth. *International Journal of Health Economics and Management* **23**:2, 255-279. [[Crossref](#)]
402. Arthur J. Caplan. 2023. Missing the Warning Signs? The Case of "Yellow Air Day" Advisories in Northern Utah. *Environmental and Resource Economics* **85**:2, 479-522. [[Crossref](#)]
403. Bradley R. Curs, Casandra E. Harper, Charles Frey, Brandon Wolak. 2023. The Effect of College Football Bowl Game Participation on Student-Athlete Academic Outcomes and Team Athletic Success. *Research in Higher Education* **64**:4, 497-519. [[Crossref](#)]
404. Yuanrong Xu. 2023. The effect of retirement on health and mortality in the United States. *Journal of Population Research* **40**:2. . [[Crossref](#)]
405. Rose McDermott. 2023. On the scientific study of small samples: Challenges confronting quantitative and qualitative methodologies. *The Leadership Quarterly* **34**:3, 101675. [[Crossref](#)]
406. Anaïs Fabre, Stéphane Straub. 2023. The Impact of Public-Private Partnerships (PPPs) in Infrastructure, Health, and Education. *Journal of Economic Literature* **61**:2, 655-715. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
407. Massimo Maoret, Giacomo Marchesini, Gokhan Ertug. 2023. On the Status Shocks of Tournament Rituals: How Ritual Enactment Affects Productivity, Input Provision, and Performance. *Academy of Management Journal* **66**:3, 926-952. [[Crossref](#)]
408. Gabriel Aboyadana. 2023. Education and health in developing countries: Evidence from Ghana's FCUBE. *World Development Sustainability* **2**, 100041. [[Crossref](#)]
409. Henry Penikas, Anastasia Skarednova, Mikhail Surkov. 2023. How Do Investors Prefer for Banks to Transition to Basel Internal Models: Mandatorily or Voluntarily?. *The Quarterly Journal of Finance* **13**:02. . [[Crossref](#)]
410. Emilia Bonaccorsi di Patti, Mirko Moscatelli, Stefano Pietrosanti. 2023. The impact of bank regulation on the cost of credit: Evidence from a discontinuity in capital requirements. *Journal of Financial Intermediation* **90**, 101040. [[Crossref](#)]
411. Jinqi Zhao, Yi Xiao, Yanliang Zhang, Yuting Shao, Tianxiao Ma, Xiaojun Kou, Yuanyuan Zhang, Weiguo Sang, Jan Christoph Axmacher. 2023. Socioeconomic development shows positive links to the conservation efficiency of China's protected area network. *Global Change Biology* **29**:12, 3433-3448. [[Crossref](#)]
412. Mohamed Ebeid, Umut Oguzoglu. 2023. Short-term effect of retirement on health: Evidence from nonparametric fuzzy regression discontinuity design. *Health Economics* **32**:6, 1323-1343. [[Crossref](#)]
413. Ingrid Smithey Fulmer, Barry Gerhart, Ji Hyun Kim. 2023. Compensation and performance: A review and recommendations for the future. *Personnel Psychology* **76**:2, 687-718. [[Crossref](#)]
414. Trine Filges, Mette Verner, Else Ladekjær, Elizabeth Bengtsen. 2023. PROTOCOL: Participation in organised sport to improve and prevent adverse developmental trajectories of at-risk youth: A systematic review. *Campbell Systematic Reviews* **19**:2. . [[Crossref](#)]
415. Jad Beyhum, Jean-Pierre Florens, Ingrid Van Keilegom. 2023. Discussion on "Instrumented Difference-in-Differences" by Ting Ye, Ashkan Ertefaie, James Flory, Sean Hennessy, and Dylan S. Small. *Biometrics* **79**:2, 582-586. [[Crossref](#)]

416. Vincent Geloso, Vadim Kufenko, Alex P. Arsenault-Morin. 2023. The lesser shades of labor coercion: The impact of seigneurial tenure in nineteenth-century Quebec. *Journal of Development Economics* **163**, 103091. [[Crossref](#)]
417. Benjamin Bittschi, Berthold U. Wigger. 2023. Who wants (them) to work longer?. *Economics Letters* **227**, 111122. [[Crossref](#)]
418. Andrii Babii, Rohit Kumar. 2023. Isotonic regression discontinuity designs. *Journal of Econometrics* **234**:2, 371-393. [[Crossref](#)]
419. Federico Cingano, Filippo Palomba, Paolo Pinotti, Enrico Rettore. 2023. Granting more bang for the buck: The heterogeneous effects of firm subsidies. *Labour Economics* **23**, 102403. [[Crossref](#)]
420. Cheng Xu, Jun Gao, Xinghe Liu, Yanqi Sun, Kees G. Koedijk. 2023. Great Chinese famine, corporate social responsibility and firm value. *Pacific-Basin Finance Journal* **79**, 102010. [[Crossref](#)]
421. Hugh Sharma Waddington, Paul Fenton Villar, Jeffrey C. Valentine. 2023. Can Non-Randomised Studies of Interventions Provide Unbiased Effect Estimates? A Systematic Review of Internal Replication Studies. *Evaluation Review* **47**:3, 563-593. [[Crossref](#)]
422. Taotao Deng, Weishu Zhao, Yukun Hu. 2023. Retirement and household tourism consumption—A case study in China. *Tourism Economics* **29**:4, 1055-1073. [[Crossref](#)]
423. Ayshe Yaylali. 2023. Republic of Sudan Education System Reform: The Causal Effect on Welfare of Women and Children. *International Journal of Educational Development in Africa* . [[Crossref](#)]
424. Claudio A. Mora-García, Tomás Rau. 2023. Peer Effects in the Adoption of a Youth Employment Subsidy. *Review of Economics and Statistics* **105**:3, 614-625. [[Crossref](#)]
425. John Holbein, Charles Crabtree. 2023. Do Sleep Disruptions Promote Social Fragmentation?. *Politics and the Life Sciences* 1-48. [[Crossref](#)]
426. Liang Guo, W. D. Walls, Xiaoli Zheng. 2023. Waste Import Bans and Environmental Quality: Evidence from China's Electronic Waste Disposal Towns. *Environmental and Resource Economics* **85**:1, 65-108. [[Crossref](#)]
427. Marcelo Coca Perrailon, Ya-Chen Tina Shih. 2023. Causal Inference in Oncology Comparative Effectiveness Research Using Observational Data: Are Instrumental Variables Underutilized?. *Journal of Clinical Oncology* **41**:13, 2319-2322. [[Crossref](#)]
428. Hung-Hao Chang, Chad D. Meyerhoefer. 2023. Do elections make you sick? Evidence from first-time voters. *Health Economics* **32**:5, 1064-1083. [[Crossref](#)]
429. Marshall Makate, Chamunorwa Nyamuranga. 2023. The long-term impact of education on dietary diversity among women in Zimbabwe. *Review of Development Economics* **27**:2, 897-923. [[Crossref](#)]
430. Klaus Gugler, Adhurim Haxhimusa, Mario Liebensteiner. 2023. Carbon pricing and emissions: Causal effects of Britain's carbon tax. *Energy Economics* **121**, 106655. [[Crossref](#)]
431. Yao Li, Lei Li, Junxia Liu. 2023. The efficient moral hazard effect of health insurance: Evidence from the consolidation of urban and rural resident health insurance in China. *Social Science & Medicine* **324**, 115884. [[Crossref](#)]
432. Erica Heiman, Sothivin Lanh, Tim P. Moran, Alaina Steck, Joseph Carpenter. 2023. Electronic Advisories Increase Naloxone Prescribing Across Health Care Settings. *Journal of General Internal Medicine* **38**:6, 1402-1409. [[Crossref](#)]

433. Jiashun Huang, Jim Huangnan Shen, Zhiyan Sun. 2023. Understanding China's Economic Growth from a Regional Policy Perspective. *China & World Economy* 31:3, 1-26. [[Crossref](#)]
434. Zhijie Guan, Yue Zhang. 2023. The Impact of Changes in Log Import Price from the Logging Ban on the Market Price of Timber Products. *Journal of Sustainable Forestry* 42:4, 384-398. [[Crossref](#)]
435. Sabrina T Howell, J David Brown. 2023. Do Cash Windfalls Affect Wages? Evidence from R&D Grants to Small Firms. *The Review of Financial Studies* 36:5, 1889-1929. [[Crossref](#)]
436. Sungchul Park, Alexander N. Ortega, Jie Chen, Arturo Vargas Bustamante. 2023. Effects of Medicare eligibility and enrollment at age 65 among immigrants and US -born residents. *Journal of the American Geriatrics Society* . [[Crossref](#)]
437. Lingyun Liu, Yanxin Cheng, Ningning Guan, Yazhen Liu, Xin Zhang, Yang Li, Zining Yang. 2023. Impact of COVID-19 and green finance on transportation energy carbon emissions in China: From the perspective of an automobile energy consumption structure. *Frontiers in Environmental Science* 11. . [[Crossref](#)]
438. Nursena Aksunger, Corey Vernot, Rebecca Littman, Maarten Voors, Niccolò F. Meriggi, Amanuel Abajobir, Bernd Beber, Katherine Dai, Dennis Egger, Asad Islam, Jocelyn Kelly, Arjun Kharel, Amani Matabaro, Andrés Moya, Pheliciah Mwachofi, Carolyn Nekesa, Eric Ochieng, Tabassum Rahman, Alexandra Scacco, Yvonne van Dalen, Michael Walker, Wendy Janssens, Ahmed Mushfiq Mobarak. 2023. COVID-19 and mental health in 8 low- and middle-income countries: A prospective cohort study. *PLOS Medicine* 20:4, e1004081. [[Crossref](#)]
439. Xuechao Li, Yaxuan Luo, Huijuan Wang. 2023. Effects of Targeted Poverty Alleviation on the Sustainable Livelihood of Poor Farmers. *Sustainability* 15:7, 6217. [[Crossref](#)]
440. Michelle C. Odden, Adina Zhang, Neal Jawadekar, Annabel Tan, Andrew E. Moran, M. Maria Glymour, Carol Brayne, Adina Zeki Al Hazzouri, Sebastian Calonico. 2023. Regression discontinuity design to evaluate the effect of statins on myocardial infarction in electronic health records. *European Journal of Epidemiology* 38:4, 393-402. [[Crossref](#)]
441. Si-qing Xu, Hong-di He, Ming-ke Yang, Cui-lin Wu, Xing-hang Zhu, Zhong-ren Peng, Yuya Sasaki, Kenji Doi, Shinji Shimojo. 2023. To what extent the traffic restriction policies can improve its air quality? An inspiration from COVID-19. *Stochastic Environmental Research and Risk Assessment* 37:4, 1479-1495. [[Crossref](#)]
442. Ana Colubi, Ana Belén Ramos-Guajardo. 2023. Fuzzy sets and (fuzzy) random sets in Econometrics and Statistics. *Econometrics and Statistics* 26, 84-98. [[Crossref](#)]
443. Yukun Liu, Xi Wu. 2023. How does shareholder governance affect the cost of borrowing? Evidence from the passage of anti-takeover provisions. *Journal of Accounting and Economics* 75:2-3, 101569. [[Crossref](#)]
444. Ahmed Rachid El-Khattabi. 2023. Social opprobrium and compliance: Evidence from water conservation. *Water Resources and Economics* 42, 100218. [[Crossref](#)]
445. Paul Dutronc-Postel, Alessandro Tondini. 2023. Large Means-Tested Pensions with Informal Labor Markets: Evidence from South Africa. *Economic Development and Cultural Change* 71:3, 1149-1178. [[Crossref](#)]
446. Daria Loginova, Stefan Mann. 2023. Measuring stability and structural breaks: Applications in social sciences. *Journal of Economic Surveys* 37:2, 302-320. [[Crossref](#)]

447. David Slichter. 2023. The employment effects of the minimum wage: A selection ratio approach to measuring treatment effects. *Journal of Applied Econometrics* **38**:3, 334-357. [[Crossref](#)]
448. Chong Lu. 2023. The impact of equalisation of basic public health and medical services on the long-term urban settlement intentions of internal migrants in China. *Asia Pacific Viewpoint* **64**:1, 2-16. [[Crossref](#)]
449. Mette Foged, Linea Hasager, Giovanni Peri, Jacob Nielsen Arendt, Iben Bolvig. 2023. Intergenerational spillover effects of language training for refugees. *Journal of Public Economics* **220**, 104840. [[Crossref](#)]
450. Bulent Tutmez. 2023. Robust learning algorithm based on agreement among soil sampling techniques. *Applied Soft Computing* **137**, 110123. [[Crossref](#)]
451. Jan Keil. 2023. Lending relationships when creditors are in control. *Journal of Corporate Finance* **79**, 102363. [[Crossref](#)]
452. Goeun Lee, Myoung-jae Lee. 2023. Regression Discontinuity for Binary Response and Local Maximum Likelihood Estimator to Extrapolate Treatment. *Evaluation Review* **47**:2, 182-208. [[Crossref](#)]
453. Yanchao Feng, Chuan Cheng, Shilei Hu, Anqi Cao. 2023. Campaign-style governance of air pollution in China? A comprehensive analysis of the central environmental protection inspection. *Frontiers in Public Health* **11**. . [[Crossref](#)]
454. Jorge Garcia-Hombrados, Berkay Özcan. 2023. Age at marriage and marital stability: evidence from China. *Review of Economics of the Household* **72**. . [[Crossref](#)]
455. Nadia Siddiqui, Stephen Gorard. 2023. Is household income a reliable measure when assessing educational outcomes? A Jigsaw of two datasets (Next Steps and National Pupil Database) for understanding indicators of disadvantage. *International Journal of Research & Method in Education* **46**:2, 118-132. [[Crossref](#)]
456. Kimin Kim, Myoung-Jae Lee. 2023. Quasi-randomization by survey date for policy analysis. *Oxford Economic Papers* **75**:2, 507-525. [[Crossref](#)]
457. François Derrien, Alexandre Garel, Arthur Romec, Jean-Philippe Weisskopf. 2023. Online Reputation and Debt Capacity. *Journal of Financial and Quantitative Analysis* **71**, 1-41. [[Crossref](#)]
458. Shi Purun, Zhengxiu Sun, Jiaying Cao, Zhile Li. 2023. Has new rural pension system reduced the intake of junk food among rural older adults? Evidence from China. *Frontiers in Public Health* **11**. . [[Crossref](#)]
459. Seoyeon Ahn, Ji Young Kang, Yung Chun, Sojung Park. 2023. The Effect of Social Pension on Material Hardship among Older Adults in Korea: Regression Discontinuity Estimation. *Social Policy and Society* **18**, 1-19. [[Crossref](#)]
460. Wenchao Li, Zhiming Leng, Junjian Yi, Songfa Zhong. 2023. A multifaceted poverty reduction program has economic and behavioral consequences. *Proceedings of the National Academy of Sciences* **120**:10. . [[Crossref](#)]
461. Mengna Li, Xiongfeng Pan, Sai Yuan, Shenghan Feng. 2023. Investigating the Influence of a New Ride-Hailing Policy on Air Quality Using Regression Discontinuity Design. *Journal of Urban Planning and Development* **149**:1. . [[Crossref](#)]
462. Giovanni Mellace, Marco Ventura. 2023. The short-run effects of public incentives for innovation in Italy. *Economic Modelling* **120**, 106178. [[Crossref](#)]

463. Wenya Yu, Yan Yang, Xiang Liu, Xiang Gao, Yipeng Lv, Liang Zhou, Jianwei Shi, Jiaoling Huang, Qiao Chu, Zhaoxin Wang, Lin Jiang, Mingwang Cheng. 2023. Heterogeneous effects of retirement on the biomedical risk factors for cardiovascular and metabolic diseases: New evidence based on the physical examination database in Shanghai, China. *SSM - Population Health* **21**, 101333. [[Crossref](#)]
464. Lizbeth Burgos Ochoa, Jasper V Been. 2023. Use of natural experiments to evaluate public health policy. *The Lancet Public Health* **8**:3, e164-e165. [[Crossref](#)]
465. Niels-Jakob H. Hansen, Rui C. Mano. 2023. Mask mandates save lives. *Journal of Health Economics* **88**, 102721. [[Crossref](#)]
466. Gerald Carlino, Thorsten Drautzburg, Robert Inman, Nicholas Zarra. 2023. Partisanship and Fiscal Policy in Economic Unions: Evidence from US States. *American Economic Review* **113**:3, 701-737. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
467. Caroline Chuard. 2023. Negative effects of long parental leave on maternal health: Evidence from a substantial policy change in Austria. *Journal of Health Economics* **88**, 102726. [[Crossref](#)]
468. Sergi Sánchez-Coll. 2023. Born this way: the effect of an unexpected child benefit at birth on longer-term educational outcomes. *SERIEs* **14**:1, 105-141. [[Crossref](#)]
469. Julio Cáceres-Delpiano, Eugenio Giolito. 2023. Minimum age requirements and the role of the school choice set. *SERIEs* **14**:1, 63-103. [[Crossref](#)]
470. Pelin Akyol, Naci Mocan. 2023. Education and Consanguineous Marriage. *Journal of Human Capital* **17**:1, 114-171. [[Crossref](#)]
471. Yan Song, Qian Yue, Jing Zhu, Ming Zhang. 2023. Air pollution, human capital, and urban innovation in China. *Environmental Science and Pollution Research* **30**:13, 38031-38051. [[Crossref](#)]
472. Tianshi Li, Wenli Li, Yuqing Zhao, Jingpei Ma. 2023. Rationality manipulation during consumer decision-making process: an analysis of Alibaba's online shopping carnival. *Electronic Commerce Research* **23**:1, 331-364. [[Crossref](#)]
473. Zeren Li, Arthur Zeyang Yu. 2023. The Last Strike: Age, Career Incentives and Taxation in China. *Studies in Comparative International Development* **58**:1, 55-78. [[Crossref](#)]
474. Ling Li. 2023. Helping Nurses or Hurting Patients?. *American Journal of Health Economics* **9**:2, 205-230. [[Crossref](#)]
475. Emma Zang, Poh Lin Tan, Philip J. Cook. 2023. Sibling Spillovers: Having an Academically Successful Older Sibling May Be More Important for Children in Disadvantaged Families. *American Journal of Sociology* **128**:5, 1529-1571. [[Crossref](#)]
476. Ana P. Cañedo, Raissa Fabregas, Prankur Gupta. 2023. Emergency cash transfers for informal workers: Impact evidence from Mexico. *Journal of Public Economics* **219**, 104820. [[Crossref](#)]
477. Patricia H. Born, E. Tice Sirmans, Petra Steinorth. 2023. Health insurers' use of quality improvement expenses to achieve a minimum medical loss ratio requirement. *Journal of Risk and Insurance* **90**:1, 123-154. [[Crossref](#)]
478. Yongwei Nian. 2023. Incentives, penalties, and rural air pollution: Evidence from satellite data. *Journal of Development Economics* **161**, 103049. [[Crossref](#)]
479. Jade Siu, Olivier Sterck, Cory Rodgers. 2023. The freedom to choose: Theory and quasi-experimental evidence on cash transfer restrictions. *Journal of Development Economics* **161**, 103027. [[Crossref](#)]



480. Marc Gurgand, Adrien Lorenceau, Thomas Mélonio. 2023. Student loans: Credit constraints and higher education in South Africa. *Journal of Development Economics* **161**, 103031. [[Crossref](#)]
481. Charlotte C. Meng. 2023. The price paid: Heuristic thinking and biased reference points in the housing market. *Journal of Urban Economics* **134**, 103514. [[Crossref](#)]
482. Max Reinwald, Johannes Zaia, Florian Kunze. 2023. Shine Bright Like a Diamond: When Signaling Creates Glass Cliffs for Female Executives. *Journal of Management* **49**:3, 1005-1036. [[Crossref](#)]
483. Cecilia Potente, Patrick Präg, Christiaan W. S. Monden. 2023. Does Children's Education Improve Parental Health and Longevity? Causal Evidence from Great Britain. *Journal of Health and Social Behavior* **64**:1, 21-38. [[Crossref](#)]
484. Monica G. Lee, James G. Soland. 2023. Does Reclassification Change How English Learners Feel About School and Themselves? Evidence From a Regression Discontinuity Design. *Educational Evaluation and Policy Analysis* **45**:1, 27-51. [[Crossref](#)]
485. Heejung Byun, Joseph Raffee. 2023. Career Specialization, Involuntary Worker–Firm Separations, and Employment Outcomes: Why Generalists Outperform Specialists When Their Jobs Are Displaced. *Administrative Science Quarterly* **68**:1, 270-316. [[Crossref](#)]
486. Qiang Zhang, Chen Chen, Jian Zheng, Liang Chen. 2023. Quantitative evaluation of China's shipping decarbonization policies: The PMC-Index approach. *Frontiers in Marine Science* **10**. . [[Crossref](#)]
487. Timothy DeStefano, Richard Kneller, Jonathan Timmis. 2023. The (fuzzy) digital divide: the effect of universal broadband on firm performance. *Journal of Economic Geography* **23**:1, 139-177. [[Crossref](#)]
488. Misty L. Heggeness, Donna K. Ginther, Maria I. Larenas, Frances D. Carter-Johnson. 2023. Advancing biomedical science through investments in elite training. *PLOS ONE* **18**:2, e0272230. [[Crossref](#)]
489. Sarah Miller, Laura R. Wherry, Diana Greene Foster. 2023. The Economic Consequences of Being Denied an Abortion. *American Economic Journal: Economic Policy* **15**:1, 394-437. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
490. Giacomo De Giorgi, Andres Drenik, Enrique Seira. 2023. The Extension of Credit with Nonexclusive Contracts and Sequential Banking Externalities. *American Economic Journal: Economic Policy* **15**:1, 233-271. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
491. Enrico Miglino, Nicolás Navarrete H., Gonzalo Navarrete H., Pablo Navarrete H.. 2023. Health Effects of Increasing Income for the Elderly: Evidence from a Chilean Pension Program. *American Economic Journal: Economic Policy* **15**:1, 370-393. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
492. Marcelo Castro, Cesar Tirso. 2023. The impacts of the age of majority on the exposure to violent crimes. *Empirical Economics* **64**:2, 983-1023. [[Crossref](#)]
493. Charlotte Bermingham, Jasper Morgan, Daniel Ayoubkhani, Myer Glickman, Nazrul Islam, Aziz Sheikh, Jonathan Sterne, A Sarah Walker, Vahé Nafilyan. 2023. Estimating the Effectiveness of First Dose of COVID-19 Vaccine Against Mortality in England: A Quasi-Experimental Study. *American Journal of Epidemiology* **192**:2, 267-275. [[Crossref](#)]
494. Lisa Simon, Zirui Song, Michael L. Barnett. 2023. Dental Services Use: Medicare Beneficiaries Experience Immediate And Long-Term Reductions After Enrollment. *Health Affairs* **42**:2, 286-295. [[Crossref](#)]
495. Yan Zhu, Hongfeng Zhang, Xu He. 2023. Impact of New and Old Driving Force Conversion on Air Quality: Empirical Analysis Based on RDD. *Sustainability* **15**:4, 3183. [[Crossref](#)]

496. Xuan Leng, Xuemei Zhao, Houjian Li. 2023. Assessing the effect of the coal-to-gas program on air pollution: evidence from China. *Environmental Science and Pollution Research* **30**:9, 24027-24042. [[Crossref](#)]
497. Namho Kwon, Hosung Sohn. 2023. The Effect of Age at First Marriage on Female Fertility: Evidence from Korea's School Entry Policy Using Exact Date of Birth. *Population Research and Policy Review* **42**:1. . [[Crossref](#)]
498. Annie Tubadji, Frédéric Boy, Don J. Webber. 2023. Narrative Economics, Public Policy and Mental Health. *Applied Research in Quality of Life* **18**:1, 43-70. [[Crossref](#)]
499. Emma Zang, Michael E. Sobel, Liying Luo. 2023. The mobility effects hypothesis: Methods and applications. *Social Science Research* **110**, 102818. [[Crossref](#)]
500. Chuanyi Guo, Xuening Wang, Chen Meng. 2023. Does the early bird catch the worm? Evidence and interpretation on the long-term impact of school entry age in China. *China Economic Review* **77**, 101900. [[Crossref](#)]
501. İlhan Güner, Mehdi Hamidi Sahneh. 2023. Dancing with the Stars: Does Playing in Elite Tournaments Affect Performance?. *Oxford Bulletin of Economics and Statistics* **85**:1, 1-34. [[Crossref](#)]
502. Timo Lehmann, Matthias Weber. 2023. Auctions versus bookbuilding: The effects of IPO regulation in Japan. *Financial Review* **58**:1, 117-141. [[Crossref](#)]
503. Sungchul Park, Rishi K. Wadhwa, Jeah Jung. 2023. Effects of Medicare eligibility and enrollment at age 65 years on the use of high-value and low-value care. *Health Services Research* **58**:1, 174-185. [[Crossref](#)]
504. Ana C. De Roo, Jinkyung Ha, Scott E. Regenbogen, Geoffrey J. Hoffman. 2023. Impact of Medicare eligibility on informal caregiving for surgery and stroke. *Health Services Research* **58**:1, 128-139. [[Crossref](#)]
505. Michael R. Poulson, Alaina Geary, Marianna Papageorge, Alexander Laraja, Olivia Sacks, Jason Hall, Kelly M. Kenzik. 2023. The effect of medicare and screening guidelines on colorectal cancer outcomes. *Journal of the National Medical Association* **115**:1, 90-98. [[Crossref](#)]
506. Marten Ovaere, Michiel Kenis, Kenneth Van den Bergh, Kenneth Bruninx, Erik Delarue. 2023. The effect of flow-based market coupling on cross-border exchange volumes and price convergence in Central Western European electricity markets. *Energy Economics* **118**, 106519. [[Crossref](#)]
507. Zhuanlan Sun, Sheng Liu, Yiwei Li, Chao Ma. 2023. Expedited editorial decision in COVID-19 pandemic. *Journal of Informetrics* **17**:1, 101382. [[Crossref](#)]
508. Sonia R. Bruck, Rajan Parajuli, Stephanie Chizmar, Erin O. Sills. 2023. Impacts of COVID-19 pandemic policies on timber markets in the Southern United States. *Journal of Forest Business Research* **2**:1, 130-167. [[Crossref](#)]
509. Shaohui Gao, Yiming He. 2023. The effect of land titling policy on farm size: evidence from China. *Applied Economics* **55**:2, 188-200. [[Crossref](#)]
510. Wenchi Wei, Chengwei Wang, Wenkang Zhai, Wenzhao Li. 2023. "Honor List" and "Shame Roll": Quasi-Experimental Evidence of the Effect of Performance Feedback under Political Control. *Journal of Public Administration Research and Theory* **33**:1, 122-138. [[Crossref](#)]
511. David Wuepper, Robert Finger. 2023. Regression discontinuity designs in agricultural and environmental economics. *European Review of Agricultural Economics* **50**:1, 1-28. [[Crossref](#)]

512. Tianxiang Shi, Xuesong You. 2023. Multiemployer Defined Benefit Pension Plans: Employer Withdrawals and Financial Vulnerability. *North American Actuarial Journal* **27**:1, 121-147. [[Crossref](#)]
513. Guoguo Zhang, Honghong Zhang. 2023. Human mobility restrictions and innovation: evidence from China. *Asian Journal of Technology Innovation* **31**:1, 1-26. [[Crossref](#)]
514. Ajit Karnik, Mala Lalvani, Manali Phatak. 2023. Political incumbency effects in India: a regional analysis. *Studies in Economics and Econometrics* **47**:1, 43-60. [[Crossref](#)]
515. Domingos Isaias Maia Amorim, Francisco José Silva Tabosa, Alexandre Nunes Almeida, Pablo Urano de Carvalho Castelar. 2023. The impact of unemployment insurance on reinsertion wages in 2015 in the rural environment of Brazil. *Revista de Economia e Sociologia Rural* **61**:1. . [[Crossref](#)]
516. Garret J. Hall, Craig A. Albers. Research study design 695-702. [[Crossref](#)]
517. Alastair Fraser. 2023. Success, Failure, and Information: How Households Respond to Energy Conservation Goals. *Journal of the Association of Environmental and Resource Economists* **10**:1, 95-120. [[Crossref](#)]
518. Hosung Sohn, Heeran Park, Haeil Jung. 2023. The Effect of Extra School Funding on Students' Academic Achievements under a Centralized School Financing System. *Education Finance and Policy* **18**:1, 1-24. [[Crossref](#)]
519. Shuai Zhao. 2023. Family Size and Intergenerational Inequality: Evidence from China's One-child Policy. *Social Indicators Research* **165**:1, 283-307. [[Crossref](#)]
520. Barış K. Yörük. 2023. Does public policy affect attitudes? Evidence from age-based health insurance coverage policies in the United States. *Journal of Economic Behavior & Organization* **205**, 287-302. [[Crossref](#)]
521. Mee Jung Kim. 2023. Impact of the Community Reinvestment Act on small business employment in lower income neighborhoods. *Regional Science and Urban Economics* **98**, 103837. [[Crossref](#)]
522. Federico A. Bugni, Jia Li, Qiyuan Li. 2023. Permutation-based tests for discontinuities in event studies. *Quantitative Economics* **14**:1, 37-70. [[Crossref](#)]
523. Khaled Alsabah. 2023. The 15-day debate and the value of early release of information: Evidence from 10-K filings. *Journal of Accounting and Public Policy* **42**:1, 107019. [[Crossref](#)]
524. Hongwei Yu, Xiaoyue Hu, Juan Gao. 2023. Can haze warning policy reduce traffic accidents: evidence from China. *Environmental Science and Pollution Research* **30**:2, 2703-2720. [[Crossref](#)]
525. Salvador Lurbé, Jesse Burkhardt, Chris Goemans, Dale Manning, Liesel Hans. 2023. Further evidence on social comparison and residential water use. *Water Resources and Economics* **41**, 100214. [[Crossref](#)]
526. David Wuepper, Fiona H.M. Tang, Robert Finger. 2023. National leverage points to reduce global pesticide pollution. *Global Environmental Change* **78**, 102631. [[Crossref](#)]
527. Erich Battistin, Marco Bertoni. Counterfactuals with Experimental and Quasi-Experimental Variation 37-70. [[Crossref](#)]
528. Tetyana Balyuk. 2023. FinTech Lending and Bank Credit Access for Consumers. *Management Science* **69**:1, 555-575. [[Crossref](#)]
529. Joan Costa-Font, Martin Ljunge. 2023. Ideological spillovers across the Atlantic? Evidence from Trump's presidential election. *European Journal of Political Economy* **76**, 102231. [[Crossref](#)]

530. Touria Jaaidane, Sophie Larribeau. 2023. The effects of inter-municipal cooperation and central grant allocation on the size of the French local public sector. *European Journal of Political Economy* **76**, 102271. [[Crossref](#)]
531. Emil Bustos. 2023. The Effect of Financial Constraints on Inventory Holdings. *SSRN Electronic Journal* **30**. . [[Crossref](#)]
532. Xiaping Cao, Wenlian Lin, Yong Li. 2023. ANCHORING HEURISTICS, ATTENTION TO RISKS, AND MARKET LIQUIDITY: A REGRESSION DISCONTINUITY DESIGN. *SSRN Electronic Journal* **5**. . [[Crossref](#)]
533. Giuseppe Albanese, Vincenzo Carrieri, Antonella Ferrara, Maria Maddalena Speziali. 2023. Looking for a Star: A Comprehensive Evaluation of the EU Cohesion Policy. *SSRN Electronic Journal* **53**. . [[Crossref](#)]
534. Yuting Zhang, Nathan Kettlewell. 2023. Financial incentives and private health insurance demand on the extensive and intensive margins. *SSRN Electronic Journal* **55**. . [[Crossref](#)]
535. Joshua Brownstein. 2023. The Effect of Honors College Participation on Student Outcomes. *SSRN Electronic Journal* **82**. . [[Crossref](#)]
536. Filippo Belloc, Gabriel Burdin, Fabio Landini. 2023. Advanced Technologies and Worker Voice. *Economica* **90**:357, 1–38. [[Crossref](#)]
537. Ankit Jain, Hariom Manchiraju, Shyam V. Sunder. 2023. Institutional ownership and the informativeness of disclosure tone. *Journal of Business Finance & Accounting* **50**:1-2, 61–90. [[Crossref](#)]
538. Alexander Cuntz, Paul J. Heald, Matthias Sahli. 2023. Digitization and Availability of Artworks in Online Museum Collections. *SSRN Electronic Journal* . [[Crossref](#)]
539. Brenda Jones Harden, Bonnie E. Brett, Jacquelyn T. Gross, Christina Weiland, Jordan Berne, Elisa L. Klein, Christy Tirrell-Corbin. 2023. Benefits of pre-kindergarten for children in Baltimore, MD. *Early Childhood Research Quarterly* **64**, 1–12. [[Crossref](#)]
540. Vikram Dayal, Anand Murugesan. Regression Discontinuity Design 169–192. [[Crossref](#)]
541. Zeyuan Chen, Albert Park. 2023. Rural Pensions, Intra-Household Bargaining, and Elderly Medical Expenditure in the People’s Republic of China. *SSRN Electronic Journal* **36**. . [[Crossref](#)]
542. Patryk Perkowski. 2023. Gender Representation and the Adoption of Hiring Algorithms: Evidence from MBA Students and Executives. *SSRN Electronic Journal* . [[Crossref](#)]
543. Matthias Breuer, Anthony Le, Felix Vetter. 2023. Audit Mandates, Audit Firms, and Auditors. *SSRN Electronic Journal* **4**. . [[Crossref](#)]
544. Jeong-Bon Kim, Albert Mensah, Vicki Wei Tang, M.H. Franco Wong. 2023. Wisdom of Crowds along the Supply Chain: Causal Evidence from Trade Credit. *SSRN Electronic Journal* **38**. . [[Crossref](#)]
545. Ridwan Karim. 2023. Voter-Buying, Electoral Reform, and Public Good Provision in Brazil. *SSRN Electronic Journal* **134**. . [[Crossref](#)]
546. Dirk Jenter, Thomas Schmid, Daniel Urban. 2023. Does Board Size Matter?. *SSRN Electronic Journal* . [[Crossref](#)]
547. Jens Foerderer, Gordon Burtch. 2023. Estimating Career Benefits from Online Community Leadership: Evidence from Stack Exchange Moderators. *SSRN Electronic Journal* **62**. . [[Crossref](#)]
548. Julian Nuessle, Kerstin Pull. 2023. Can You Handle High Expectations When Encountering an Early Setback? The Moderating Role of Trait Resilience. *SSRN Electronic Journal* **64**. . [[Crossref](#)]

549. Barbara Broadway, Anna Zhu. 2023. Spatial heterogeneity in welfare reform success. *SSRN Electronic Journal* **170**. . [[Crossref](#)]
550. Georges Dionne. 2023. Causality in Empirical Analyses With Emphasis on Asymmetric Information and Risk Management. *SSRN Electronic Journal* **113**. . [[Crossref](#)]
551. Jonas Jessen, Daniel Kühnle, Markus Wagner. 2023. Long-run Effects of Earlier Voting Eligibility on Turnout and Political Involvement. *SSRN Electronic Journal* **16**. . [[Crossref](#)]
552. Ben W. Lewis, W. Chad Carlos. 2023. The risk of being ranked: Investor response to marginal inclusion on the 100 Best Corporate Citizens list. *Strategic Management Journal* **44**:1, 117-140. [[Crossref](#)]
553. David Lee, Justin McCrary, Marcelo Moreira, Jack R. Porter, Luther Yap. 2023. What to Do When You Can't Use '1.96' Confidence Intervals for IV. *SSRN Electronic Journal* **20**. . [[Crossref](#)]
554. Christian Mücke, Lorian Pelizzon, Vincenzo Pezone, Anjan V. Thakor. 2023. The Carrot and the Stick: Bank Bailouts and the Disciplining Role of Board Appointments. *SSRN Electronic Journal* **28**. . [[Crossref](#)]
555. Ahmet Alkan, Sinan Sarpca. 2023. Effects of High-Achieving Peers: Findings from a National High School Assignment System. *SSRN Electronic Journal* **82**. . [[Crossref](#)]
556. Saravana Jaikumar, Pradeep K. Chintagunta, Arvind Sahay. 2023. Do No Harm? Unintended Consequences of Pharmaceutical Price Regulation in India. *SSRN Electronic Journal* **105**. . [[Crossref](#)]
557. Kingsley Offiaeli, Firat Yaman. 2023. The effect of an unconventional fare decrease on the demand for bus journeys: A regression discontinuity approach. *Journal of Public Transportation* **25**, 100053. [[Crossref](#)]
558. Massimo Pulejo. 2023. Pro-Social Backlash: The Effect of Far-Right Success on Voluntary Welfare Provision. *SSRN Electronic Journal* **50**. . [[Crossref](#)]
559. Luca Vitale. 2023. Religiosity and Local Debt Repayment: Evidence from Italian Mayors. *SSRN Electronic Journal* **123**. . [[Crossref](#)]
560. Prasenjit Chakrabarti, Santushti Gupta. 2023. Does ESG Reporting Matter for Shareholder Value? Evidence from Mandatory ESG Regulations in India. *SSRN Electronic Journal* **13**. . [[Crossref](#)]
561. John Bovay. 2023. Shaming, Stringency, and Shirking: Evidence From Food-Safety Inspections. *SSRN Electronic Journal* **126**. . [[Crossref](#)]
562. Markus Gebauer. 2023. Job Protection — It is Good to be an Insider. *IZA Journal of Labor Policy* **13**:1. . [[Crossref](#)]
563. Michela Giorcelli. 2023. The Effects of Business School Education on Manager Career Outcomes . *SSRN Electronic Journal* **59**. . [[Crossref](#)]
564. Jiehong Lou, Dana Rowangould, Alex Karner, Deb A. Niemeier. Access to Voting and Participation: Does the Policy of Limiting Mail-In Ballot Dropbox Locations in Ohio Suppress Voter Turnout? 101-137. [[Crossref](#)]
565. Haotian Zhang, Wei Zheng, Wei Zhu. 2023. Procrastinated Participation in Social Insurance Expansion: Evidence from China's New Rural Pension Scheme. *SSRN Electronic Journal* **25**. . [[Crossref](#)]
566. Sabyasachi Das. 2023. Democratic Backsliding in the World's Largest Democracy. *SSRN Electronic Journal* **115**. . [[Crossref](#)]

567. Matthew Collin, Theodore Talbot. 2023. Are age-of-marriage laws enforced? Evidence from developing countries. *Journal of Development Economics* **160**, 102950. [[Crossref](#)]
568. Nandini Gupta, Ashish Sedai. 2023. Disentangling the Impact of Financial Inclusion on Household Well-Being: The Business Finance Channel. *SSRN Electronic Journal* **138**. . [[Crossref](#)]
569. Alexander Cuntz, Matthias Sahli. 2023. Ars longa, vita brevis: The death of the creator and the impact on exhibitions and auction markets. *SSRN Electronic Journal* **20**. . [[Crossref](#)]
570. Hideki Shimada, Tomonori Honda. 2023. Gains from Solar Energy: Electricity Sales Revenue versus Bill Saving in Household Electricity Consumption. *SSRN Electronic Journal* **11**. . [[Crossref](#)]
571. Gustave Kenedi. 2023. The Impact of Financial Aid on High-Achieving, Low-Income Students: Evidence from France. *SSRN Electronic Journal* **74**. . [[Crossref](#)]
572. Naimi Johansson, Sonja C. de New, Johannes S. Kunz, Dennis Petrie, Mikael Svensson. 2023. Reductions in out-of-pocket prices and forward-looking moral hazard in health care demand. *Journal of Health Economics* **87**, 102710. [[Crossref](#)]
573. Spencer Barnes, Matthew Henriksson. 2023. The Effects of Non-proportional Fees: Evidence From Poshmark. *SSRN Electronic Journal* **110**. . [[Crossref](#)]
574. Yu Bai, Yanjun Li, Xinyan Liu, Ryuichi Tanaka. 2023. The Long-run Effect of Education on Crime: Evidence and Mechanisms. *SSRN Electronic Journal* **127**. . [[Crossref](#)]
575. Suzanne Chang, Saravana Ravindran. 2023. Financial Access and Human Capital Development. *SSRN Electronic Journal* **9**. . [[Crossref](#)]
576. Ngoc (Annie) Le, Anup Agrawal. 2023. How Do Corporate Liquidity and Repurchase Policies Respond to Unionization at Major Customer Firms?. *SSRN Electronic Journal* **25**. . [[Crossref](#)]
577. Ahmet Ozturk, Semih Tumen. 2023. The revolution is dead, long live the demolition: Education and labor market consequences of student riots. *IZA Journal of Labor Economics* **12**:1. . [[Crossref](#)]
578. Jitendra Aswani. 2023. Debt Markets Retort to Mandatory Corporate Social Responsibility. *SSRN Electronic Journal* **68**. . [[Crossref](#)]
579. Qi Zhao, Xiaoting Liu, Zuyun Liu. 2023. The impact of air pollution on physical disability in a middle-aged and older Chinese population using regression discontinuity design. *Health & Place* **79**, 102958. [[Crossref](#)]
580. Ziang Li. 2023. The Long-term Interest Rate and Corporate Bond Credit Spreads. *SSRN Electronic Journal* **110**. . [[Crossref](#)]
581. Cheng He, O. Cem Ozturk, Pradeep K. Chintagunta. 2023. Fair Lending in Car Financing: The Impact of the CFPB's Interventions on Dealer Markups and the Racial Gap. *SSRN Electronic Journal* **113**. . [[Crossref](#)]
582. Yichuan Hu, Kenneth A. Kim. 2023. Fear of Exit? Institutional Investors and Voluntary Environmental Disclosures. *SSRN Electronic Journal* . [[Crossref](#)]
583. Tim Jenkinson, Howard Jones, Emmanuel Pezier. 2023. Independent IPO Advisers. *SSRN Electronic Journal* **24**. . [[Crossref](#)]
584. Hai-Anh H. Dang, Cuong Viet Nguyen, Calogero Carletto. 2023. Did a successful fight against COVID-19 come at a cost? Impacts of the pandemic on employment outcomes in Vietnam. *World Development* **161**, 106129. [[Crossref](#)]



585. Ian Appel, Jillian Grennan. 2023. Decentralized Governance and Digital Asset Prices. *SSRN Electronic Journal* . [\[Crossref\]](#)
586. Eric Chieh C. Chang, Li Ge, Tse-Chun Lin, Xiaorong Ma. 2023. The Effect of Stock Market Indexing on Option Price Efficiency. *SSRN Electronic Journal* 5. . [\[Crossref\]](#)
587. Renjie Wang, Shuo Xia. 2023. Poison Bonds. *SSRN Electronic Journal* . [\[Crossref\]](#)
588. Sena Onen Oz, Mehmet Gumus, Wei Qi. 2023. Coins, Cards, or Apps: Impact of Payment Methods on Street Parking Occupancy and Wait Times. *SSRN Electronic Journal* 111. . [\[Crossref\]](#)
589. Federico Ricciardi, Silvia Liverani, Gianluca Baio. 2023. Dirichlet process mixture models for regression discontinuity designs. *Statistical Methods in Medical Research* 32:1, 55-70. [\[Crossref\]](#)
590. Zhenghui Li, Fanqi Zou, Bin Mo. 2022. Does mandatory CSR disclosure affect enterprise total factor productivity?. *Economic Research-Ekonomska Istraživanja* 35:1, 4902-4921. [\[Crossref\]](#)
591. Xu Si, Fu-Ling Chu. 2022. The impact of the Public Pension Program on the elderly's medical expenditures: a regression discontinuity approach. *Journal of Applied Economics* 25:1, 178-196. [\[Crossref\]](#)
592. Ervant J. Maksabedian Hernandez, Marlon Graf, Alexandria Portelli, Jason Shafrin. 2022. Estimating the impact of biosimilar entry on prices and expenditures in rheumatoid arthritis: a case study of targeted immune modulators. *Journal of Medical Economics* 25:1, 1118-1126. [\[Crossref\]](#)
593. Sara Pedron, Michael Hanselmann, Jacob Burns, Alexander Rich, Annette Peters, Margit Heier, Lars Schwettmann, Jacob H. Bor, Till Bärnighausen, Michael Laxy. 2022. The effect of population-based blood pressure screening on long-term cardiometabolic morbidity and mortality in Germany: A regression discontinuity analysis. *PLOS Medicine* 19:12, e1004151. [\[Crossref\]](#)
594. Sophiko Skhirtladze, Zurab Abramishvili, Irakli Barbakadze, Giorgi Papava. 2022. Impact of public subsidies on micro and small business development in Georgia. *Journal of Eastern European and Central Asian Research (JEECAR)* 9:6, 1083-1094. [\[Crossref\]](#)
595. Yuzi He, Keith A. Burghardt, Kristina Lerman. 2022. Leveraging change point detection to discover natural experiments in data. *EPJ Data Science* 11:1. . [\[Crossref\]](#)
596. Hoyong Jung. 2022. Anti-authoritarian attitudes after democratic movements: Evidence from the June Struggle of 1987 in South Korea. *Asian Journal of Comparative Politics* 7:4, 1115-1126. [\[Crossref\]](#)
597. Xintong Zhao, Yuehua Liu, Xin Zhang, Till Bärnighausen, Simiao Chen. 2022. The impact of retirement on inpatient healthcare utilization in Guangzhou, China: a regression discontinuity analysis of 189,031 health insurance claims. *BMC Geriatrics* 22:1. . [\[Crossref\]](#)
598. Ylva B. Almquist, Alexander Miething. 2022. The impact of an unemployment insurance reform on incidence rates of hospitalisation due to alcohol-related disorders: a quasi-experimental study of heterogeneous effects across ethnic background, educational level, employment status, and sex in Sweden. *BMC Public Health* 22:1. . [\[Crossref\]](#)
599. Ziwei Xu, Wenxuan Hou, Brian G. M. Main, Rong Ding. 2022. The impact of ESG on financial performance: a revisit with a regression discontinuity approach. *Carbon Neutrality* 1:1. . [\[Crossref\]](#)
600. Wesley Jeffrey, David R. Schaefer, Di Xu, Peter McPartlan, Sabrina Solanki. 2022. STEM learning communities promote friendships but risk academic segmentation. *Scientific Reports* 12:1. . [\[Crossref\]](#)
601. Dan A. Black, Joonhwi Joo, Robert LaLonde, Jeffrey A. Smith, Evan J. Taylor. 2022. Simple Tests for Selection: Learning More from Instrumental Variables. *Labour Economics* 79, 102237. [\[Crossref\]](#)

602. Lujiang Miao, Zhixiang Xu, Changyang Liu. 2022. Can promoting ethanol gasoline usage improve air quality? Evidence from Tianjin, China. *Chinese Journal of Population, Resources and Environment* 20:4, 341-356. [[Crossref](#)]
603. Shinsuke Asakawa, Masaru Sasaki. 2022. Can child benefit reductions increase maternal employment? Evidence from Japan. *Journal of the Japanese and International Economies* 66, 101231. [[Crossref](#)]
604. Suting Hong, Guangwei Li, Wangshuai Wang, Zhiqi Zhao. 2022. Does winning a venture competition encourage entrepreneurial exploration? Evidence from China. *China Economic Review* 76, 101876. [[Crossref](#)]
605. PANAGIOTIS AVRAMIDIS, GEORGE PENNACCHI, KONSTANTINOS SERFES, KEJIA WU. 2022. The Role of Regulation and Bank Competition in Small Firm Financing: Evidence from the Community Reinvestment Act. *Journal of Money, Credit and Banking* 54:8, 2301-2340. [[Crossref](#)]
606. Hongsheng Fang, Yunqing Su, Weijun Lu. 2022. Tax incentive and firm investment: Evidence from the Income Tax Revenue Sharing Reform in China. *Accounting & Finance* 62:5, 4849-4884. [[Crossref](#)]
607. Hao Li, Zhisheng Li. 2022. The effect of daily price limits on stock liquidity: Evidence from the Chinese stock market. *Accounting & Finance* 62:5, 4885-4917. [[Crossref](#)]
608. Leandro S. Pongeluppe. 2022. The favela effect: Spatial inequalities and firm strategies in disadvantaged urban communities. *Strategic Management Journal* 43:13, 2777-2808. [[Crossref](#)]
609. Christoph Engel. 2022. Lucky you: Your case is heard by a seasoned panel—Panel effects in the German Constitutional Court. *Journal of Empirical Legal Studies* 19:4, 1179-1221. [[Crossref](#)]
610. Alessio Gaggero, Joan Gil, Dolores Jiménez-Rubio, Eugenio Zucchelli. 2022. Does health information affect lifestyle behaviours? The impact of a diabetes diagnosis. *Social Science & Medicine* 314, 115420. [[Crossref](#)]
611. Yunfei Li, Akira Babazono, Aziz Jamal, Ning Liu, Takako Fujita, Rui Zhao, Yukari Maeno, Ya Su, Lifan Liang, Lan Yao. 2022. The impact of lifestyle guidance intervention on health outcomes among Japanese middle-aged population with metabolic syndrome: A regression discontinuity study. *Social Science & Medicine* 314, 115468. [[Crossref](#)]
612. Pauline Leung. 2022. State responses to federal matching grants: The case of medicaid. *Journal of Public Economics* 216, 104746. [[Crossref](#)]
613. Leila Bengali. 2022. Assessing evidence for inattention to the costs of homeownership. *Journal of Housing Economics* 58, 101861. [[Crossref](#)]
614. Tingting Duan, Jiashen Feng, Xuan Chang, Yingxia Li. 2022. Evaluation of the effectiveness and effects of long-term ecological restoration on watershed water quality dynamics in two eutrophic river catchments in Lake Chaohu Basin, China. *Ecological Indicators* 145, 109592. [[Crossref](#)]
615. Beata Bieszk-Stolorz. 2022. Impact of Subsidy Programmes on the Development of the Number and Output of RES Micro-Installations in Poland. *Energies* 15:24, 9357. [[Crossref](#)]
616. John P. Papay, Ann Mantil, Richard J. Murnane. 2022. On the Threshold: Impacts of Barely Passing High-School Exit Exams on Post-Secondary Enrollment and Completion. *Educational Evaluation and Policy Analysis* 44:4, 717-733. [[Crossref](#)]
617. Natalie A. Koziol, J. Marc Goodrich, HyeonJin Yoon. 2022. A Regression Discontinuity Design Framework for Controlling Selection Bias in Evaluations of Differential Item Functioning. *Educational and Psychological Measurement* 82:6, 1247-1277. [[Crossref](#)]

618. Karl M F Emmert-Fees, Sara Capacci, Franco Sassi, Mario Mazzocchi, Michael Laxy. 2022. Estimating the impact of nutrition and physical activity policies with quasi-experimental methods and simulation modelling: an integrative review of methods, challenges and synergies. *European Journal of Public Health* **32**:Supplement\_4, iv84-iv91. [[Crossref](#)]
619. Simiao Chen, Zhuang Hao, Till Bärnighausen. 2022. The effects of a wife's retirement on her husband's mental health among older adults in China. *Applied Economics Letters* **29**:20, 1891-1896. [[Crossref](#)]
620. Anna Adamecz-Völgyi. 2022. Oktatási reformok hatása kérdőíves adatokon. Befolyásolják-e a reformok a részvételt, a lemorzsolódást és a választadást?. *Közgazdasági Szemle* **69**:11, 1298-1323. [[Crossref](#)]
621. Ioana Marinescu, Sofia Triantafyllou, Konrad Kording. 2022. Regression discontinuity threshold optimization. *PLOS ONE* **17**:11, e0276755. [[Crossref](#)]
622. Xiaoyi Ji, Ling Gao, Huan Liu, Shengyu He, Baoqing Zhu, Cheng Chow, Jieqiong Chen, Zhipeng Lu, Li Li. 2022. Does public health policy quality foster state innovation capacity? Evidence from a global panel data. *Frontiers in Public Health* **10**. . [[Crossref](#)]
623. Fabian Feger, Nicola Pavanini, Doina Radulescu. 2022. Welfare and Redistribution in Residential Electricity Markets with Solar Power. *The Review of Economic Studies* **89**:6, 3267-3302. [[Crossref](#)]
624. Alessandro Varacca, Linda Arata, Elena Castellari, Paolo Sckokai. 2022. Does CAP greening affect farms' economic and environmental performances? A regression discontinuity design analysis. *European Review of Agricultural Economics* **92**. . [[Crossref](#)]
625. Francisco Pedraja-Chaparro, Daniel Santín, Rosa Simancas. 2022. Show me the money! The impact of a conditional cash transfer on educational achievement. *Empirical Economics* **63**:5, 2721-2750. [[Crossref](#)]
626. Douglas Cumming, Hisham Farag, Sofia Johan, Danny McGowan. 2022. The Digital Credit Divide: Marketplace Lending and Entrepreneurship. *Journal of Financial and Quantitative Analysis* **57**:7, 2659-2692. [[Crossref](#)]
627. Jian Xu, Jiaying Zheng. 2022. Mass media, air quality, and management turnover. *Journal of International Financial Markets, Institutions and Money* **81**, 101688. [[Crossref](#)]
628. Christopher Armstrong, John D. Kepler, Delphine Samuels, Daniel Taylor. 2022. Causality redux: The evolution of empirical methods in accounting research and the growth of quasi-experiments. *Journal of Accounting and Economics* **74**:2-3, 101521. [[Crossref](#)]
629. Hai-Anh H. Dang, Masako Hiraga, Cuong Viet Nguyen. 2022. Childcare and maternal employment: Evidence from Vietnam. *World Development* **159**, 106022. [[Crossref](#)]
630. Pelin Akyol, Murat Güray Kırdar. 2022. Compulsory schooling reform and intimate partner violence in Turkey. *European Economic Review* **150**, 104313. [[Crossref](#)]
631. Gimede Gigante, Davide Manglaviti. 2022. The ESG effect on the cost of debt financing: A sharp RD analysis. *International Review of Financial Analysis* **84**, 102382. [[Crossref](#)]
632. Nadiia Matsiuk. 2022. Thrive, survive, or perish: The impact of regional autonomy on the demographic dynamics of Italian Alpine territories. *Journal of Regional Science* **62**:5, 1512-1558. [[Crossref](#)]

633. Pengju Zhang, Phuong Nguyen-Hoang, Na Chen. 2022. The impact of home rule on municipal boundary and fiscal expansion: Evidence from Texas. *Journal of Regional Science* **62**:5, 1442-1466. [[Crossref](#)]
634. Yonglian Chang, Peipei Hu, Yingjun Huang, Zhengmin Duan. 2022. Effectiveness and heterogeneity evaluation of regional collaborative governance on haze pollution control: Evidence from 284 prefecture-level cities in China. *Sustainable Cities and Society* **86**, 104120. [[Crossref](#)]
635. Yi Che, Yi Lu, Justin R. Pierce, Peter K. Schott, Zhigang Tao. 2022. Did trade liberalization with China influence US elections?. *Journal of International Economics* **139**, 103652. [[Crossref](#)]
636. Andreas G.F. Hoepner, Ming-Tsung Lin. 2022. Do shareholder views affect corporate political activities?. *International Review of Financial Analysis* **84**, 102310. [[Crossref](#)]
637. Mikkel Haderup Larsen. 2022. Once they are seated: the impact of radical right parties' political representation on attitudes of trust and solidarity. *European Political Science Review* **23**, 1-18. [[Crossref](#)]
638. Sergey Chernenko, Isil Erel, Robert Prilmeier. 2022. Why Do Firms Borrow Directly from Nonbanks?. *The Review of Financial Studies* **35**:11, 4902-4947. [[Crossref](#)]
639. Ummad Mazhar. 2022. Gaining more, producing less: the link between an obese workforce and firm-level productivity. *Journal of Economic Studies* **115**. . [[Crossref](#)]
640. Hyoseok (David) Hwang. 2022. The real effects of local mutual funds: Evidence from corporate innovation. *International Review of Finance* **73**. . [[Crossref](#)]
641. Klaus Deniniger, Daniel Ayalew Ali, Roman Neyter. Impacts of Transparent Online Auctions on Public Land Lease Revenue: Evidence from Legal and Administrative Changes in Ukraine **86**, . [[Crossref](#)]
642. Hai-Anh H. Dang, Trong-Anh Trinh. 2022. The Beneficial Impacts of COVID-19 Lockdowns on Air Pollution: Evidence from Vietnam. *The Journal of Development Studies* **58**:10, 1917-1933. [[Crossref](#)]
643. Kirsten Sehnbruch, Rafael Carranza Navarrete, Dante Contreras Guajardo. 2022. Unemployment Insurance in Transition and Developing Countries: Moral Hazard vs. Liquidity Constraints in Chile. *The Journal of Development Studies* **58**:10, 2089-2109. [[Crossref](#)]
644. Augusto Cerqua, Guido Pellegrini. 2022. How much does state aid mitigate employment losses? Local policy effects at a time of economic crisis. *Regional Studies* **56**:10, 1698-1712. [[Crossref](#)]
645. Ryan W. Tang, Andrew Beer. 2022. Regional innovation and the retention of foreign direct investment: a place-based approach. *Regional Studies* **56**:10, 1757-1770. [[Crossref](#)]
646. Marcel Van Asseldonk, Gideon Onumah, Robert Lensink. 2022. Credit-linked insurance bundles in Zambia: evidence from the aftermath of a shock. *Agricultural Finance Review* **82**:5, 857-870. [[Crossref](#)]
647. Bilge Erten, Pinar Keskin. 2022. Does Knowledge Empower? Education, Legal Awareness, and Intimate Partner Violence. *Feminist Economics* **28**:4, 29-59. [[Crossref](#)]
648. Zhijie Guan, Yue Zhang. 2022. The impact of increases in log import prices under Russia's control of log exports on the market price of timber products in China. *International Wood Products Journal* **13**:4, 227-235. [[Crossref](#)]
649. David S. Lee, Justin McCrary, Marcelo J. Moreira, Jack Porter. 2022. Valid t-ratio Inference for IV. *American Economic Review* **112**:10, 3260-3290. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]

650. Toshiaki Iizuka, Hitoshi Shigeoka. 2022. Is Zero a Special Price? Evidence from Child Health Care. *American Economic Journal: Applied Economics* **14**:4, 381-410. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
651. Chong Lu. 2022. The effect of migration on rural residents' intergenerational subjective social status mobility in China. *Quality & Quantity* **56**:5, 3279-3308. [[Crossref](#)]
652. Ke Li, Weihong Yuan, Jianglong Li. 2022. Causal association between metro transits and air quality: China's evidence. *Environmental Science and Pollution Research* **29**:46, 70435-70447. [[Crossref](#)]
653. Jiong Zhu, Songqing Jin, Zhong Tang, Titus Awokuse. 2022. The Effect of Pension Income on Land Transfers: Evidence from Rural China. *Economic Development and Cultural Change* **71**:1, 333-371. [[Crossref](#)]
654. Juan F. Castro, Bruno Esposito. 2022. The Effect of Bonuses on Teacher Retention and Student Learning in Rural Schools: A Story of Spillovers. *Education Finance and Policy* **17**:4, 693-718. [[Crossref](#)]
655. Hanna Mühlrad. 2022. Cesarean sections for high-risk births: health, fertility, and labor market outcomes\*. *The Scandinavian Journal of Economics* **124**:4, 1056-1086. [[Crossref](#)]
656. Diego Zambiasi. 2022. Drugs on the Web, Crime in the Streets. The Impact of Shutdowns of Dark Net Marketplaces on Street Crime. *Journal of Economic Behavior & Organization* **202**, 274-306. [[Crossref](#)]
657. Lisa De Simone, Marcel Olbert. 2022. Real Effects of Private Country-by-Country Disclosure. *The Accounting Review* **97**:6, 201-232. [[Crossref](#)]
658. Daniele Bondonio. 2022. Does the Running Variable Matter? A Second Look at Discontinuity Designs for Evaluating Regional Economic Development and Business Incentive Policies. *Evaluation Review* **46**:5, 598-625. [[Crossref](#)]
659. Alexandre Sauquet. 2022. Ex post analysis of the crop diversification measure of CAP greening in France. *European Review of Agricultural Economics* **92**. . [[Crossref](#)]
660. Tommaso Giommoni, Gabriel Loumeau. 2022. Lockdown and voting behaviour: a natural experiment on postponed elections during the COVID-19 pandemic. *Economic Policy* **37**:111, 547-599. [[Crossref](#)]
661. Adams Aziz Abdulai, Motosi Kusadokoro, Atsushi Chitose, Masaaki Yamada. 2022. The Impact of Elite Farmers on Cocoa Pests and Diseases in Ghana and Côte d'Ivoire. *Journal of Rural Problems* **58**:3, 111-121. [[Crossref](#)]
662. Antonio Accetturo. 2022. Subsidies for innovative start-ups and firm entry. *Industrial and Corporate Change* **31**:5, 1202-1222. [[Crossref](#)]
663. Jianing Zhu. 2022. Analysis of Stock Market Information Leakage by RDD. *Economic Analysis Letters* **1**:1, 28-33. [[Crossref](#)]
664. Roxanne Korthals, Trudie Schils, Lex Borghans. 2022. Track placement and the development of cognitive and non-cognitive skills. *Education Economics* **30**:5, 540-559. [[Crossref](#)]
665. Michael E. Shepherd. 2022. The politics of pain: Medicaid expansion, the ACA and the opioid epidemic. *Journal of Public Policy* **42**:3, 409-435. [[Crossref](#)]
666. Falco J. Bargagli-Stoffi, Kristof De Witte, Giorgio Gnecco. 2022. Heterogeneous causal effects with imperfect compliance: A Bayesian machine learning approach. *The Annals of Applied Statistics* **16**:3. . [[Crossref](#)]

667. Miguel Gómez-Antonio, Ignacio del Moral Arce, Miriam Hortas-Rico. 2022. Are VAT reforms an effective tool for promoting culture? A quasi-experiment in Spain. *Journal of Policy Modeling* **44**:5, 1016–1040. [[Crossref](#)]
668. Antonis Adam, Sofia Tsarsitalidou. 2022. The effect of international development association's (IDA) aid on conflict. A fuzzy regression discontinuity approach. *European Journal of Political Economy* **74**, 102162. [[Crossref](#)]
669. Carlos Martins-Filho, Sihong Xie, Feng Yao. 2022. A new estimator of a jump discontinuity in regression. *Economics Letters* **218**, 110711. [[Crossref](#)]
670. Nicolas Schneider. 2022. Unveiling the anthropogenic dynamics of environmental change with the stochastic IRPAT model: A review of baselines and extensions. *Environmental Impact Assessment Review* **96**, 106854. [[Crossref](#)]
671. Axel Merkel, Samuel Lindgren. 2022. Effects of fairway dues on the deployment and utilization of vessels: Lessons from a regression discontinuity design. *Transport Policy* **126**, 204–214. [[Crossref](#)]
672. Luis A. Guzman, Philipp Hessel. 2022. The effects of public transport subsidies for lower-income users on public transport use: A quasi-experimental study. *Transport Policy* **126**, 215–224. [[Crossref](#)]
673. Nan Hu, Xingnan Xue, Ling Liu. 2022. The impact of air pollution on financial reporting quality: evidence from China. *Accounting & Finance* **62**:3, 3609–3644. [[Crossref](#)]
674. Mauricio Villamizar-Villegas, Freddy A. Pinzon-Puerto, Maria Alejandra Ruiz-Sanchez. 2022. A comprehensive history of regression discontinuity designs: An empirical survey of the last 60 years. *Journal of Economic Surveys* **36**:4, 1130–1178. [[Crossref](#)]
675. Tien Manh Vu, Hiroyuki Yamada. 2022. Do enterprise zones promote local business development? Evidence from Vietnam. *Journal of Regional Science* **62**:4, 1206–1224. [[Crossref](#)]
676. Yi Chen, Yi Zhao. 2022. The timing of first marriage and subsequent life outcomes: Evidence from a natural experiment. *Journal of Comparative Economics* **50**:3, 713–731. [[Crossref](#)]
677. Igor Francetic, Rachel Meacock, Matt Sutton. 2022. Understanding Concordance in Health Behaviours among Couples: Evidence from the Bowel Cancer Screening Programme in England. *Journal of Economic Behavior & Organization* **201**, 310–345. [[Crossref](#)]
678. Mats Wilhelmsson. 2022. What is the impact of macroprudential regulations on the Swedish housing market?. *Journal of Housing Economics* **57**, 101840. [[Crossref](#)]
679. Kunyu Wang, Anthony Heyes. 2022. Does the party in power affect FDI? First causal evidence from narrow margin US state elections. *Party Politics* **28**:5, 797–810. [[Crossref](#)]
680. Sylvain Chareyron, Rémi Le Gall, Yannick L'Horty. 2022. Droits et devoirs du RSA : l'impact des contrôles sur la participation des bénéficiaires. *Revue économique* **Vol. 73**:5, 735–759. [[Crossref](#)]
681. Franziska Zimmert, Alexander Zorn. 2022. Direct payments and on-farm employment: Evidence from a spatial regression discontinuity design. *Q Open* **88**. . [[Crossref](#)]
682. Kai Zhao, Huahua Huang, Wanshu Wu. 2022. Can the establishment of state-level urban agglomeration stimulate enterprise innovation?—Taking Yangtze River Delta and Pearl River Delta as an example. *PLOS ONE* **17**:8, e0273154. [[Crossref](#)]
683. Joshua D Gottlieb, Richard R Townsend, Ting Xu. 2022. Does Career Risk Deter Potential Entrepreneurs?. *The Review of Financial Studies* **35**:9, 3973–4015. [[Crossref](#)]



684. Cheryl Long, Jin Yang. 2022. CCP committees, worker benefits and firm performance: empirical evidence from Chinese private firms. *Journal of Participation and Employee Ownership* 5:2, 112-134. [[Crossref](#)]
685. Ziju Yan, Nan Xiang, Jia Meng, Hang Liang, Zhang Yue. 2022. Understanding the effect of retirement on health behaviors in China: Causality, heterogeneity and time-varying effect. *Frontiers in Public Health* 10. . [[Crossref](#)]
686. Matias D. Cattaneo, Rocío Titiunik. 2022. Regression Discontinuity Designs. *Annual Review of Economics* 14:1, 821-851. [[Crossref](#)]
687. Tatjana Begerow, Hendrik Jürges. 2022. Does compulsory schooling affect health? Evidence from ambulatory claims data. *The European Journal of Health Economics* 23:6, 953-968. [[Crossref](#)]
688. Byung Hyun Ahn, Panos N. Patatoukas. 2022. Identifying the Effect of Stock Indexing: Impetus or Impediment to Arbitrage and Price Discovery?. *Journal of Financial and Quantitative Analysis* 57:5, 2022-2062. [[Crossref](#)]
689. Daniel Carmody, Martina Mazzarello, Paolo Santi, Trevor Harris, Sune Lehmann, Timur Abbasov, Robin Dunbar, Carlo Ratti. 2022. The effect of co-location on human communication networks. *Nature Computational Science* 2:8, 494-503. [[Crossref](#)]
690. Swarup Joshi. 2022. How effective are Governor's party affiliated campaign promises on crime? Evidence from U.S. states. *Economic Modelling* 113, 105876. [[Crossref](#)]
691. Matthew Naven, Daniel Whalen. 2022. The signaling value of university rankings: Evidence from top 14 law schools. *Economics of Education Review* 89, 102282. [[Crossref](#)]
692. Raphael Brade, Oliver Himmler, Robert Jäckle. 2022. Relative performance feedback and the effects of being above average — field experiment and replication. *Economics of Education Review* 89, 102268. [[Crossref](#)]
693. Hongsheng Fang, Yunqing Su, Weijun Lu. 2022. Tax incentive and corporate financial performance: Evidence from income tax revenue sharing reform in China. *Journal of Asian Economics* 81, 101505. [[Crossref](#)]
694. MORTEN BENNEDSEN, ELENA SIMINTZI, MARGARITA TSOUTSOURA, DANIEL WOLFENZON. 2022. Do Firms Respond to Gender Pay Gap Transparency?. *The Journal of Finance* 77:4, 2051-2091. [[Crossref](#)]
695. Zach Raff, Andrew Meyer, Jason M. Walter. 2022. Political differences in air pollution abatement under the Clean Air Act. *Journal of Public Economics* 212, 104688. [[Crossref](#)]
696. Per Engström, Katarina Nordblom, Arnaldur Stefánsson. 2022. Loss aversion and indifference to tax rates: Evidence from tax filing data. *Journal of Economic Behavior & Organization* 200, 287-311. [[Crossref](#)]
697. Stephan Geschwind, Felix Roesel. 2022. Taxation under direct democracy. *Journal of Economic Behavior & Organization* 200, 536-554. [[Crossref](#)]
698. Daniel Mirza, Elena Stancanelli, Thierry Verdier. 2022. Household expenditure in the wake of terrorism: Evidence from high frequency in-home-scanner data. *Economics & Human Biology* 46, 101150. [[Crossref](#)]
699. Youmi Suk, Peter M. Steiner, Jee-Seon Kim, Hyunseung Kang. 2022. Regression Discontinuity Designs With an Ordinal Running Variable: Evaluating the Effects of Extended Time

Accommodations for English-Language Learners. *Journal of Educational and Behavioral Statistics* **47**:4, 459-484. [[Crossref](#)]

700. Ross M. Stolzenberg, James Lindgren. 2022. Judges as Party Animals: Retirement Timing by Federal Judges and Party Control of Judicial Appointments. *American Sociological Review* **87**:4, 675-697. [[Crossref](#)]
701. Marislei Nishijima, Mauro Rodrigues, Thaís Luiza Donega Souza. 2022. Is Rotten Tomatoes killing the movie industry? A regression discontinuity approach. *Applied Economics Letters* **29**:13, 1187-1192. [[Crossref](#)]
702. Eleftherios Giovanis, Oznur Ozdamar, Burcu Özdaş. 2022. The effect of unemployment benefits on health and living standards in Turkey: evidence from structural equation modelling and regression discontinuity design. *International Journal of Manpower* **43**:4, 962-981. [[Crossref](#)]
703. Cecilia Hyunjung Mo, John B. Holbein, Elizabeth Mitchell Elder. 2022. Civilian national service programs can powerfully increase youth voter turnout. *Proceedings of the National Academy of Sciences* **119**:29. . [[Crossref](#)]
704. Danny McGowan, Huyen Nguyen. 2022. To Securitize or to Price Credit Risk?. *Journal of Financial and Quantitative Analysis* **63**, 1-35. [[Crossref](#)]
705. Ana Cléssia Pereira Lima de Araújo, Maria Analice D. Santos Sampaio, Edward Martins Costa, Ahmad Saeed Khan, Guilherme Irffi, Rayssa Alexandre Costa. 2022. The quotas law for people with disabilities in Brazil: is it a guarantee of employment?. *International Review of Applied Economics* **36**:4, 496-525. [[Crossref](#)]
706. Zhuan Pei, David S. Lee, David Card, Andrea Weber. 2022. Local Polynomial Order in Regression Discontinuity Designs. *Journal of Business & Economic Statistics* **40**:3, 1259-1267. [[Crossref](#)]
707. Jorge Garcia-Hombrados. 2022. Child marriage and infant mortality: causal evidence from Ethiopia. *Journal of Population Economics* **35**:3, 1163-1223. [[Crossref](#)]
708. Hirotaka Kato, Rei Goto, Taishi Tsuji, Katsunori Kondo. 2022. The effects of patient cost-sharing on health expenditure and health among older people: Heterogeneity across income groups. *The European Journal of Health Economics* **23**:5, 847-861. [[Crossref](#)]
709. Xingchi Shen, Yueming Lucy Qiu, Pengfei Liu, Anand Patwardhan. 2022. The Effect of Rebate and Loan Incentives on Residential Heat Pump Adoption: Evidence from North Carolina. *Environmental and Resource Economics* **82**:3, 741-789. [[Crossref](#)]
710. Jorge Mangonnet, Jacob Kopas, Johannes Urpelainen. 2022. Playing Politics with Environmental Protection: The Political Economy of Designating Protected Areas. *The Journal of Politics* **84**:3, 1453-1468. [[Crossref](#)]
711. Robert Kelchen, Zhuoyao Liu. 2022. Did Gainful Employment Regulations Result in College and Program Closures?. *Education Finance and Policy* **17**:3, 454-478. [[Crossref](#)]
712. Zhilin Hu. 2022. Would central government's direct supervisions enhance local environmental qualities? Evidence from China. *International Studies of Economics* **17**:2, 261-275. [[Crossref](#)]
713. Ziwei Yan, Chunying Cui. 2022. How Natural Gas Infrastructure Affects Carbon Emission Indicators in Guangdong Province?. *Sustainability* **14**:13, 8104. [[Crossref](#)]
714. Tao Lin, Wenhao Qian, Hongwei Wang, Yu Feng. 2022. Air Pollution and Workplace Choice: Evidence from China. *International Journal of Environmental Research and Public Health* **19**:14, 8732. [[Crossref](#)]

715. Dominik Deffner, Julia M. Rohrer, Richard McElreath. 2022. A Causal Framework for Cross-Cultural Generalizability. *Advances in Methods and Practices in Psychological Science* 5:3. . [\[Crossref\]](#)
716. Lukas Fervers, Anna Kurowska. 2022. Local cultural context as a moderator of the impact of childcare on maternal employment: Evidence from a natural experiment. *Journal of European Social Policy* 32:3, 239-253. [\[Crossref\]](#)
717. Liang Guo, Feng Jiang. 2022. Is cross border tourism an effective means to achieve political goals? Evidence from Mainland China and Taiwan. *Applied Economics Letters* 29:11, 959-965. [\[Crossref\]](#)
718. Christian Blanco, Francisco Meneses, Mateo Villamizar-Chaparro. Why Student Aid Matters? Roadblocks to the Transition into Higher Education for Forced Migrants in Chile 4, . [\[Crossref\]](#)
719. Anqi Zhang, Yi Zhang, Yiwen Tao. 2022. Does Retirement Make People Happier?-Evidence From China. *Frontiers in Public Health* 10. . [\[Crossref\]](#)
720. Tobias Heide-Jørgensen. 2022. Payday and Public Opinion toward Taxation. *Public Opinion Quarterly* 86:2, 317-342. [\[Crossref\]](#)
721. Ved Dilip Beloskar, S. V. D. Nageswara Rao. 2022. Corporate Social Responsibility: Is Too Much Bad?—Evidence from India. *Asia-Pacific Financial Markets* 29:2, 221-252. [\[Crossref\]](#)
722. Yoon-Jung Choi. 2022. Property tax interaction among overlapping local jurisdictions: quasi-experimental evidence from school bond referenda. *International Tax and Public Finance* 29:3, 537-580. [\[Crossref\]](#)
723. Yiming He, Meng Chen. 2022. Do Urbanization and Energy-environment Policies Affect Housing Values? Evidence From Spatial Textual Analysis. *Applied Spatial Analysis and Policy* 15:2, 365-395. [\[Crossref\]](#)
724. Edinson Tolentino. 2022. An evaluation of a mandatory profit-sharing reform in Peru, using quasi-experimental methods. *Journal of Industrial and Business Economics* 49:2, 313-334. [\[Crossref\]](#)
725. Akira Fukuda. 2022. “Effects of Financial Frictions on Employment: Evidence from Japan during the Global Financial Crisis”. *Journal of the Japanese and International Economies* 31, 101213. [\[Crossref\]](#)
726. Peter Eibich, Angelo Lorenti, Irene Mosca. 2022. Does retirement affect voluntary work provision? Evidence from Europe and the U.S. *Labour Economics* 76, 102185. [\[Crossref\]](#)
727. Hongliang Ding, Haojie Li, N. N. Sze. 2022. Effects of the abolishment of London western charging zone on traffic flow and vehicle emissions. *International Journal of Sustainable Transportation* 16:6, 558-569. [\[Crossref\]](#)
728. Ling Zhang, Lifei Zhu, Linzun Yang. 2022. IMPACT OF MAJOR EVENTS ON HOUSING PRICES IN HANGZHOU BASED ON REGRESSION DISCONTINUITY. *International Journal of Strategic Property Management* 26:3, 203-214. [\[Crossref\]](#)
729. Nicolás de Roux, Evan Riehl. 2022. Do college students benefit from placement into higher-achieving classes?. *Journal of Public Economics* 210, 104669. [\[Crossref\]](#)
730. Monica Andini, Michela Boldrini, Emanuele Ciani, Guido de Blasio, Alessio D'Ignazio, Andrea Paladini. 2022. Machine learning in the service of policy targeting: The case of public credit guarantees. *Journal of Economic Behavior & Organization* 198, 434-475. [\[Crossref\]](#)
731. Penghu Zhu, Boqiang Lin. 2022. Do the elderly consume more energy? Evidence from the retirement policy in urban China. *Energy Policy* 165, 112928. [\[Crossref\]](#)

732. Walid Y. Busaba, Felipe Restrepo. 2022. The “7% solution” and IPO (under)pricing. *Journal of Financial Economics* 144:3, 953-971. [[Crossref](#)]
733. Erlene E. Martinez-Miller, Tammy Leonard, Sandi L. Pruitt. 2022. Aging into Medicare among a senior food pantry population: An assessment of food pantry visit patterns and food security over time. *Applied Economic Perspectives and Policy* 44:2, 687-701. [[Crossref](#)]
734. Bahadır Dursun, Resul Cesur, Inas R. Kelly. 2022. Mandatory Schooling of Girls Improved Their Children's Health: Evidence from Turkey's 1997 Education Reform. *Journal of Policy Analysis and Management* 41:3, 824-858. [[Crossref](#)]
735. Konstantin Koerner, Michael Moritz, Johannes Schäffler. 2022. Foreign direct investment and onshore employment dynamics: Evidence from German firms with affiliates in the Czech Republic. *The World Economy* 45:6, 1773-1829. [[Crossref](#)]
736. Christoph Engel, Sebastian J. Goerg, Christian Traxler. 2022. Intensified support for juvenile offenders on probation: Evidence from Germany. *Journal of Empirical Legal Studies* 19:2, 447-490. [[Crossref](#)]
737. Tao Chen, Kam C. Chan, Haodong Chang. 2022. Periodicity of trading activity in foreign exchange markets. *Journal of Financial Research* 45:2, 445-465. [[Crossref](#)]
738. Stefan Klonner, Christian Oldiges. 2022. The welfare effects of India's rural employment guarantee. *Journal of Development Economics* 157, 102848. [[Crossref](#)]
739. Augusto Cerqua, Guido Pellegrini, Ornella Tarola. 2022. Can regional policies shape migration flows?. *Papers in Regional Science* 101:3, 515-537. [[Crossref](#)]
740. Anja Bondebjerg, Trine Filges, Jan H. Pejtersen, Bjørn C. A. Viinholt, Hermann Burr, Peter Hasle, Emile Tompa, Kirsten Birkefoss, Elizabeth Bengtsen. 2022. PROTOCOL: Occupational health and safety regulatory interventions to improve the work environment: An evidence and gap map of effectiveness studies. *Campbell Systematic Reviews* 18:2. . [[Crossref](#)]
741. Laura Goßner, Yuliya Kosyakova, Marie-Christine Laible. 2022. Resilient or Vulnerable? Effects of the COVID-19 Crisis on the Mental Health of Refugees in Germany. *International Journal of Environmental Research and Public Health* 19:12, 7409. [[Crossref](#)]
742. Xin Chen. 2022. How does local autonomy shape the revenues of small municipalities? Evidence from Illinois home rule municipalities. *Chinese Public Administration Review* 13:1-2, 75-86. [[Crossref](#)]
743. Eleftherios Giovanis. 2022. Impact of migration policies on socio-cultural participation and well-being: evidence from the Migration Act of 2000 in Germany. *Journal of Economic and Administrative Sciences* 68. . [[Crossref](#)]
744. Norazwina Zainol, Amirah Ya'acob, Putri Nurul Yasmin Mohd Ridza, Siti Hatijah Mortan, Kamaliah Abdul Samad. 2022. Evaluation of Factors Affecting Microbial Growth Inhibition and Optimization Using Pineapple Leaves Juice. *Pertanika Journal of Science and Technology* 30:3, 2097-2113. [[Crossref](#)]
745. Jacob Bor, Sheryl A Kluberg, Michael P LaValley, Denise Evans, Kamban Hirasen, Mhairi Maskew, Lawrence Long, Matthew P Fox. 2022. One Pill, Once a Day: Simplified Treatment Regimens and Retention in HIV Care. *American Journal of Epidemiology* 191:6, 999-1008. [[Crossref](#)]
746. Prakash Chandra Sukhwai, Atreyi Kankanhalli. 2022. Determining containment policy impacts on public sentiment during the pandemic using social media data. *Proceedings of the National Academy of Sciences* 119:19. . [[Crossref](#)]

747. Utteeyo Dasgupta, Subha Mani, Smriti Sharma, Saurabh Singhal. 2022. Effects of Peers and Rank on Cognition, Preferences, and Personality. *The Review of Economics and Statistics* **104**:3, 587-601. [[Crossref](#)]
748. Abhiroop Mukherjee, George Panayotov, Rik Sen, Harsha Dutta, Pulak Ghosh. 2022. Measuring vaccine effectiveness from limited public health datasets: Framework and estimates from India's second COVID wave. *Science Advances* **8**:18. . [[Crossref](#)]
749. Eric W. Chan. 2022. Heterogenous parental responses to education quality. *Education Economics* **30**:3, 225-250. [[Crossref](#)]
750. Tom Paskhalis, Bryn Rosenfeld, Katerina Tertytchnaya. 2022. Independent media under pressure: evidence from Russia. *Post-Soviet Affairs* **38**:3, 155-174. [[Crossref](#)]
751. Suho Ji. 2022. Role of Managerial and Political Accountability in Improving Performance of Local Governments. *Public Performance & Management Review* **45**:3, 499-531. [[Crossref](#)]
752. Angela Boatman, Susana Claro, Matias Fresard, Jenna W. Kramer. 2022. Do Corequisite Math Courses Improve Academic Outcomes in Technical Colleges?: Evidence from Chile. *Research in Higher Education* **63**:3, 453-480. [[Crossref](#)]
753. Qiang Zhang, Huiyun Liu, Zheng Wan. 2022. Evaluation on the effectiveness of ship emission control area policy: Heterogeneity detection with the regression discontinuity method. *Environmental Impact Assessment Review* **94**, 106747. [[Crossref](#)]
754. Xinjie Shi. 2022. Land reallocation responses to China's New Rural Pension Scheme: Evidence from a regression discontinuity design. *Journal of Rural Studies* **92**, 35-49. [[Crossref](#)]
755. Anna Mergoni, Kristof De Witte. 2022. Policy evaluation and efficiency: a systematic literature review. *International Transactions in Operational Research* **29**:3, 1337-1359. [[Crossref](#)]
756. Gawain Heckley, Martin Nordin, Ulf-G. Gerdtham. 2022. The health returns of attending university for the marginally eligible student. *Health Economics* **31**:5, 877-903. [[Crossref](#)]
757. Xinshuo Hou. 2022. Tourism Network Attention Variation of Chinese Cities under the COVID-19 Pandemic. *Sustainability* **14**:9, 5131. [[Crossref](#)]
758. Maximilian Gasser, Simon Pezzutto, Wolfram Sparber, Eric Wilczynski. 2022. Public Research and Development Funding for Renewable Energy Technologies in Europe: A Cross-Country Analysis. *Sustainability* **14**:9, 5557. [[Crossref](#)]
759. Guihua Wang. 2022. Stay at home to stay safe: Effectiveness of stay-at-home orders in containing the COVID-19 pandemic. *Production and Operations Management* **31**:5, 2289-2305. [[Crossref](#)]
760. Hoyong Jung. 2022. The Effect of Mayoral Gender on Gendered Budget: Evidence from South Korea. *Political Studies Review* **20**:2, 314-326. [[Crossref](#)]
761. Felipe Carozzi, Davide Cipullo, Luca Repetto. 2022. Political Fragmentation and Government Stability: Evidence from Local Governments in Spain. *American Economic Journal: Applied Economics* **14**:2, 23-50. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
762. Saima Nawaz, Fatima Gul. 2022. Cash transfer program and willingness to pay for environmental services among the ultra-poor in Pakistan. *Environmental Science and Pollution Research* **29**:20, 30249-30264. [[Crossref](#)]
763. Hyo Eun Cho, Jon Jungbien Moon, Insik Jeong. 2022. Equal ownership split in international joint ventures: performance implications in an emerging market. *Asian Business & Management* **21**:2, 205-230. [[Crossref](#)]

764. Chitra Jogani. 2022. Effect of Political Quotas on Attributes of Political Candidates and Provision of Public Goods. *Eastern Economic Journal* **48**:2, 267-316. [[Crossref](#)]
765. Dahyeon Jeong, Ajay Shenoy. 2022. Can the Party in Power Systematically Win a Majority in Close Legislative Elections? Evidence from US State Assemblies. *The Journal of Politics* **84**:2, 1149-1164. [[Crossref](#)]
766. David Card, Alex Solis. 2022. Measuring the Effect of Student Loans on College Persistence. *Education Finance and Policy* **17**:2, 335-366. [[Crossref](#)]
767. Erkmen Giray Aslim. 2022. Public health insurance and employment transitions. *Labour Economics* **75**, 102126. [[Crossref](#)]
768. Serena Canaan. 2022. Parental leave, household specialization and children's well-being. *Labour Economics* **75**, 102127. [[Crossref](#)]
769. Nico Ravanilla, Renard Sexton, Dotan Haim. 2022. Deadly Populism: How Local Political Outsiders Drive Duterte's War on Drugs in the Philippines. *The Journal of Politics* **84**:2, 1035-1056. [[Crossref](#)]
770. Yang Liu, Yaowu Yang. 2022. New "useless education theory": Highly educated parents' expectations for their children's education—Evidence from the one-child policy. *China Economic Review* **72**, 101764. [[Crossref](#)]
771. Xin Qin, Kai Chi Yam, Guangrong Ma, Chen Chen, Hang Zhu, Haixia Wang. 2022. The unintended psychological and behavioral drawbacks of big push strategies: Increased psychological entitlement, selfish behavior, and decreased prosocial behavior. *Journal of Behavioral and Experimental Economics* **97**, 101842. [[Crossref](#)]
772. Michael R.M. Abrigo, Timothy J. Halliday, Teresa Molina. 2022. Expanding health insurance for the elderly of the Philippines. *Journal of Applied Econometrics* **37**:3, 500-520. [[Crossref](#)]
773. Ramandeep Singh, Rohan Sood, Daniel J Graham. 2022. Road traffic casualties in Great Britain at daylight savings time transitions: a causal regression discontinuity design analysis. *BMJ Open* **12**:4, e054678. [[Crossref](#)]
774. Sotiris Georganas, Ioannis Laliotis, Alina Velias. 2022. The best is yet to come: The impact of retirement on prosocial behavior. *Journal of Economic Behavior & Organization* **196**, 589-615. [[Crossref](#)]
775. Sipei Xu, Jia Zhang. 2022. Do Social Pensions Affect the Physical and Mental Health of Rural Children in China? An Intergenerational Care Perspective. *International Journal of Environmental Research and Public Health* **19**:7, 3949. [[Crossref](#)]
776. Anna Brzykcy, Stephan Boehm. 2022. No such thing as a free ride: The impact of disability labels on relationship building at work. *Human Relations* **75**:4, 734-763. [[Crossref](#)]
777. Zijun (June) Shi, Xiao Liu, Kannan Srinivasan. 2022. Hype News Diffusion and Risk of Misinformation: The Oz Effect in Health Care. *Journal of Marketing Research* **59**:2, 327-352. [[Crossref](#)]
778. Katharine M Conn, Virginia S Lovison, Cecilia Hyunjung Mo. 2022. How Teaching in Underserved Schools Affects Beliefs about Education Inequality and Reform. *Public Opinion Quarterly* **86**:1, 1-28. [[Crossref](#)]
779. Siddhartha Chib, Edward Greenberg, Anna Simoni. 2022. NONPARAMETRIC BAYES ANALYSIS OF THE SHARP AND FUZZY REGRESSION DISCONTINUITY DESIGNS. *Econometric Theory* **3**, 1-53. [[Crossref](#)]



780. Christopher J Curfman, John Kandrac. 2022. The Costs and Benefits of Liquidity Regulations: Lessons from an Idle Monetary Policy Tool. *Review of Finance* **26**:2, 319-353. [[Crossref](#)]
781. Yuanmao Tang, Danping Liu, Shaobo Mou, Salmi Mohd Isa, Siyuan Gui, Qin Wan. 2022. Self-Perception or Objective State: A Further Study of the Effects of Retirement on Health. *Frontiers in Psychology* **13**. . [[Crossref](#)]
782. Siyu Xu, Yeye Zhao, Noshaba Aziz, Jun He. 2022. Does Education Affect Rural Women's Trust? Evidence From China. *Frontiers in Psychology* **13**. . [[Crossref](#)]
783. Najat El Mekkaoui, Bérangère Legendre. 2022. Does pension information impact savings?. *Journal of Pension Economics and Finance* **10**, 1-19. [[Crossref](#)]
784. Yu Hua, Hai-yan Zhang, Hou-jun Liu. 2022. Does pension affect labour supply? New evidence from large-scale rural pension policy reform in China. *Applied Economics* **54**:11, 1212-1228. [[Crossref](#)]
785. Haiya Cai, Yongqing Nan, Yongliang Zhao, Haoran Xiao. 2022. Impacts of winter heating on the population mobility of northern China's prefectural cities: evidence from a regression discontinuity design. *Kybernetes* **51**:4, 1601-1625. [[Crossref](#)]
786. Michael Greenstone, Guojun He, Ruixue Jia, Tong Liu. 2022. Can Technology Solve the Principal-Agent Problem? Evidence from China's War on Air Pollution. *American Economic Review: Insights* **4**:1, 54-70. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
787. Jacob Kopas, Johannes Urpelainen, Erin A. York. 2022. Greasing the Wheels: the Politics of Environmental Clearances in India. *Studies in Comparative International Development* **57**:1, 113-144. [[Crossref](#)]
788. Zhuoran Zhang, Burcu Akinci, Sean Qian. 2022. Inferring the causal effect of work zones on crashes: Methodology and a case study. *Analytic Methods in Accident Research* **33**, 100203. [[Crossref](#)]
789. Augusto Cerqua, Guido Pellegrini. 2022. Decomposing the employment effects of investment subsidies. *Journal of Urban Economics* **128**, 103408. [[Crossref](#)]
790. Pinka Chatterji, Tu Nguyen, Bariş K. Yörük. 2022. The Effects of Medicare on Health-Care Utilization and Spending Among the Elderly. *American Journal of Health Economics* **8**:2, 151-180. [[Crossref](#)]
791. Jinhai Yu, Xin Chen, Mark D. Robbins. 2022. Market Responses To Voter-Approved Debt. *National Tax Journal* **75**:1, 93-119. [[Crossref](#)]
792. Brian Bell, Rui Costa, Stephen Machin. 2022. Why Does Education Reduce Crime?. *Journal of Political Economy* **130**:3, 732-765. [[Crossref](#)]
793. Zaichao Du, Hua Yin, Lin Zhang. 2022. Foreign buyer taxes and house prices in Canada: A tale of two cities. *Journal of Housing Economics* **55**, 101807. [[Crossref](#)]
794. Tao Chen, Yi Huang, Chen Lin, Zixia Sheng. 2022. Finance and Firm Volatility: Evidence from Small Business Lending in China. *Management Science* **68**:3, 2226-2249. [[Crossref](#)]
795. Meg Elkins, Tim R.L. Fry. 2022. Street performers and donations in an online environment in the wake of COVID-19. *City, Culture and Society* **28**, 100438. [[Crossref](#)]
796. Yu Liang, Jing Dong. 2022. The impact of the send-down experience on the health of elderly Chinese women: Evidence from the China family panel studies. *International Review of Economics & Finance* **78**, 377-389. [[Crossref](#)]

797. Yadong Wang, Delu Wang, Xunpeng Shi. 2022. Exploring the multidimensional effects of China's coal de-capacity policy: A regression discontinuity design. *Resources Policy* **75**, 102504. [[Crossref](#)]
798. Ana Rita Nogueira, Andrea Pugnana, Salvatore Ruggieri, Dino Pedreschi, João Gama. 2022. Methods and tools for causal discovery and causal inference. *WIREs Data Mining and Knowledge Discovery* **12**:2. . [[Crossref](#)]
799. Andrew Wright, Brian Dollery, Michael Kortt, Shawn Leu. 2022. The Impact of More Intensive Unemployment Benefit Requirements on Jobseekers' Likelihood of Complying\*. *Economic Record* **98**:320, 63-79. [[Crossref](#)]
800. Gregory Elacqua, Diana Hincapie, Isabel Hincapie, Veronica Montalva. 2022. Can Financial Incentives Help Disadvantaged Schools to Attract and Retain High-Performing Teachers? Evidence from Chile. *Journal of Policy Analysis and Management* **41**:2, 603-631. [[Crossref](#)]
801. Stephen Easton, Sean Pinder. 2022. Loss aversion and high stakes. *Accounting & Finance* **62**:1, 645-665. [[Crossref](#)]
802. Matthias Breuer. 2022. Bartik Instruments: An Applied Introduction. *Journal of Financial Reporting* **7**:1, 49-67. [[Crossref](#)]
803. Anna Gunderson. 2022. Who Punishes More? Partisanship, Punitive Policies, and the Puzzle of Democratic Governors. *Political Research Quarterly* **75**:1, 3-19. [[Crossref](#)]
804. Aaron Sojourner, Jooyoung Yang. 2022. Effects of Union Certification on Workplace-Safety Enforcement: Regression-Discontinuity Evidence. *ILR Review* **75**:2, 373-401. [[Crossref](#)]
805. Oded Gurantz, Taylor K. Odle. 2022. The Impact of Merit Aid on College Choice and Degree Attainment: Reexamining Florida's Bright Futures Program. *Educational Evaluation and Policy Analysis* **44**:1, 79-104. [[Crossref](#)]
806. Xinrui Zhang, Hanqing Fang, Junsheng Dou, James J. Chrisman. 2022. Endogeneity Issues in Family Business Research: Current Status and Future Recommendations. *Family Business Review* **35**:1, 91-116. [[Crossref](#)]
807. Daniela Balutel, Marcel Cristian Voia. 2022. The effects of bank levies post-financial crisis in Eastern Europe. *Post-Communist Economies* **34**:2, 196-218. [[Crossref](#)]
808. Hui Yuan, Shuoqi Chen, Guochen Pan, Lingyun Zheng. 2022. Social Pension Scheme and Health Inequality: Evidence From China's New Rural Social Pension Scheme. *Frontiers in Public Health* **9**. . [[Crossref](#)]
809. Mark Duggan, Atul Gupta, Emilie Jackson. 2022. The Impact of the Affordable Care Act: Evidence from California's Hospital Sector. *American Economic Journal: Economic Policy* **14**:1, 111-151. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
810. E. Jason Baron. 2022. School Spending and Student Outcomes: Evidence from Revenue Limit Elections in Wisconsin. *American Economic Journal: Economic Policy* **14**:1, 1-39. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
811. Lan Yi, Zhi-rong Kang, Li Yang, Mohammad Musa, Fei Wang. 2022. Do driving restriction policies effectively alleviate smog pollution in China?. *Environmental Science and Pollution Research* **29**:8, 11405-11417. [[Crossref](#)]
812. Raffi E. García, Suzanne Steele. 2022. Stress testing and bank business patterns: A regression discontinuity study. *Journal of Banking & Finance* **135**, 105964. [[Crossref](#)]

813. Andrew Bird, Aytekin Ertan, Stephen A. Karolyi, Thomas G. Ruchti. 2022. Lender Forbearance. *Journal of Financial and Quantitative Analysis* **57**:1, 207-239. [[Crossref](#)]
814. Manthos D. Delis, Iftekhhar Hasan, Maria Iosifidi, Steven Ongena. 2022. Gender, Credit, and Firm Outcomes. *Journal of Financial and Quantitative Analysis* **57**:1, 359-389. [[Crossref](#)]
815. Ben Groom, Charles Palmer, Lorenzo Sileci. 2022. Carbon emissions reductions from Indonesia's moratorium on forest concessions are cost-effective yet contribute little to Paris pledges. *Proceedings of the National Academy of Sciences* **119**:5. . [[Crossref](#)]
816. Mark Carlson, Sergio Correia, Stephan Luck. 2022. The Effects of Banking Competition on Growth and Financial Stability: Evidence from the National Banking Era. *Journal of Political Economy* **130**:2, 462-520. [[Crossref](#)]
817. Jaeung Sim, Jea Gon Park, Daegon Cho, Michael D. Smith, Jaemin Jung. 2022. Bestseller lists and product discovery in the subscription-based market: Evidence from music streaming. *Journal of Economic Behavior & Organization* **194**, 550-567. [[Crossref](#)]
818. Marup Hossain, Athur Mabiso, Alessandra Garbero. 2022. Matching grants and economic activities among horticultural entrepreneurs: Long-term evidence from Rwanda. *World Development* **150**, 105712. [[Crossref](#)]
819. Richard de Groot, Jennifer Yablonski, Elsa Valli. 2022. The impact of cash and health insurance on child nutrition during the first 1000 days: Evidence from Ghana. *Food Policy* **107**, 102217. [[Crossref](#)]
820. Zhiming Cheng. 2022. Communist Party branch and labour rights: Evidence from Chinese entrepreneurs. *China Economic Review* **71**, 101730. [[Crossref](#)]
821. Mudassira Sarfraz, Muhammad Kamran, Noor Ullah Khan, Muhammad Khalique, Zubaria Andlib. 2022. Targeting Women's vulnerable employment through social protection: A quasi-experimental regression discontinuity design. *Heliyon* **8**:2, e08964. [[Crossref](#)]
822. Omar Isaac Asensio, Camila Z. Apablaza, M. Cade Lawson, Sarah Elizabeth Walsh. 2022. A field experiment on workplace norms and electric vehicle charging etiquette. *Journal of Industrial Ecology* **26**:1, 183-196. [[Crossref](#)]
823. GABRIEL CHODOROW-REICH, ANTONIO FALATO. 2022. The Loan Covenant Channel: How Bank Health Transmits to the Real Economy. *The Journal of Finance* **77**:1, 85-128. [[Crossref](#)]
824. Stephanie von Hinke. 2022. Education, Dietary Intakes and Exercise\*. *Oxford Bulletin of Economics and Statistics* **84**:1, 214-240. [[Crossref](#)]
825. Xin Li, Shuhan Jiang, Tianqi Wang, Jia Hu, Yun Yuan. 2022. Evaluating the impact of partial driving restrictions on local air quality in Chongqing using regression discontinuity design. *Environment and Planning B: Urban Analytics and City Science* **49**:2, 464-484. [[Crossref](#)]
826. Kevin Grier. Causal Inference and Austrian Economics 105-114. [[Crossref](#)]
827. Paul Glewwe, Petra Todd. Regression Discontinuity Methods 233-248. [[Crossref](#)]
828. Hengrong Luo, Xiaohua Yu. 2022. National day holiday and Weight Gain in China: evidence from the CHNS surveys. *Applied Economics Letters* **29**:2, 145-149. [[Crossref](#)]
829. Sasiwooth Wongmonta. 2022. Household consumption and home production at retirement in Thailand: evidence from a regression discontinuity approach. *Journal of Demographic Economics* **88**, 1-25. [[Crossref](#)]

830. Metin Bulus. 2022. Minimum Detectable Effect Size Computations for Cluster-Level Regression Discontinuity Studies: Specifications Beyond the Linear Functional Form. *Journal of Research on Educational Effectiveness* 15:1, 151-177. [[Crossref](#)]
831. Marc Hooghe, Dieter Stiers. 2022. Political discussion begins at home. Household dynamics following the enfranchisement of adolescent children. *Applied Developmental Science* 26:1, 141-154. [[Crossref](#)]
832. Mikko Silliman, Hanna Virtanen. 2022. Labor Market Returns to Vocational Secondary Education. *American Economic Journal: Applied Economics* 14:1, 197-224. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
833. Hippolyte d'Albis, Karina Doorley, Elena Stancanelli. Older Mothers' Employment and Marriage Stability When the Nest Is Empty 247-269. [[Crossref](#)]
834. Blaise Melly, Rafael Lalive. Regression Discontinuity Design 1-32. [[Crossref](#)]
835. Shaopeng Zhong, Daniel Sun. A Regression Discontinuity-Based Approach for Evaluating the Effect of Exclusive Bus Lanes on Average Vehicle Speeds 73-96. [[Crossref](#)]
836. Yiming He. Do Agricultural Population Urbanization and Energy-Environment Policy Affect Housing Values? Evidence from China 165-195. [[Crossref](#)]
837. Ying Wang, Richard T. Woodward, Jing-Yue Liu. 2022. The Impact of Exogenous Pollution on Green Innovation. *Environmental and Resource Economics* 81:1, 1-24. [[Crossref](#)]
838. . References 695-734. [[Crossref](#)]
839. Alexander Ahammer, Stefan Bauernschuster, Martin Halla, Hannah Lachenmaier. 2022. Minimum legal drinking age and the social gradient in binge drinking. *Journal of Health Economics* 81, 102571. [[Crossref](#)]
840. Kai Lisa Lo, Yaqi Fan, Congzhi Zhang, Jinhong Jackson Mi. 2022. Factors for China's Automobile Demand Structure: Petroleum Prices or Tax Policies?. *Procedia Computer Science* 199, 1136-1143. [[Crossref](#)]
841. Amber Peterman, Elsa Valli, Tia Palermo. 2022. Government Antipoverty Programming and Intimate Partner Violence in Ghana. *Economic Development and Cultural Change* 70:2, 529-566. [[Crossref](#)]
842. Betsy Q. Cliff, Sarah Miller, Jeffrey T. Kullgren, John Z. Ayanian, Richard A. Hirth. 2022. Adverse Selection in Medicaid. *American Journal of Health Economics* 8:1, 127-150. [[Crossref](#)]
843. Yoichi Arai, Yu-Chin Hsu, Toru Kitagawa, Ismael Mourifié, Yuanyuan Wan. 2022. Testing identifying assumptions in fuzzy regression discontinuity designs. *Quantitative Economics* 13:1, 1-28. [[Crossref](#)]
844. Joshua D. Angrist. 2022. Empirical Strategies in Economics: Illuminating the Path From Cause to Effect. *Econometrica* 90:6, 2509-2539. [[Crossref](#)]
845. Giuseppe Albanese, Guglielmo Barone, Guido de Blasio. 2022. Populist voting and losers' discontent: Does redistribution matter?. *European Economic Review* 141, 104000. [[Crossref](#)]
846. Marina Di Giacomo, Massimiliano Piacenza, Luigi Siciliani, Gilberto Turati. 2022. The effect of co-payments on the take-up of prenatal tests. *Journal of Health Economics* 81, 102553. [[Crossref](#)]
847. Abdurrahman B. Aydemir, Murat Güray Kırdar, Huzeyfe Torun. 2022. The effect of education on internal migration of young men and women: incidence, timing, and type of migration. *Labour Economics* 74, 102098. [[Crossref](#)]
848. Firat Yaman, Kingsley Offiaeli. 2022. The Effect of an Unconventional Fare Decrease on the Demand for Bus Journeys. *SSRN Electronic Journal* 120. . [[Crossref](#)]

849. Filippo Belloc, Gabriel Burdin, Fabio Landini. 2022. Robots, Digitalization, and Worker Voice. *SSRN Electronic Journal* 12. . [\[Crossref\]](#)
850. John Manuel Barrios, Thomas Wollmann. 2022. A New Era of Midnight Mergers: Antitrust Risk and Investor Disclosures. *SSRN Electronic Journal* 65. . [\[Crossref\]](#)
851. Lana Krehic. 2022. Safety First? The Effect of Studded Tyres on Traffic Accidents and Local Air Pollution. *SSRN Electronic Journal* 7. . [\[Crossref\]](#)
852. Sofoklis Goulas, Silvia Griselda, Rigissa Megalokonomou. 2022. Compulsory Class Attendance Versus Autonomy. *SSRN Electronic Journal* 106. . [\[Crossref\]](#)
853. Nauman Asghar, Tomasz Obloj. 2022. Delegation of Decision Rights and Inertia in Capital Reallocation. *SSRN Electronic Journal* 14. . [\[Crossref\]](#)
854. Suresh Bhagavatula, Manaswini Bhalla, Manisha Goel, Balagopal Vissa. 2022. Diversity in Corporate Boards and Firm Outcomes. *SSRN Electronic Journal* 27. . [\[Crossref\]](#)
855. Guangyu Cao, Chang Liu, Guangrong Ma. 2022. Still Divided: The Long-Run Effects of China's Great Wall on Contemporary Ethnic Diversity and Economic Development. *SSRN Electronic Journal* 17. . [\[Crossref\]](#)
856. Carlos Martins-Filho, Sihong Xie, Feng Yao. 2022. A New Estimator of a Jump Discontinuity in Regression. *SSRN Electronic Journal* 38. . [\[Crossref\]](#)
857. Gonalo Lima, Luis Catela Nunes, Ana Balcao Reis, Maria do Carmo Seabra. 2022. No country for young kids? The effects of school starting age throughout childhood and beyond. *SSRN Electronic Journal* 18. . [\[Crossref\]](#)
858. Jeffrey Pagel. 2022. Aid Against Trees? Evidence from a Community-Driven Development Program in the Philippines. *SSRN Electronic Journal* 86. . [\[Crossref\]](#)
859. SunAh Kim, Pradeep K. Chintagunta, Jia Li. 2022. Disruption on the Streets: A Case Study on the Impact of Uber's Entry on the Taxi Business. *SSRN Electronic Journal* 110. . [\[Crossref\]](#)
860. Roberto Gomez Cram, Marcel Olbert. 2022. Measuring the Effects of the Global Tax Reform - Evidence from High-frequency Data. *SSRN Electronic Journal* 9. . [\[Crossref\]](#)
861. Selina Gangl, Martin Huber. 2022. From Homemakers to Breadwinners? How Mandatory Kindergarten Affects Maternal Labour Market Outcomes. *SSRN Electronic Journal* 15. . [\[Crossref\]](#)
862. Michael Gelman, Nikolai L. Roussanov. 2022. Managing Mental Accounts: Payment Cards and Consumption Expenditures. *SSRN Electronic Journal* 133. . [\[Crossref\]](#)
863. Alessandro Belmonte, Harry Pickard. 2022. Safe at Last? Late Effects of a Mass Immunization Campaign on Households' Economic Insecurity. *SSRN Electronic Journal* 189. . [\[Crossref\]](#)
864. Jessica Fong, Megan Hunter. 2022. Can Facing the Truth Improve Outcomes? Effects of Information in Consumer Finance. *Marketing Science* 41:1, 33-50. [\[Crossref\]](#)
865. John Manuel Barrios, Thomas Wollmann. 2022. A New Era of Midnight Mergers: Antitrust Risk and Investor Disclosures. *SSRN Electronic Journal* 65. . [\[Crossref\]](#)
866. Federico Cingano, Filippo Palomba, Paolo Pinotti, Enrico Rettore. 2022. Making Subsidies Work: Rules vs. Discretion. *SSRN Electronic Journal* 128. . [\[Crossref\]](#)
867. Caterina Pavese, Enrico Rubolino. 2022. Austerity Harmed Student Achievement. *SSRN Electronic Journal* 119. . [\[Crossref\]](#)

868. Cheng Xu, XingHe Liu, Kees Koedijk. 2022. --The Great Chinese Famine and Corporate Social Responsibility. *SSRN Electronic Journal* **104**. . [[Crossref](#)]
869. Christa Brunnschweiler, Samuel K. Obeng. 2022. Rewarding Allegiance: Political Alignment and Fiscal Outcomes in Local Government. *SSRN Electronic Journal* **52**. . [[Crossref](#)]
870. Pierre Cahuc, Pauline Carry, Franck Malherbet, Pedro S. Martins. 2022. Employment Effects of Restricting Fixed-Term Contracts: Theory and Evidence. *SSRN Electronic Journal* **79**. . [[Crossref](#)]
871. Serena Canaan, Pierre Mouganie, Peng Zhang. 2022. The Long-Run Educational Benefits of High-Achieving Classrooms. *SSRN Electronic Journal* **82**. . [[Crossref](#)]
872. Didier Nibbering, Matthijs Oosterveen, Pedro Luis Silva. 2022. Clustered Local Average Treatment Effects: Fields of Study and Academic Student Progress. *SSRN Electronic Journal* **136**. . [[Crossref](#)]
873. Federico Cingano, Filippo Palomba, Paolo Pinotti, Enrico Rettore. 2022. Making Subsidies Work: Rules vs. Discretion. *SSRN Electronic Journal* **128**. . [[Crossref](#)]
874. Naveen Kumar. 2022. Improving Public School Productivity: Evidence from Model Schools in India. *SSRN Electronic Journal* **92**. . [[Crossref](#)]
875. Jae Hwan Ahn, Sunhwa Choi, Gi Hyun Kim, Sewon Kwon. 2022. Bonus Incentives and Losses from Early Debt Extinguishment. *SSRN Electronic Journal* **13**. . [[Crossref](#)]
876. Maya Balakrishnan, MoonSoo Choi, Natalie Epstein. 2022. An Empirical Study of Time Allotment and Delays in E-Commerce Delivery. *SSRN Electronic Journal* **18**. . [[Crossref](#)]
877. Caio Piza, Gabriele Collatina, Patrick M. Emerson, Vivian Amorim. 2022. The Short- and Longer-Term Effects of a Child Labor Ban. *SSRN Electronic Journal* **88**. . [[Crossref](#)]
878. Baris Yoruk. 2022. Does Public Policy Affect Attitudes? Evidence from Age-Based Health Insurance Coverage Policies in the United States. *SSRN Electronic Journal* **124**. . [[Crossref](#)]
879. Baris Yoruk. 2022. Does Public Policy Affect Attitudes? Evidence from Age-Based Health Insurance Coverage Policies in the United States. *SSRN Electronic Journal* **124**. . [[Crossref](#)]
880. Magdalena Delaporte, Francisco Pino. 2022. Female Political Representation and Violence Against Women: Evidence from Brazil. *SSRN Electronic Journal* **100**. . [[Crossref](#)]
881. Baris Yoruk. 2022. Does Public Policy Affect Attitudes? Evidence from Age-Based Health Insurance Coverage Policies in the United States. *SSRN Electronic Journal* **124**. . [[Crossref](#)]
882. Joan Costa-i-Font, Martin Knapp, Cristina Vilaplana-Prieto. 2022. The 'Welcomed Lockdown' Hypothesis: When Do Mobility Restrictions Influence Mental Wellbeing?. *SSRN Electronic Journal* **3**. . [[Crossref](#)]
883. Melinda Fremerey, Andreas Lichter, Max Löffler. 2022. Fiscal and Economic Effects of Local Austerity. *SSRN Electronic Journal* **98**. . [[Crossref](#)]
884. Domenico Depalo. 2022. Gloomy Expectations After the Invasion of Ukraine. *SSRN Electronic Journal* **113**. . [[Crossref](#)]
885. Vikesh Amin, Jere R. Behrman, Jason M. Fletcher, Carlos A. Flores, Alfonso Flores-Lagunes, Hans-Peter Kohler. 2022. Does Schooling Improve Cognitive Abilities at Older Ages: Causal Evidence from Nonparametric Bounds. *SSRN Electronic Journal* **52**. . [[Crossref](#)]
886. Kuang Kuang Deng, Henan Lang, Xiaoxia Zhou. 2022. Extrapolation and house price overreaction: Evidence from local jurisdiction mergers. *Finance Research Letters* **44**, 102067. [[Crossref](#)]



887. Eric French, Attila Lindner, Cormac O'Dea, Tom Zawisza. 2022. Labor Supply and the Pension-Contribution Link. *SSRN Electronic Journal* 3. . [[Crossref](#)]
888. Helene Maghin. 2022. Cracks in the Boards: The Opportunity Cost of Governance Homogeneity. *SSRN Electronic Journal* 127. . [[Crossref](#)]
889. Juan F. Vargas, Miguel E. Purroy, Sergio Perilla, Felipe Coy, Mounu Prem. 2022. Do Explosions Shape Voting Behavior?. *SSRN Electronic Journal* 11. . [[Crossref](#)]
890. Dany Bahar, Bo Cowgill, Jorge Guzman. 2022. The Economic Effects of Immigration Pardons: Evidence from Venezuelan Entrepreneurs in Colombia. *SSRN Electronic Journal* 84. . [[Crossref](#)]
891. Luca Repetto, Maximiliano Sosa Andrés. 2022. Divided Government and Polarization: Regression-Discontinuity Evidence from US States. *SSRN Electronic Journal* 21. . [[Crossref](#)]
892. Emma Zang, Michael Sobel, Liying Luo. 2022. The Mobility Effects Hypothesis: Past, Present, and Future. *SSRN Electronic Journal* 133. . [[Crossref](#)]
893. Dan Black, Joonhwi Joo, Robert LaLonde, Jeffrey Andrew Smith, Evan Taylor. 2022. Simple Tests for Selection: Learning More from Instrumental Variables. *SSRN Electronic Journal* 113. . [[Crossref](#)]
894. Jan Kabatek, Ying LIANG, Kun Zheng. 2022. Are shorter cumulative temporary contracts worse stepping stones? Evidence from a quasi-natural experiment. *SSRN Electronic Journal* 52. . [[Crossref](#)]
895. Aurea Ponte Marques, Giuseppe Cappelletti, Carmelo Salleo, Diego Vila Martín. 2022. Macropprudential Policy Spillovers in International Banking Groups. Beggar-Thy-Neighbour and the Role of Internal Capital Markets. *SSRN Electronic Journal* 29. . [[Crossref](#)]
896. Joseph E. Aldy. 2022. Learning How to Build Back Better through Clean Energy Policy Evaluation. *SSRN Electronic Journal* 75114. . [[Crossref](#)]
897. Magnus Schauf, Eline Schoonjans. 2022. Better Safe than Sorry: Toxic Waste Management after Unionization. *SSRN Electronic Journal* 76. . [[Crossref](#)]
898. Serena Canaan, Pierre Mouganie, Peng Zhang. 2022. The Long-Run Educational Benefits of High-Achieving Classrooms. *SSRN Electronic Journal* 30. . [[Crossref](#)]
899. Alessandro Sovera. 2022. Domestic Violence in Malawi: Does Education Empower Women?. *SSRN Electronic Journal* 15. . [[Crossref](#)]
900. BYEUNG-KUK OH. 2022. Retirement and Healthcare Utilization: Evidence from Pension Eligibility Ages in South Korea. *SSRN Electronic Journal* 4. . [[Crossref](#)]
901. Guangyu Cao, Xi Weng, Mingwei Xu, Li-An Zhou. 2022. Minimum Performance Target as a Response to Multitasking Problems: Theory and Evidence from China's Air Quality Controls. *SSRN Electronic Journal* 223. . [[Crossref](#)]
902. Mette Foged, Linea Hasager, Giovanni Peri, Jacob Nielsen Arendt, Iben Bolvig. 2022. Intergenerational Spillover Effects of Language Training for Refugees. *SSRN Electronic Journal* 111. . [[Crossref](#)]
903. Harrison G. Hong, Edward P. Shore. 2022. Corporate Social Responsibility. *SSRN Electronic Journal* 65. . [[Crossref](#)]
904. Karan Makkar. 2022. Defector Politicians and Economic Growth: Evidence from India. *SSRN Electronic Journal* 9. . [[Crossref](#)]
905. Jonathan Meer, Joshua Witter. 2022. Effects of the Earned Income Tax Credit for Childless Adults: A Regression Discontinuity Approach. *SSRN Electronic Journal* 22. . [[Crossref](#)]

906. Benjamin Hyman, Matthew Freedman, Shantanu Khanna, David Neumark. 2022. Firm Responses to State Hiring Subsidies: Regression Discontinuity Evidence from a Tax Credit Formula. *SSRN Electronic Journal* 37. . [[Crossref](#)]
907. John (Jianqiu) Bai, Ting Chen, Xiumin Martin, Chi Wan. 2022. Investor Base Disclosure and Entrepreneurial Success: Evidence from Crowdfunding. *SSRN Electronic Journal* 14. . [[Crossref](#)]
908. David M. Brasington. 2022. Local economic growth and local government investment in parks and recreation, or five cheese pizzas for \$2.6 million. *Journal of Regional Science* 62:1, 81-95. [[Crossref](#)]
909. Duha T. Altindag, Bahadır Dursun, Elif S. Filiz. 2022. The effect of education on unemployment duration. *Economic Inquiry* 60:1, 21-42. [[Crossref](#)]
910. Konstantinos Matakos, Dimitrios Minos, Ari Perdana, Elizabeth Radin. 2022. "Dragon boating" alone? Community ties and systemic income shocks. *Journal of International Development* 34:1, 55-81. [[Crossref](#)]
911. Jyothsna Harithsa. 2022. Disconnecting Financial Misconduct: Social Connectedness and Misconduct in Financial Advising. *SSRN Electronic Journal* . [[Crossref](#)]
912. Ruiqi Rich Zhu, Cheng He, Yu Jeffrey Hu. 2022. The Dark Side of Algorithms? The Effect of Recommender Systems on Online Investor Behaviors. *SSRN Electronic Journal* 24. . [[Crossref](#)]
913. Luca Favero, Iaria Malisan. 2022. With Honors. University Honors Programs and Graduates' Careers. *SSRN Electronic Journal* 26. . [[Crossref](#)]
914. Jose L. Casco. 2022. Intra-Household Resource Shares Under Poverty Transfers: Evidence from Ecuador. *SSRN Electronic Journal* 5. . [[Crossref](#)]
915. Enhui Chen, Yang Liu, Zhirui Ye, Marco Nie. 2022. The Sustainability Appeal of Urban Rail Transit. *SSRN Electronic Journal* 77. . [[Crossref](#)]
916. Sheng Huang, Anjan V. Thakor. 2022. Political Influence, Bank Capital, and Credit Allocation. *SSRN Electronic Journal* 73. . [[Crossref](#)]
917. Douglas Noonan, Lilliard Richardson, Pin Sun. 2022. Flood Zoning Policies and Residential Housing Characteristics in Texas. *SSRN Electronic Journal* 47. . [[Crossref](#)]
918. Tapio Räsänen, Anneli Miettinen, Miia Saarikallio-Torp. 2022. Father's Quota and Maternal Mental Health. *SSRN Electronic Journal* 80. . [[Crossref](#)]
919. Adam Altmejd, Thomas Jansson, Yigitcan Karabulut. 2022. Business Education and Portfolio Returns. *SSRN Electronic Journal* 126. . [[Crossref](#)]
920. Darren P. Grant. 2022. The Effect of 'Them That's Got Shall Have' Laws on General Election Outcomes. *SSRN Electronic Journal* 5. . [[Crossref](#)]
921. Raphael Duguay. 2022. The Effect of Financial Audits on Governance Practices: Evidence from the Nonprofit Sector. *SSRN Electronic Journal* 2. . [[Crossref](#)]
922. Wei Cai, Aiysha Dey, Jillian Grennan, Joseph Pacelli, Lin Qiu. 2022. Do Diverse Directors Influence DEI Outcomes?. *SSRN Electronic Journal* 62. . [[Crossref](#)]
923. Yan Alperovych, Anantha Divakaruni, François Le Grand. 2022. Fintech Lending Under Austerity. *SSRN Electronic Journal* 30. . [[Crossref](#)]
924. Justin Chircop, Shaohua He, Jiancheng (Duncan) Liu. 2022. Country-by-country reporting and audit fees. *SSRN Electronic Journal* 77. . [[Crossref](#)]

925. Xunyi Wang, Meiling Jiang, Wencui Han, Liangfei Qiu. 2022. Do Emotions Sell? The Impact of Emotional Expressions on Sales in the Space-Sharing Economy. *Production and Operations Management* 31:1, 65-82. [[Crossref](#)]
926. Chang Liu, Li-An Zhou. 2021. Radical Target Setting and China's Great Famine. *The Journal of Law, Economics, and Organization* 38:1, 120-160. [[Crossref](#)]
927. Xiaohan Xiong, Rui Li, Hualei Yang. 2021. How the Spouse's Retirement Affects the Cognitive Health of Individuals in China: A Fresh Evidence From the Perspective of Social Interaction. *Frontiers in Public Health* 9. . [[Crossref](#)]
928. Thomas Bue Bjørner, Jacob Victor Hansen, Astrid Fanger Jakobsen. 2021. Price cap regulation and water quality. *Journal of Regulatory Economics* 60:2-3, 95-116. [[Crossref](#)]
929. Jim Been, Susann Rohwedder, Michael Hurd. 2021. Households' joint consumption spending and home production responses to retirement in the US. *Review of Economics of the Household* 19:4, 959-985. [[Crossref](#)]
930. Ján Palguta, Filip Pertold. 2021. Political salaries, electoral selection and the incumbency advantage: Evidence from a wage reform. *Journal of Comparative Economics* 49:4, 1020-1047. [[Crossref](#)]
931. Tom Ahn, Jacob L. Vigdor. 2021. When Incentives Matter Too Much: Explaining Significant Responses to Irrelevant Information. *Journal of Human Capital* 15:4, 629-664. [[Crossref](#)]
932. Liang Ma, Daniel J Graham, Marc E J Stettler. 2021. Has the ultra low emission zone in London improved air quality?. *Environmental Research Letters* 16:12, 124001. [[Crossref](#)]
933. Siyuan Deng. Does Green Credit Policy Promote technological Innovation Capability?—Based on the Evidence of Regression Discontinuity Design 375-378. [[Crossref](#)]
934. Karen Mulligan, John A. Romley, Rebecca Myerson. 2021. Access to the 340B Drug Pricing Program: is there evidence of strategic hospital behavior?. *BMC Research Notes* 14:1. . [[Crossref](#)]
935. Xiaowei Kong, Deng-Kui Si, Haiyang Li, Dongmin Kong. 2021. Does access to credit reduce SMEs' tax avoidance? Evidence from a regression discontinuity design. *Financial Innovation* 7:1. . [[Crossref](#)]
936. Pedro S. Martins. 2021. Should the maximum duration of fixed-term contracts increase in recessions? Evidence from a law reform. *International Review of Law and Economics* 68, 106009. [[Crossref](#)]
937. Agne Suziedelyte, Anna Zhu. 2021. The intergenerational impact of reduced generosity in the social safety net. *Journal of Economic Behavior & Organization* 192, 1-24. [[Crossref](#)]
938. Sophia Chen, Lev Ratnovski, Pi-Han Tsai. 2021. Credit and fiscal multipliers in China: Evidence from a political economy based estimation. *Journal of International Money and Finance* 119, 102481. [[Crossref](#)]
939. Wenchi Wei. 2021. State fiscal constraint and local overrides: a regression discontinuity design estimation of the fiscal effects. *Public Choice* 189:3-4, 347-373. [[Crossref](#)]
940. Gary Cornwall, Beau Sauley. 2021. Indirect effects and causal inference: reconsidering regression discontinuity. *Journal of Spatial Econometrics* 2:1. . [[Crossref](#)]
941. Tong-yob Nam, Seungjoon Oh. 2021. Non-recourse mortgage law and housing speculation. *Journal of Banking & Finance* 133, 106292. [[Crossref](#)]
942. Firmin Doko Tchatoka, Vanessa Varvaris. 2021. Neighbourhood, school zoning and the housing market: Evidence from New South Wales. *Journal of Housing Economics* 54, 101790. [[Crossref](#)]

943. Mario Fiorini, Katrien Stevens. 2021. Scrutinizing the Monotonicity Assumption in IV and fuzzy RD designs\*. *Oxford Bulletin of Economics and Statistics* **83**:6, 1475-1526. [[Crossref](#)]
944. Yan Fang, Lijun Zhu, Yiyi Jiang, Bihu Wu. 2021. The immediate and subsequent effects of public health interventions for COVID-19 on the leisure and recreation industry. *Tourism Management* **87**, 104393. [[Crossref](#)]
945. Ricardo A. Pasquini. 2021. Effects of regulating the brokerage commission in the rental market: Evidence from Buenos Aires. *Journal of Housing Economics* **54**, 101793. [[Crossref](#)]
946. Albert Whata, Charles Chimedza. 2021. Credibility of Causal Estimates from Regression Discontinuity Designs with Multiple Assignment Variables. *Stats* **4**:4, 893-915. [[Crossref](#)]
947. Kaire Põder, Triin Lauri. 2021. The Paradox of State-Funded Higher Education: Does the Winner Still Take It All?. *Education Sciences* **11**:12, 812. [[Crossref](#)]
948. Scott W. Desposato, Gang Wang, Jason Y. Wu. 2021. The Long-Term Impact of Mobilization and Repression on Political Trust. *Comparative Political Studies* **54**:14, 2447-2474. [[Crossref](#)]
949. Vicente Valentim. 2021. Parliamentary Representation and the Normalization of Radical Right Support. *Comparative Political Studies* **54**:14, 2475-2511. [[Crossref](#)]
950. Insu Chang, Heeran Park, Hosung Sohn. 2021. Causal Impact of School Starting Age on the Tempo of Childbirths: Evidence from Working Mothers and School Entry Cutoff Using Exact Date of Birth. *European Journal of Population* **37**:4-5, 997-1022. [[Crossref](#)]
951. Michael Wicki. 2021. How do familiarity and fatal accidents affect acceptance of self-driving vehicles?. *Transportation Research Part F: Traffic Psychology and Behaviour* **83**, 401-423. [[Crossref](#)]
952. Anyu Liu, Yoo Ri Kim, John Frankie O'Connell. 2021. COVID-19 and the aviation industry: The interrelationship between the spread of the COVID-19 pandemic and the frequency of flights on the EU market. *Annals of Tourism Research* **91**, 103298. [[Crossref](#)]
953. Wan-Jin Cai, Hong-Wei Wang, Cui-Lin Wu, Kai-Fa Lu, Zhong-Ren Peng, Hong-Di He. 2021. Characterizing the interruption-recovery patterns of urban air pollution under the COVID-19 lockdown in China. *Building and Environment* **205**, 108231. [[Crossref](#)]
954. Qin Zhou, Karen Eggleston, Gordon G. Liu. 2021. Healthcare utilization at retirement in China. *Health Economics* **30**:11, 2618-2636. [[Crossref](#)]
955. Andrei Barbos, Minglu Sun. 2021. The effect of awarding disability benefits on opioid consumption. *Health Economics* **30**:11, 2794-2807. [[Crossref](#)]
956. Konstantinos Metaxoglou. 2021. Canadian Journal of Economics: A historic overview. *Canadian Journal of Economics/Revue canadienne d'économie* **54**:3, 1418-1453. [[Crossref](#)]
957. Jiehong Lou, Yueming (Lucy) Qiu, Arthur Lin Ku, Destenie Nock, Bo Xing. 2021. Inequitable and heterogeneous impacts on electricity consumption from COVID-19 mitigation measures. *iScience* **24**:11, 103231. [[Crossref](#)]
958. Ge Gao, Xiuting Li, Xiaoting Liu, Jichang Dong. 2021. Does Air Pollution Impact Fiscal Sustainability? Evidence from Chinese Cities. *Energies* **14**:21, 7247. [[Crossref](#)]
959. Kwadwo Opoku, Emmanuel Adu Boahen. 2021. Effects of school attendance on child labour and literacy: regression discontinuity evidence from Ghana. *International Journal of Social Economics* **48**:11, 1567-1588. [[Crossref](#)]

960. Alessandro Borin, Elisa Macchi, Michele Mancini. 2021. EU transfers and euroscepticism: can't buy me love?. *Economic Policy* 36:106, 237-286. [[Crossref](#)]
961. H. I. Penikas. 2021. Premium for implicit deposit insurance within Russian state banks. *Voprosy Ekonomiki* :10, 89-112. [[Crossref](#)]
962. Christopher Osiander. 2021. Lessons from mixed-method evaluations—An example from labor market research. *Research Evaluation* 30:1, 90-101. [[Crossref](#)]
963. Giorgio Gulino. 2021. Electoral Systems, Selection, and Re-election: Evidence from Italian Municipalities. *The Journal of Law, Economics, and Organization* 37:3, 534-570. [[Crossref](#)]
964. Anne Sofie Tegner Anker, Jennifer L. Doleac, Rasmus Landersø. 2021. The Effects of DNA Databases on the Deterrence and Detection of Offenders. *American Economic Journal: Applied Economics* 13:4, 194-225. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
965. Catherine P. Bradshaw, Elise T. Pas, Rashelle J. Musci, Joseph M. Kush, Ji Hoon Ryoo. 2021. Can Policy Promote Adoption or Outcomes of Evidence-based Prevention Programming?: a Case Illustration of Positive Behavioral Interventions and Supports. *Prevention Science* 22:7, 986-1000. [[Crossref](#)]
966. Fanlin Meng, Wenping Wang. 2021. Heterogeneous effect of “Belt and Road” on the two-stage eco-efficiency in China's provinces. *Ecological Indicators* 129, 107920. [[Crossref](#)]
967. Philipp Gild, Raisa S. Pompe, Thomas Seisen, Jacob Keeley, Hoang J. Tang, Alberto Bossi, Derya Tilki, Mani Menon, Firas Abdollah. 2021. Regression Discontinuity Analysis of Salvage Radiotherapy in Prostate Cancer. *European Urology Oncology* 4:5, 817-820. [[Crossref](#)]
968. Yolanda Rebollo-Sanz, Jesús Rodríguez-López, Núria Rodríguez-Planas. 2021. Penalty-point system, deterrence and road safety: A quasi-experimental analysis. *Journal of Economic Behavior & Organization* 190, 408-433. [[Crossref](#)]
969. Chau Man Fung, David Philip McArthur, Jinhyun Hong. 2021. Examining the effects of a temporary subway closure on cycling in Glasgow using bike-sharing data. *Travel Behaviour and Society* 25, 62-77. [[Crossref](#)]
970. Dieter Stiers, Marc Hooghe, Ruth Dassonneville. 2021. Voting at 16: Does lowering the voting age lead to more political engagement? Evidence from a quasi-experiment in the city of Ghent (Belgium). *Political Science Research and Methods* 9:4, 849-856. [[Crossref](#)]
971. Livia Isabella Schubiger. 2021. State Violence and Wartime Civilian Agency: Evidence from Peru. *The Journal of Politics* 83:4, 1383-1398. [[Crossref](#)]
972. Brigham R. Frandsen. 2021. The Surprising Impacts of Unionization: Evidence from Matched Employer-Employee Data. *Journal of Labor Economics* 39:4, 861-894. [[Crossref](#)]
973. Taylor C. Boas, F. Daniel Hidalgo, Guillermo Toral. 2021. Competence versus Priorities: Negative Electoral Responses to Education Quality in Brazil. *The Journal of Politics* 83:4, 1417-1431. [[Crossref](#)]
974. Marion Krämer, Santosh Kumar, Sebastian Vollmer. 2021. Anemia, diet, and cognitive development: Impact of health information on diet quality and child nutrition in rural India. *Journal of Economic Behavior & Organization* 190, 495-523. [[Crossref](#)]
975. Gianmarco Daniele, Alessio Romarri, Paul Vertier. 2021. Dynasties and policymaking. *Journal of Economic Behavior & Organization* 190, 89-110. [[Crossref](#)]

976. Jianqing Ruan, Qingwen Cai, Songqing Jin. 2021. Impact of COVID-19 and Nationwide Lockdowns on Vegetable Prices: Evidence from Wholesale Markets in China. *American Journal of Agricultural Economics* **103**:5, 1574-1594. [[Crossref](#)]
977. Michela Ponzo, Vincenzo Scoppa. 2021. Does demand for health services depend on cost-sharing? Evidence from Italy. *Economic Modelling* **103**, 105599. [[Crossref](#)]
978. Jingjing Liu, Jing Wang, Tianlin Zhai, Zehui Li, Longyang Huang, Shaohua Yuan. 2021. Gradient characteristics of China's land use patterns and identification of the east-west natural-socio-economic transitional zone for national spatial planning. *Land Use Policy* **109**, 105671. [[Crossref](#)]
979. Jianming Cai, Jing Lin, Zhenshan Yang, Xinfu Zhou, Zhe Cheng. 2021. Retro or Renewal: An Assessment of PPP Management and Policy in China Since 2014. *Public Works Management & Policy* **26**:4, 359-380. [[Crossref](#)]
980. Ren Wang, Jiaqi Huang, Lizhi Zhang, Yu Xia, Xu Xu, Tongli Nong. 2021. Assessments of Air Pollution Control Effectiveness Based on a Sharp Regression Discontinuity Design —Evidence From China's Environmental Big Data. *Frontiers in Environmental Science* **9**. . [[Crossref](#)]
981. Pankaj C. Patel, Marcus T. Wolfe, Andrew S Manikas. 2021. Talk is cheap?! The value of a ban on product simulations and renderings on a crowdfunding platform. *Applied Economics* **53**:44, 5068-5089. [[Crossref](#)]
982. Sade Bonilla, Thomas S. Dee, Emily K. Penner. 2021. Ethnic studies increases longer-run academic engagement and attainment. *Proceedings of the National Academy of Sciences* **118**:37. . [[Crossref](#)]
983. Brice Fabre. 2021. Cumul des mandats et subventions allouées aux communes. *Revue économique* **Vol. 72**:5, 799-842. [[Crossref](#)]
984. Il Hwan Chung, Daniel Williams. 2021. Local governments' responses to the fiscal stress label: the case of New York. *Local Government Studies* **47**:5, 808-835. [[Crossref](#)]
985. Jacob Wallace, Karen Jiang, Paul Goldsmith-Pinkham, Zirui Song. 2021. Changes in Racial and Ethnic Disparities in Access to Care and Health Among US Adults at Age 65 Years. *JAMA Internal Medicine* **181**:9, 1207. [[Crossref](#)]
986. Nicolas Gavoille. 2021. Pay for politicians and campaign spending: evidence from the French municipal elections. *Public Choice* **188**:3-4, 455-477. [[Crossref](#)]
987. Miguel Ángel Borrella-Mas, Martin Rode. 2021. Love is blind: partisan alignment and political corruption in Spain. *SERIEs* **12**:3, 423-451. [[Crossref](#)]
988. Min Wang, Xiumei Yu. 2021. Impact of tiered pricing reform on China's residential electricity use. *China Economic Quarterly International* **1**:3, 177-190. [[Crossref](#)]
989. Jing Jin, Yucheng Wang, Xinye Zheng. 2021. District heating versus self-heating: Estimation of energy efficiency gap using regression discontinuity design. *China Economic Quarterly International* **1**:3, 208-220. [[Crossref](#)]
990. Pedro S. Martins. 2021. Working to get fired? Unemployment benefits and employment duration. *Journal of Policy Modeling* **43**:5, 1016-1030. [[Crossref](#)]
991. Zhichao He, Chunhong Zhao, Christine Fürst, Anna M. Hersperger. 2021. Closer to causality: How effective is spatial planning in governing built-up land expansion in Fujian Province, China?. *Land Use Policy* **108**, 105562. [[Crossref](#)]
992. M.B. Weissman. 2021. Policy recommendations from causal inference in physics education research. *Physical Review Physics Education Research* **17**:2. . [[Crossref](#)]



993. Shiferaw Gurmu, David L. Sjoquist, Laura Wheeler. 2021. The effectiveness of job creation tax credits. *Regional Science and Urban Economics* **90**, 103721. [[Crossref](#)]
994. Marcelo Castro, Enlison Mattos, Fernanda Patriota. 2021. The effects of health spending on the propagation of infectious diseases. *Health Economics* **30**:10, 2323-2344. [[Crossref](#)]
995. Luis Aguiar, Joel Waldfogel. 2021. Platforms, Power, and Promotion: Evidence from Spotify Playlists\*. *The Journal of Industrial Economics* **69**:3, 653-691. [[Crossref](#)]
996. Tomás Rau, Miguel Sarzosa, Sergio Urzúa. 2021. The children of the missed pill. *Journal of Health Economics* **79**, 102496. [[Crossref](#)]
997. Xue Jin, Ussif Rashid Sumaila, Kedong Yin, Zhichao Qi. 2021. Evaluation of the Policy Effect of China's Environmental Interview System for Effective Air Quality Governance. *International Journal of Environmental Research and Public Health* **18**:17, 9006. [[Crossref](#)]
998. Pyung Kun Chu. 2021. Corporate Social Responsibility Proposals and Firm Valuation. *International Journal of Financial Studies* **9**:3, 45. [[Crossref](#)]
999. Kejia Hu, Sunil Chopra, Yuche Chen. 2021. The Effect of Tightening Standards on Automakers' Non-compliance. *Production and Operations Management* **30**:9, 3094-3115. [[Crossref](#)]
1000. William Timothy Miller. Regression Discontinuity in Criminal Justice Research 867-872. [[Crossref](#)]
1001. Itay Saporta-Eksten, Ity Shurtz, Sarit Weisburd. 2021. Social Security, Labor Supply, and Health of Older Workers: Quasi-Experimental Evidence from a Large Reform. *Journal of the European Economic Association* **19**:4, 2168-2208. [[Crossref](#)]
1002. Berk Özler, Çiğdem Çelik, Scott Cunningham, P. Facundo Cuevas, Luca Parisotto. 2021. Children on the move: Progressive redistribution of humanitarian cash transfers among refugees. *Journal of Development Economics* **74**, 102733. [[Crossref](#)]
1003. H. Spencer Banzhaf. 2021. Difference-in-Differences Hedonics. *Journal of Political Economy* **129**:8, 2385-2414. [[Crossref](#)]
1004. Relika Stoppel. 2021. Alcohol Availability and Alcohol-Attributable Mortality: Economic Implications following a Change in Sales Policy. *CESifo Economic Studies* **37**. . [[Crossref](#)]
1005. Yu Wang, Yihang Zhao. 2021. Is collaborative governance effective for air pollution prevention? A case study on the Yangtze river delta region of China. *Journal of Environmental Management* **292**, 112709. [[Crossref](#)]
1006. Jeong-Bon Kim, Eliza Xia Zhang, Kai Zhong. 2021. Does unionization affect the manager-shareholder conflict? Evidence from firm-specific stock price crash risk. *Journal of Corporate Finance* **69**, 101991. [[Crossref](#)]
1007. Jeffrey Ng, Hong Wu, Weihuan Zhai, Jing Zhao. 2021. The effect of shareholder activism on earnings management: Evidence from shareholder proposals. *Journal of Corporate Finance* **69**, 102014. [[Crossref](#)]
1008. Kebin Deng, Wenxia Ge, Jing He. 2021. Inside debt and shadow banking. *Journal of Corporate Finance* **69**, 102038. [[Crossref](#)]
1009. ## ## (Keita Shibahashi), ## ## (Takumi Shinotsuka), ## ## (Kazuhiro Sugiyama), ## ## (Yuichi Hamabe). 2021. #####3#####/#####  
#####(Impact of a revised prehospital care protocol that restricts prehospital defibrillation attempts and omits adrenaline administration on the prehospital care and the outcomes of patients experiencing out-of-hospital cardiac arrest with initial shockable cardiac rhythm: an interrupted time-

- series analysis). *Nihon Kyukyu Igakukai Zasshi: Journal of Japanese Association for Acute Medicine* **32**:8, 399-407. [[Crossref](#)]
1010. Benjamin Mako Hill, Aaron Shaw. 2021. The Hidden Costs of Requiring Accounts: Quasi-Experimental Evidence From Peer Production. *Communication Research* **48**:6, 771-795. [[Crossref](#)]
  1011. Zengwen Wang, Yaofeng Chen, Yucheng Chen. 2021. The effect of retirement on the health of elderly people: evidence from China. *Ageing and Society* **9**, 1-26. [[Crossref](#)]
  1012. Chiara L Comolli, Daniele Vignoli. 2021. Spreading Uncertainty, Shrinking Birth Rates: A Natural Experiment for Italy. *European Sociological Review* **37**:4, 555-570. [[Crossref](#)]
  1013. Yanqiong Liu, Liang Yu, Cunyi Yang, Zhenghui Li. 2021. Heterogeneity of the Impact of Geopolitical Events on Energy Trade: An Empirical Study Based on Regression Discontinuity Design. *Frontiers in Environmental Science* **9**. . [[Crossref](#)]
  1014. Lu Han, Chandler Lutz, Benjamin Sand, Derek Stacey. 2021. The Effects of a Targeted Financial Constraint on the Housing Market. *The Review of Financial Studies* **34**:8, 3742-3788. [[Crossref](#)]
  1015. Eleftherios Giovanis, Sacit Hadi Akdede, Ozgur Ozdamar. 2021. Impact of the EU Blue Card programme on cultural participation and subjective well-being of migrants in Germany. *PLOS ONE* **16**:7, e0253952. [[Crossref](#)]
  1016. Otávio Bartalotti, Quentin Brummet, Steven Dieterle. 2021. A Correction for Regression Discontinuity Designs With Group-Specific Mismeasurement of the Running Variable. *Journal of Business & Economic Statistics* **39**:3, 833-848. [[Crossref](#)]
  1017. Michael Wessel, Rob Gleasure, Robert J. Kauffman. 2021. Sustainability of Rewards-Based Crowdfunding: A Quasi-Experimental Analysis of Funding Targets and Backer Satisfaction. *Journal of Management Information Systems* **38**:3, 612-646. [[Crossref](#)]
  1018. Angela Johnson, Megan Kuhfeld. 2021. Impacts of School Entry Age on Academic Growth through 2nd Grade: A Multi-State Regression Discontinuity Analysis. *Journal of Research on Educational Effectiveness* **14**:3, 543-569. [[Crossref](#)]
  1019. Patrick A Testa. 2021. The Economic Legacy of Expulsion: Lessons from Post-War Czechoslovakia. *The Economic Journal* **131**:637, 2233-2271. [[Crossref](#)]
  1020. Thomas Hofmarcher. 2021. The effect of paid vacation on health: evidence from Sweden. *Journal of Population Economics* **34**:3, 929-967. [[Crossref](#)]
  1021. Qiang Liu, Shengxia Xu, Xiaoli Lu. 2021. Association between air pollution and COVID-19 infection: evidence from data at national and municipal levels. *Environmental Science and Pollution Research* **28**:28, 37231-37243. [[Crossref](#)]
  1022. Martin Pereyra, Diego Aboal, Flavia Rovira. 2021. How effective are training and mentorship programs for entrepreneurs at promoting entrepreneurial activity? An impact evaluation. *SN Business & Economics* **1**:7. . [[Crossref](#)]
  1023. Rabia Malik. 2021. (A)Political Constituency Development Funds: Evidence from Pakistan. *British Journal of Political Science* **51**:3, 963-980. [[Crossref](#)]
  1024. Vicente Valentim, Ana Ruipérez Núñez, Elias Dinas. 2021. Regression discontinuity designs: a hands-on guide for practice. *Italian Political Science Review/Rivista Italiana di Scienza Politica* **51**:2, 250-268. [[Crossref](#)]
  1025. Sebastian Barfort, Robert Klemmensen, Erik Gahner Larsen. 2021. Longevity returns to political office. *Political Science Research and Methods* **9**:3, 658-664. [[Crossref](#)]

1026. Michael Hillebrecht, Stefan Klöner, Rainer Sauerborn, Alie Sié, Aurélia Souares. 2021. The Demand for Health Insurance in a Poor Economy: Evidence from Burkina Faso. *Economic Development and Cultural Change* **69**:4, 1273-1300. [[Crossref](#)]
1027. Seth H. Giertz, Rasoul Ramezani, Kurt J. Beron. 2021. Property tax capitalization, a case study of Dallas County. *Regional Science and Urban Economics* **89**, 103680. [[Crossref](#)]
1028. Eduardo Fé. 2021. Pension Eligibility Rules and the Local Causal Effect of Retirement on Cognitive Functioning. *Journal of the Royal Statistical Society Series A: Statistics in Society* **184**:3, 812-841. [[Crossref](#)]
1029. Daniel Gray, Harry Pickard, Luke Munford. 2021. Election Outcomes and Individual Subjective Wellbeing in Great Britain. *Economica* **88**:351, 809-837. [[Crossref](#)]
1030. Caroline Flammer, Ioannis Ioannou. 2021. Strategic management during the financial crisis: How firms adjust their strategic investments in response to credit market disruptions. *Strategic Management Journal* **42**:7, 1275-1298. [[Crossref](#)]
1031. Kota Sugimoto. 2021. Ownership versus legal unbundling of electricity transmission network: Evidence from renewable energy investment in Germany. *Energy Economics* **99**, 105290. [[Crossref](#)]
1032. Hans R.A. Koster, Jos van Ommeren, Nicolas Volkhausen. 2021. Short-term rentals and the housing market: Quasi-experimental evidence from Airbnb in Los Angeles. *Journal of Urban Economics* **124**, 103356. [[Crossref](#)]
1033. Maria Knoth Humlum, Niels Skipper, Peter Rønø Thingholm. 2021. Vaccine Hesitancy and Differential Susceptibility to Media Coverage: A Critical Documentary Led to Substantial Reductions in Human Papillomavirus Vaccine Uptake in Denmark. *Medical Decision Making* **41**:5, 550-558. [[Crossref](#)]
1034. Jonas WB Lang, J Malte Runge, Filip De Fruyt. 2021. What are agile, flexible, or adaptable employees and students? A typology of dynamic individual differences in applied settings. *European Journal of Personality* **35**:4, 510-533. [[Crossref](#)]
1035. Xuan Tian, Wenyu Wang. 2021. Hard Marriage with Heavy Burdens: Organized Labor as Takeover Deterrents. *The Review of Corporate Finance Studies* **10**:2, 306-346. [[Crossref](#)]
1036. Tianheng Wang. 2021. The effect of female education on child mortality: evidence from Indonesia. *Applied Economics* **53**:27, 3207-3222. [[Crossref](#)]
1037. Angelo Cozzubo, Elard Amaya, Juan Cueto. 2021. The social costs of crime: the erosion of trust between citizens and public institutions. *Economics of Governance* **22**:2, 93-117. [[Crossref](#)]
1038. Gozde Corekcioglu. 2021. Unveiling the effects of a headscarf ban: Evidence from municipal jobs in Turkey. *Journal of Comparative Economics* **49**:2, 382-404. [[Crossref](#)]
1039. Tehmeena Iqbal, Shujaat Farooq, Ihtsham Ul Haq Padda. 2021. Can Empowerment be Enhanced by Putting Cash in the Hands of Poor Women? Learning from Pakistan's BISP Program. *The European Journal of Development Research* **33**:3, 760-792. [[Crossref](#)]
1040. Angela S. Bergantino, Mario Intini, Marco Percoco. 2021. New car taxation and its unintended environmental consequences. *Transportation Research Part A: Policy and Practice* **148**, 36-48. [[Crossref](#)]
1041. Dongmin Kong, Yawen Cheng, Shasha Liu. 2021. Unexpected housing wealth appreciation and stock market participation. *Journal of Housing Economics* **52**, 101768. [[Crossref](#)]

1042. Tao Chen. 2021. Informed trading and earnings announcement driven disagreement in global markets. *Journal of International Accounting, Auditing and Taxation* **43**, 100379. [[Crossref](#)]
1043. Tabea Herrmann, Attakrit Leckcivilize, Juliane Zenker. 2021. The impact of cash transfers on child outcomes in rural Thailand: Evidence from a social pension reform. *The Journal of the Economics of Ageing* **19**, 100311. [[Crossref](#)]
1044. Bernard Black, Woonchan Kim, Julia Nasev. 2021. The Effect of Board Structure on Firm Disclosure and Behavior: A Case Study of Korea and a Comparison of Research Designs. *Journal of Empirical Legal Studies* **18**:2, 328-376. [[Crossref](#)]
1045. Zhongwen Fan, Suresh Radhakrishnan, Yuan Zhang. 2021. Corporate Governance and Earnings Management: Evidence from Shareholder Proposals\*. *Contemporary Accounting Research* **38**:2, 1434-1464. [[Crossref](#)]
1046. Oznur Ozdamar, Eleftherios Giovanis, Cansu Dağlıoğlu, Cemaleddin Gerede. 2021. The effect of the 2008 employment support programme on young men's labour market outcomes in Turkey: Evidence from a regression discontinuity design. *The Manchester School* **89**:3, 276-296. [[Crossref](#)]
1047. Fernando Antonio Ignacio González, Juan Antonio Dip, Silvia London. 2021. Long-lasting effects of pandemics: The case of the 1918 influenza pandemic in Argentina. *Spatial and Spatio-temporal Epidemiology* **37**, 100409. [[Crossref](#)]
1048. Trine Filges, Jens Dietrichson, Bjørn C. A. Viinholt, Nina T. Dalgaard. 2021. PROTOCOL: Service learning for improving academic success in students in grade K to 12: a systematic review. *Campbell Systematic Reviews* **17**:2. . [[Crossref](#)]
1049. Beata Bieszk-Stolorz, Krzysztof Dmytrów. 2021. Impact of Changes to Procedures on the Evaluation of the Effectiveness of Forms of Professional Activation in Poland. *Economies* **9**:2, 88. [[Crossref](#)]
1050. Barry Reilly, Robert Witt. 2021. The Effect of League Design on Spectator Attendance: A Regression Discontinuity Design Approach. *Journal of Sports Economics* **22**:5, 514-545. [[Crossref](#)]
1051. Marcela Reyes, NaYoung Hwang. 2021. Middle School Language Classification Effects on High School Achievement and Behavioral Outcomes. *Educational Policy* **35**:4, 590-620. [[Crossref](#)]
1052. Michael Oberfichtner, Harald Tauchmann. 2021. Stacked linear regression analysis to facilitate testing of hypotheses across OLS regressions. *The Stata Journal: Promoting communications on statistics and Stata* **21**:2, 411-429. [[Crossref](#)]
1053. Andrew Hanson, Shawn Rohlin. 2021. A toolkit for evaluating spatially targeted urban redevelopment incentives: Methods, lessons, and best practices. *Journal of Urban Affairs* **43**:5, 618-639. [[Crossref](#)]
1054. Ricard Grèbol Jiménez, Judit Vall Castelló. 2021. The impact of temporary contracts on suicide rates. *PLOS ONE* **16**:5, e0252077. [[Crossref](#)]
1055. Clément de Chaisemartin, Luc de Chaisemartin. 2021. Bacille Calmette-Guérin Vaccination in Infancy Does Not Protect Against Coronavirus Disease 2019 (COVID-19): Evidence From a Natural Experiment in Sweden. *Clinical Infectious Diseases* **72**:10, e501-e505. [[Crossref](#)]
1056. Miriam Artilles, Lukas Kleine-Rueschkamp, Gianmarco León-Ciliotta. 2021. Accountability, Political Capture, and Selection Into Politics: Evidence from Peruvian Municipalities. *The Review of Economics and Statistics* **103**:2, 397-411. [[Crossref](#)]
1057. Liangyu Zhang, Haolin Zhang, Xinye Yu, Yongqi Feng. 2021. Will the Supporting Policies Help the Recovery of SMEs during the Pandemic of COVID-19? — Evidence from Chinese Listed Companies. *Emerging Markets Finance and Trade* **57**:6, 1640-1651. [[Crossref](#)]

1058. Jean-William Laliberté. 2021. Long-Term Contextual Effects in Education: Schools and Neighborhoods. *American Economic Journal: Economic Policy* **13**:2, 336-377. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1059. Giovanna D'Inverno, Mike Smet, Kristof De Witte. 2021. Impact evaluation in a multi-input multi-output setting: Evidence on the effect of additional resources for schools. *European Journal of Operational Research* **290**:3, 1111-1124. [[Crossref](#)]
1060. Pejman Abedifar, Kais Bouslah, Yeliangzi Zheng. 2021. Stock price synchronicity and price informativeness: Evidence from a regulatory change in the U.S. banking industry. *Finance Research Letters* **40**, 101678. [[Crossref](#)]
1061. TOBIAS HEIDE-JØRGENSEN. 2021. Triggering Ideological Thinking: How Elections Foster Coherence of Welfare State Attitudes. *American Political Science Review* **115**:2, 506-521. [[Crossref](#)]
1062. Gregory W. Eaton, Tingting Liu, Micah S. Officer. 2021. Rethinking Measures of Mergers & Acquisitions Deal Premiums. *Journal of Financial and Quantitative Analysis* **56**:3, 1097-1126. [[Crossref](#)]
1063. Lucia Pacca, Daniele Curzi, Gordon Rausser, Alessandro Olper. 2021. The Role of Party Affiliation, Lobbying, and Electoral Incentives in Decentralized US State Support of the Environment. *Journal of the Association of Environmental and Resource Economists* **8**:3, 617-653. [[Crossref](#)]
1064. Alasdair C. Rutherford, Diarmuid McDonnell, Eddy Hogg. 2021. Incentivizing Regulatory Participation: Effectiveness of a Fundraising Levy. *Public Administration Review* **81**:3, 532-542. [[Crossref](#)]
1065. Rana Hasan, Yi Jiang, Radine Michelle Rafols. 2021. Place-based preferential tax policy and industrial development: Evidence from India's program on industrially backward districts. *Journal of Development Economics* **150**, 102621. [[Crossref](#)]
1066. Raphael Gouvêa, Daniele Girardi. 2021. Partisanship and local fiscal policy: Evidence from Brazilian cities. *Journal of Development Economics* **150**, 102637. [[Crossref](#)]
1067. Alan De Genaro, Pedro Ivo Camacho A. Salvador, Ivan Filipe Fernandes. 2021. Market power and banking regulations: Evidence from RDD application to the Brazilian banking market. *Economics Letters* **202**, 109821. [[Crossref](#)]
1068. Fen Li, Cunyi Yang, Zhenghui Li, Pierre Failier. 2021. Does Geopolitics Have an Impact on Energy Trade? Empirical Research on Emerging Countries. *Sustainability* **13**:9, 5199. [[Crossref](#)]
1069. Quinn Andrew Wesley Keefer. 2021. Did the 2011 Change to NFL Rookie Compensation Alter How Sunk Costs Affect Utilization?. *Journal of Sports Economics* **22**:4, 387-411. [[Crossref](#)]
1070. Yang Liu, Tao Shen, Yukari Nagai, Weilong Wu. 2021. Can the income level of rural residents be improved by the Chinese "Broadband Village?": Evidence from a regression discontinuity design of the six pilot provinces. *PLOS ONE* **16**:4, e0248079. [[Crossref](#)]
1071. Thomas S. Dee, Jessalynn James, Jim Wyckoff. 2021. Is Effective Teacher Evaluation Sustainable? Evidence from District of Columbia Public Schools. *Education Finance and Policy* **16**:2, 313-346. [[Crossref](#)]
1072. Andreas Lichter, Max Löffler, Sebastian Sieglösch. 2021. The Long-Term Costs of Government Surveillance: Insights from Stasi Spying in East Germany. *Journal of the European Economic Association* **19**:2, 741-789. [[Crossref](#)]

1073. Nathan TeBlunthuis, Benjamin Mako Hill, Aaron Halfaker. 2021. Effects of Algorithmic Flagging on Fairness. *Proceedings of the ACM on Human-Computer Interaction* 5:CSCW1, 1-27. [[Crossref](#)]
1074. Young-Gon Kim, Hosung Sohn. 2021. Promoting the performance of community childcare centers using the insight from behavioral economics: application of the last-place aversion and first-place seeking theory. *International Review of Public Administration* 26:2, 192-208. [[Crossref](#)]
1075. Yizhen Gu, Chang Jiang, Junfu Zhang, Ben Zou. 2021. Subways and Road Congestion. *American Economic Journal: Applied Economics* 13:2, 83-115. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1076. Robert M. Gonzalez. 2021. Cell Phone Access and Election Fraud: Evidence from a Spatial Regression Discontinuity Design in Afghanistan. *American Economic Journal: Applied Economics* 13:2, 1-51. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1077. Emily Rauscher, Byeongdon Oh. 2021. Going Places: Effects of Early U.S. Compulsory Schooling Laws on Internal Migration. *Population Research and Policy Review* 40:2, 255-283. [[Crossref](#)]
1078. Cuong Viet Nguyen. 2021. Old-Age Pensions in a Lower Middle-Income Country: Economic or Psychological Effects?. *Economic Development and Cultural Change* 69:3, 1165-1202. [[Crossref](#)]
1079. David S. Lee, Pauline Leung, Christopher J. O'Leary, Zhuan Pei, Simon Quach. 2021. Are Sufficient Statistics Necessary? Nonparametric Measurement of Deadweight Loss from Unemployment Insurance. *Journal of Labor Economics* 39:S2, S455-S506. [[Crossref](#)]
1080. Amanda Eng, Jordan Matsudaira. 2021. Pell Grants and Student Success: Evidence from the Universe of Federal Aid Recipients. *Journal of Labor Economics* 39:S2, S413-S454. [[Crossref](#)]
1081. Eric T. Roberts, Alexandra Glynn, Noelle Cornelio, Julie M. Donohue, Walid F. Gellad, J. Michael McWilliams, Lindsay M. Sabik. 2021. Medicaid Coverage 'Cliff' Increases Expenses And Decreases Care For Near-Poor Medicare Beneficiaries. *Health Affairs* 40:4, 552-561. [[Crossref](#)]
1082. Pedro S. Martins. 2021. Do entry wages increase when severance pay drops? Not in recessions. *Economics Letters* 201, 109798. [[Crossref](#)]
1083. Andrea Berggren, Louise Jeppsson. 2021. The Impact of Upper Secondary School Flexibility on Sorting and Educational Outcomes. *Economics of Education Review* 81, 102080. [[Crossref](#)]
1084. Jingjing Ye, Zhilong Qin, Xiaoguang Chen. 2021. Adapt by adopting cleaner vehicles? — Evidence from a low-emission zone policy in Nanchang, China. *China Economic Review* 66, 101598. [[Crossref](#)]
1085. Rodrigo Saens, Tamara Tigero. 2021. Mandatory dividend rules and the investment decision: The case of Chile. *The North American Journal of Economics and Finance* 56, 101373. [[Crossref](#)]
1086. Hongda Li, Srinivasan Selvam. 2021. CSI Index Reconstitutions: A Quasi-Natural Experiment in China\*. *Asia-Pacific Journal of Financial Studies* 50:2, 119-146. [[Crossref](#)]
1087. Javier Valbuena, Mauro Mediavilla, Álvaro Choi, María Gil. 2021. EFFECTS OF GRADE RETENTION POLICIES: A LITERATURE REVIEW OF EMPIRICAL STUDIES APPLYING CAUSAL INFERENCE. *Journal of Economic Surveys* 35:2, 408-451. [[Crossref](#)]
1088. Matthias Bäuml. 2021. How do hospitals respond to cross price incentives inherent in diagnosis-related groups systems? The importance of substitution in the market for sepsis conditions. *Health Economics* 30:4, 711-728. [[Crossref](#)]
1089. Yu-Chin Hsu, Shu Shen. 2021. Testing monotonicity of conditional treatment effects under regression discontinuity designs. *Journal of Applied Econometrics* 36:3, 346-366. [[Crossref](#)]



1090. Adrienne H. Sabety, Tisamarie B. Sherry, Nicole Maestas. 2021. Opioid use in older adults and Medicare Part D. *Health Services Research* **56**:2, 289-298. [[Crossref](#)]
1091. TOM GRIMSTVEDT MELING. 2021. Anonymous Trading in Equities. *The Journal of Finance* **76**:2, 707-754. [[Crossref](#)]
1092. Vincenzo Alfano, Lorenzo Cicatiello, Giuseppe Lucio Gaeta, Michele Gallo, Francesca Rotondo. 2021. Three is a Magic Number: Evidence on the Effects of the Application of the Three-Point Rule in Italy's Serie A. *Journal of Sports Economics* **22**:3, 329-356. [[Crossref](#)]
1093. Ali Moghtaderi, Avi Dor. 2021. Immunization and Moral Hazard: The HPV Vaccine and Uptake of Cancer Screening. *Medical Care Research and Review* **78**:2, 125-137. [[Crossref](#)]
1094. Kevin R. White, Mark F. Testa, Nancy Rolock. 2021. Evaluation of the Illinois adoption preservation and linkages (APAL) program using a regression discontinuity design. *Journal of Public Child Welfare* **15**:2, 154-181. [[Crossref](#)]
1095. Nattavudh Powdthavee. 2021. Education and pro-environmental attitudes and behaviours: A nonparametric regression discontinuity analysis of a major schooling reform in England and Wales. *Ecological Economics* **181**, 106931. [[Crossref](#)]
1096. Tomomi Tanaka, K. Takahashi, K. Otsuka. 2021. Gains from female education in rural Bangladesh: A multidimensional approach. *International Journal of Educational Development* **81**, 102344. [[Crossref](#)]
1097. Yutong Tan, Xianqiang Mao. 2021. Assessment of the policy effectiveness of Central Inspections of Environmental Protection on improving air quality in China. *Journal of Cleaner Production* **288**, 125100. [[Crossref](#)]
1098. Federico A. Bugni, Ivan A. Canay. 2021. Testing continuity of a density via g-order statistics in the regression discontinuity design. *Journal of Econometrics* **221**:1, 138-159. [[Crossref](#)]
1099. Francesco Bogliacino, Cristiano Codagnone. 2021. Microfoundations, behaviour, and evolution: Evidence from experiments. *Structural Change and Economic Dynamics* **56**, 372-385. [[Crossref](#)]
1100. A Ya'acob, N Zainol. 2021. Utilization of Central Composite Design in Optimization of Microbial Growth Inhibition using Ananas Comosus Leaves Juice. *IOP Conference Series: Materials Science and Engineering* **1092**:1, 012087. [[Crossref](#)]
1101. Fan Li, Andrea Mercatanti, Taneli Mäkinen, Andrea Silvestrini. 2021. A regression discontinuity design for ordinal running variables: Evaluating central bank purchases of corporate bonds. *The Annals of Applied Statistics* **15**:1. . [[Crossref](#)]
1102. Mevlude Akbulut-Yuksel, Catherine Boulatoff. 2021. The effects of a green nudge on municipal solid waste: Evidence from a clear bag policy. *Journal of Environmental Economics and Management* **106**, 102404. [[Crossref](#)]
1103. Daniel Gray, Alberto Montagnoli, Mirko Moro. 2021. Does education improve financial behaviors? Quasi-experimental evidence from Britain. *Journal of Economic Behavior & Organization* **183**, 481-507. [[Crossref](#)]
1104. Jonas Lau-Jensen Hirani. 2021. Inattention or reluctance? Parental responses to vaccination reminder letters. *Journal of Health Economics* **76**, 102439. [[Crossref](#)]
1105. Sacha Kapoor, Matthijs Oosterveen, Dinand Webbink. 2021. The price of forced attendance. *Journal of Applied Econometrics* **36**:2, 209-227. [[Crossref](#)]

1106. Elizabeth S. Park, Federick Ngo. 2021. The Effect of Developmental Math on STEM Participation in Community College: Variation by Race, Gender, Achievement, and Aspiration. *Educational Evaluation and Policy Analysis* **43**:1, 108-133. [[Crossref](#)]
1107. Marcelo Castro, Enlinson Mattos. 2021. Measuring Fiscal Spillovers in Brazilian Municipalities. *Public Finance Review* **49**:2, 221-261. [[Crossref](#)]
1108. Øyvind Bugge Solheim. 2021. Are we all Charlie? How media priming and framing affect immigration policy preferences after terrorist attacks. *West European Politics* **44**:2, 204-228. [[Crossref](#)]
1109. Clément Carbonnier. 2021. Imposition jointe des revenus et emploi des femmes mariées : estimation à partir du cas français. *Revue économique* **Vol. 72**:2, 215-244. [[Crossref](#)]
1110. Máté Baranyi, Roland Molontay. 2021. Comparing the effectiveness of two remedial mathematics courses using modern regression discontinuity techniques. *Interactive Learning Environments* **29**:2, 247-269. [[Crossref](#)]
1111. Aline Bütikofer, Julie Riise, Meghan M. Skira. 2021. The Impact of Paid Maternity Leave on Maternal Health. *American Economic Journal: Economic Policy* **13**:1, 67-105. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1112. Andrew C. Johnston. 2021. Unemployment Insurance Taxes and Labor Demand: Quasi-Experimental Evidence from Administrative Data. *American Economic Journal: Economic Policy* **13**:1, 266-293. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1113. Yan Song, Zhenran Li, Jun Liu, Tingting Yang, Ming Zhang, Jingru Pang. 2021. The effect of environmental regulation on air quality in China: A natural experiment during the COVID-19 pandemic. *Atmospheric Pollution Research* **54**. . [[Crossref](#)]
1114. Chunfang Cao, Xiaoyang Li, Changyuan Xia. 2021. The complicit role of local government authorities in corporate bribery: Evidence from a tax collection reform in China. *China Economic Review* **65**, 101578. [[Crossref](#)]
1115. Josefa Aguirre, Juan Matta. 2021. Walking in your footsteps: Sibling spillovers in higher education choices. *Economics of Education Review* **80**, 102062. [[Crossref](#)]
1116. Mohamed Ghaly, Alexandros Kostakis, Konstantinos Stathopoulos. 2021. The (non-) effect of labor unionization on firm risk: Evidence from the options market. *Journal of Corporate Finance* **66**, 101816. [[Crossref](#)]
1117. Georg Graetz. 2021. On the interpretation of diploma wage effects estimated by regression discontinuity designs. *Canadian Journal of Economics/Revue canadienne d'économie* **54**:1, 228-258. [[Crossref](#)]
1118. Ha Trong Nguyen, Huong Thu Le, Luke B Connelly. 2021. Who's declining the "free lunch"? New evidence from the uptake of public child dental benefits. *Health Economics* **30**:2, 270-288. [[Crossref](#)]
1119. Tzong-Haw Lee, Brian Lee, Yi-Ju Su, Hung-Hao Chang. 2021. Are There Any Undesired Effects of Anti-Land Fragmentation Programs on Farm Production Practices and Farm Input Use?. *Land* **10**:2, 138. [[Crossref](#)]
1120. Patrick Pilipiec, Wim Groot, Milena Pavlova. 2021. The causal influence of increasing the statutory retirement age on job satisfaction among older workers in the Netherlands. *Applied Economics* **32**, 1-30. [[Crossref](#)]
1121. Mingming Ma, Jenjira Yahirun, Joseph Saenz, Connor Sheehan. 2021. Offspring Educational Attainment and Older Parents' Cognition in Mexico. *Demography* . [[Crossref](#)]

1122. Emine Kübra Usta. 2021. Effects of Maternal Education on Early Nonmonetary Investments in Child Development. *Journal of Human Capital* 000-000. [[Crossref](#)]
1123. G.C.K. Cooper, K. Namit. 2021. City with a billion dollar view. *New Zealand Economic Papers* 55:1, 19-37. [[Crossref](#)]
1124. Henry G. Overman. Geographical Economics and Policy 1325-1340. [[Crossref](#)]
1125. Yiannis Kountouris. 2021. An Assessment of the Relationship Between Daylight Saving Time, Disruptions in Sleep Patterns and Dwelling Fires. *Fire Technology* 57:1, 123-144. [[Crossref](#)]
1126. Felipe Valencia Caicedo. Historical Econometrics: Instrumental Variables and Regression Discontinuity Designs 179-211. [[Crossref](#)]
1127. Rongxing Guo. Methods for analysing and estimating border effects 87-143. [[Crossref](#)]
1128. Liang Ma, Daniel J. Graham, Marc E.J. Stettler. 2021. Air quality impacts of new public transport provision: A causal analysis of the Jubilee Line Extension in London. *Atmospheric Environment* 245, 118025. [[Crossref](#)]
1129. Jason T. Hustedt, Kwanghee Jung, Allison H. Friedman-Krauss, W. Steven Barnett, Gerilyn Slicker. 2021. Impacts of the New Mexico PreK initiative by children's race/ethnicity. *Early Childhood Research Quarterly* 54, 194-203. [[Crossref](#)]
1130. Gustavo Saraiva Frio, Marco Tulio Aniceto França. 2021. Human papillomavirus vaccine and risky sexual behavior: Regression discontinuity design evidence from Brazil. *Economics & Human Biology* 40, 100946. [[Crossref](#)]
1131. Brian Lee, Hung-Hao Chang, Szu-Yung Wang. 2021. Can environmental disamenities increase land values? A case study of manufacturing factories on farmland. *Journal of Cleaner Production* 279, 123432. [[Crossref](#)]
1132. Sangeeta Bansal, Madhu Khanna, Joseph Sydlowski. 2021. Incentives for corporate social responsibility in India: Mandate, peer pressure and crowding-out effects. *Journal of Environmental Economics and Management* 105, 102382. [[Crossref](#)]
1133. Massimo Filippini, Tobias Wekhof. 2021. The effect of culture on energy efficient vehicle ownership. *Journal of Environmental Economics and Management* 105, 102400. [[Crossref](#)]
1134. Hai-Anh H. Dang, Trong-Anh Trinh. 2021. Does the COVID-19 lockdown improve global air quality? New cross-national evidence on its unintended consequences. *Journal of Environmental Economics and Management* 105, 102401. [[Crossref](#)]
1135. Xin Jiang, Guanglong Li, Wei Fu. 2021. Government environmental governance, structural adjustment and air quality: A quasi-natural experiment based on the Three-year Action Plan to Win the Blue Sky Defense War. *Journal of Environmental Management* 277, 111470. [[Crossref](#)]
1136. Nuri Ersahin, Rustom M. Irani, Hanh Le. 2021. Creditor control rights and resource allocation within firms. *Journal of Financial Economics* 139:1, 186-208. [[Crossref](#)]
1137. Alberto Ciancio, Fabrice Kämpfen, Hans-Peter Kohler, Iliana V. Kohler. 2021. Health screening for emerging non-communicable disease burdens among the global poor: Evidence from sub-Saharan Africa. *Journal of Health Economics* 75, 102388. [[Crossref](#)]
1138. M. Bergolo, G. Cruces. 2021. The anatomy of behavioral responses to social assistance when informal employment is high. *Journal of Public Economics* 193, 104313. [[Crossref](#)]

1139. Reo Takaku, Izumi Yokoyama. 2021. What the COVID-19 School Closure Left in Its Wake: Evidence from a Regression Discontinuity Analysis in Japan. *Journal of Public Economics* 104364. [[Crossref](#)]
1140. Anjali Thomas. 2021. Development or Rent Seeking? How Political Influence Shapes Public Works Provision in India. *British Journal of Political Science* 51:1, 253-274. [[Crossref](#)]
1141. Pablo A. Celhay, Julia Johannsen, Sebastian Martinez, Cecilia Vidal. 2021. Can Small Incentives Have Large Payoffs? Health Impacts of a Cash Transfer Program in Bolivia. *Economic Development and Cultural Change* 69:2, 591-621. [[Crossref](#)]
1142. André Braz Golgher. 2021. COMPARISONS OF COUNTERFACTUAL AFFIRMATIVE ACTION POLICIES AT THE FEDERAL UNIVERSITY OF MINAS GERAIS. *Revista Brasileira de Ciências Sociais* 36:105. . [[Crossref](#)]
1143. Jia Liu, Ziwei CONG. 2021. The Daily Me versus The Daily Others: Can Social Recommender Systems Diversify User Interests?. *SSRN Electronic Journal* 101. . [[Crossref](#)]
1144. Alessio Gaggero, Joan Gil Trasfi, Dolores Jiménez-Rubio, Eugenio Zucchelli. 2021. Health Information and Lifestyle Behaviours: the Impact of a Diabetes Diagnosis. *SSRN Electronic Journal* 43. . [[Crossref](#)]
1145. Lanlin Ding, Maoyong Fan, Peng Nie. 2021. Pollution and the Decline in Human Cognition: Evidence from China. *SSRN Electronic Journal* 7. . [[Crossref](#)]
1146. Esteban García-Miralles, Jonathan Leganza. 2021. Public Pensions and Private Savings. *SSRN Electronic Journal* 48. . [[Crossref](#)]
1147. Jung Sakong. 2021. Identifying Taste-Based Discrimination: Effect of Black Electoral Victories on Racial Prejudice and Economic Gaps. *SSRN Electronic Journal* 45. . [[Crossref](#)]
1148. Ross Stolzenberg, James T. Lindgren. 2021. Judges as Party Animals: Retirement Timing by Federal Judges and Party Control of Judicial Appointments. *SSRN Electronic Journal* 87. . [[Crossref](#)]
1149. Sandro Cabral, Leandro Pongeluppe, Nobuiuki Ito. 2021. The Disastrous Effects of Leaders in Denial: Evidence from the COVID-19 Crisis in Brazil. *SSRN Electronic Journal* 191. . [[Crossref](#)]
1150. Lina Anaya, Peter Howley, Muhammad Waqas, Gaston Yalonetzky. 2021. Locked down in Distress: a Causal Estimation of the Mental-Health Fallout from the COVID-19 Pandemic in the UK. *SSRN Electronic Journal* 41. . [[Crossref](#)]
1151. Tony Liu, Lyle Ungar, Konrad Kording. 2021. Quantifying causality in data science with quasi-experiments. *Nature Computational Science* 1:1, 24-32. [[Crossref](#)]
1152. Serim Hwang, Xiao Liu, Kannan Srinivasan. 2021. Voice Analytics of Online Influencers—Soft Selling in Branded Videos. *SSRN Electronic Journal* 38. . [[Crossref](#)]
1153. Panagiotis Avramidis, Konstantinos Serfes, Kejia Wu. 2021. The Role of Regulation and Competition in Information Production and Credit Allocation: Evidence from Small Business Lending. *SSRN Electronic Journal* 23. . [[Crossref](#)]
1154. Matthias Breuer. 2021. Bartik Instruments: An Applied Introduction. *SSRN Electronic Journal* 134. . [[Crossref](#)]
1155. Christoph Engel. 2021. Lucky You: Your Case is Heard by a Seasoned Panel - Panel Effects in the German Constitutional Court. *SSRN Electronic Journal* 36. . [[Crossref](#)]
1156. Raffi E. García, Jyothsna Harithsa, Abena Fosua Owusu. 2021. Adding Stress in Banking: Transparency Disclosures and Corporate Risk Culture. *SSRN Electronic Journal* 34. . [[Crossref](#)]

1157. Benjamin Collier, Cameron Ellis. 2021. Credit Demand in a Crisis. *SSRN Electronic Journal* 42. . [\[Crossref\]](#)
1158. Anantha Divakaruni, Howard Jones. 2021. Disclosure, Firm Growth, and the JOBS Act. *SSRN Electronic Journal* 28. . [\[Crossref\]](#)
1159. Yi Chen, Yi Zhao. 2021. How Did China's 'Later Marriage' Policy Affect the Timing of First Marriage and Later-Life Outcomes?. *SSRN Electronic Journal* 53. . [\[Crossref\]](#)
1160. Zhaowei She, Turgay Ayer, Bilal Gokpinar, Danny Hughes. 2021. Reverse Cross Subsidization in Healthcare Capitation Programs: Evidence from Medicare Advantage. *SSRN Electronic Journal* 63. . [\[Crossref\]](#)
1161. Robin Harding, Mounu Prem, Nelson Ruiz, David Vargas. 2021. Buying a Blind Eye: Campaign Donations, Forbearance, and Deforestation in Colombia. *SSRN Electronic Journal* 9. . [\[Crossref\]](#)
1162. Harald Hau, Yi Huang, Hongzhe Shan, Zixia Sheng. 2021. FinTech Credit and Entrepreneurial Growth. *SSRN Electronic Journal* 85. . [\[Crossref\]](#)
1163. David Lee, Justin McCrary, Marcelo J. Moreira, Jack R. Porter. 2021. Valid T-Ratio Inference for IV. *SSRN Electronic Journal* 20. . [\[Crossref\]](#)
1164. kofi amanor, Eric Fosu Oteng-Abayie, Prince Boakye Frimpong. 2021. Evaluating the Impact of Social Security Insurance on the Wellbeing of Pensioners in Ghana Using the Regression Discontinuity Framework. *SSRN Electronic Journal* 1. . [\[Crossref\]](#)
1165. FDIC Working Paper Series, Manju Puri, Emily Johnston Ross, Song Ma. 2021. Private Equity and Financial Stability: Evidence from Failed Bank Resolution in the Crisis. *SSRN Electronic Journal* 24. . [\[Crossref\]](#)
1166. Sabrina T Howell, Jason Rathje, John Van Reenen, Jun Wong. 2021. Opening up Military Innovation: Causal Effects of 'Bottom-Up' Reforms to U.S. Defense Research. *SSRN Electronic Journal* 88. . [\[Crossref\]](#)
1167. Roberto Bonfatti, Giovanni Facchini, Alexander Tarasov, Gian Luca Tedeschi, Cecilia Testa. 2021. Pork, Infrastructure and Growth: Evidence from the Italian Railway Expansion. *SSRN Electronic Journal* 34. . [\[Crossref\]](#)
1168. Jimmy Chengyuan Qu. 2021. Is Corporate Governance Priced in the Option Market? Evidence from Shareholder Proposals. *SSRN Electronic Journal* 69. . [\[Crossref\]](#)
1169. Andreas Myhre. 2021. Intensive and Extensive Margin Labor Supply Responses to Kinks in Disability Insurance Programs. *SSRN Electronic Journal* 109. . [\[Crossref\]](#)
1170. Jos N. van Ommeren, C.L. Behrens. 2021. From Silver to Platinum: The Effect of Frequent Flier Tier Levels on Airline Demand. *SSRN Electronic Journal* 1. . [\[Crossref\]](#)
1171. Juan David Yépez Torrijos. 2021. ¿Más dinero es más desarrollo municipal? El caso de Colombia (Does More Money Intend More Economic Development? The Case of Colombia). *SSRN Electronic Journal* 87. . [\[Crossref\]](#)
1172. Suqin Ge, Quqiong He, Sudipta Sarangi. 2021. Reaping What You Sow: Historical Rice Farming and Contemporary Cooperative Behavior in China. *SSRN Electronic Journal* 53. . [\[Crossref\]](#)
1173. Jonas Jessen, Daniel Kuehnle, Markus Wagner. 2021. Is Voting Really Habit-Forming and Transformative? Long-Run Effects of Earlier Eligibility on Turnout and Political Involvement from the UK. *SSRN Electronic Journal* 16. . [\[Crossref\]](#)

1174. Sumit Agarwal, Johnny Chan, Rongrong Xie, Nianhang Xu. 2021. Are executives more socially responsible when raised with siblings? Evidence from Chinese family firms. *SSRN Electronic Journal* 58. . [[Crossref](#)]
1175. Seong Jin Ahn, Yupeng Lin, Hojun Seo. 2021. Asset Impairment Model, Monitoring, and Investment Decisions: Evidence from Regression Kink Design. *SSRN Electronic Journal* 27. . [[Crossref](#)]
1176. Yuan Yuan, Christos Nicolaides, Alex Pentland, Dean Eckles. 2021. Promoting Physical Activity Through Prosocial Incentives on Mobile Platforms. *SSRN Electronic Journal* 5. . [[Crossref](#)]
1177. Chen Lin, Thomas Schmid, Huai Zhang. 2021. Do employees prefer conservative accounting?. *SSRN Electronic Journal* 77. . [[Crossref](#)]
1178. Zhongyi Han, Tao Wang, Liang Chen. 2021. The Effects of Safe Driving Programs on Traffic Violation Recidivism: Evidence from China. *SSRN Electronic Journal* 169. . [[Crossref](#)]
1179. kofi amanor, Eric F. Oteng-Abayie, Prince Boakye Frimpong. 2021. Evaluating the Impact of Social Security Insurance on the Wellbeing of Pensioners in Ghana Using the Regression Discontinuity Framework. *SSRN Electronic Journal* 1. . [[Crossref](#)]
1180. Gabriel Loumeau, Christian Stettler. 2021. Fiscal Autonomy and Self-Determination. *SSRN Electronic Journal* 83. . [[Crossref](#)]
1181. Jacob Nielsen Arendt, Iben Bolvig, Mette Foged, Linea Hasager, Giovanni Peri. 2021. Language Training and Refugees' Integration. *SSRN Electronic Journal* 2. . [[Crossref](#)]
1182. Jakub Grossmann, Stepan Jurajda, Felix Roesel. 2021. Forced Migration, Staying Minorities, and New Societies: Evidence from Post-War Czechoslovakia. *SSRN Electronic Journal* 114. . [[Crossref](#)]
1183. Mattia Filomena, Matteo Picchio. 2021. Are Temporary Jobs Stepping Stones or Dead Ends? A Meta-Analytical Review of the Literature. *SSRN Electronic Journal* 71. . [[Crossref](#)]
1184. Firat Yaman, Kingsley Offiaeli. 2021. The Effect of an Unconventional Fare Decrease on the Demand for Bus Journeys. *SSRN Electronic Journal* 120. . [[Crossref](#)]
1185. Matilde Cappelletti, Leonardo Maria Giuffrida. 2021. Procuring Survival. *SSRN Electronic Journal* 24. . [[Crossref](#)]
1186. Bill B. Francis, Raffi E. García, Jyothsna Harithsa. 2021. Taxes Under Stress: Bank Stress Tests and Corporate Tax Avoidance. *SSRN Electronic Journal* 34. . [[Crossref](#)]
1187. Yen-Cheng Chang, Yu-Siang Su, Ju-Fang Yen. 2021. Market Timing and Share Repurchase: A Regression Discontinuity Approach. *SSRN Electronic Journal* 2. . [[Crossref](#)]
1188. Andy Yuan, Spencer Cooper. 2021. Racial, Gender Disparities and Prosecutorial Discretion: Evidence from *Blakely v. Washington*. *SSRN Electronic Journal* 96. . [[Crossref](#)]
1189. Andreas G. F. Hoepner, Ming-Tsung Lin. 2021. Do Shareholder Views Affect Corporate Political Activities?. *SSRN Electronic Journal* 59. . [[Crossref](#)]
1190. Trent Krupa. 2021. How Do Firms Assess the Risks of Tax Aggressiveness? Evidence from Mandated Enterprise Risk Assessments. *SSRN Electronic Journal* 7. . [[Crossref](#)]
1191. Zhenxuan Wang, Junjie Zhang. 2021. The Value of Information Disclosure: Evidence from Mask Consumption in China. *SSRN Electronic Journal* 82. . [[Crossref](#)]
1192. Warut Khern-am-nuai, Hyunji So, Maxime C. Cohen, Yossiri Adulyasak. 2021. Selecting Cover Images for Restaurant Reviews: AI vs. Wisdom of the Crowd. *SSRN Electronic Journal* 29. . [[Crossref](#)]



1193. Lang Kate Yang, Jinhai Yu, Xin Chen. 2021. The Elusive Fiscal Commons: Examining Fiscal Interaction among Overlapping Governments. *SSRN Electronic Journal* **91**. . [[Crossref](#)]
1194. Sergio Pinto, Panka Bencsik, Tuugi Chuluun, Carol Graham. 2021. Presidential Elections, Divided Politics, and Happiness in the USA. *Economica* **88**:349, 189-207. [[Crossref](#)]
1195. Emmanuel Adu Boahen, Kwadwo Opoku, Simone Schotte. 2021. Duration of Pre-university Education and Labour Market Outcomes: Evidence from a Quasi-experiment in Ghana. *Journal of International Development* **33**:1, 208-232. [[Crossref](#)]
1196. Davide Luca, Felix Modrego. 2021. Stronger together? Assessing the causal effect of inter-municipal cooperation on the efficiency of small Italian municipalities. *Journal of Regional Science* **61**:1, 261-293. [[Crossref](#)]
1197. Essi Eerola, Teemu Lyytikäinen. 2021. Housing Allowance and Rents: Evidence from a Stepwise Subsidy Scheme\*. *The Scandinavian Journal of Economics* **123**:1, 84-109. [[Crossref](#)]
1198. Yizao Liu, Adam N. Rabinowitz. 2021. The impact of the COVID-19 pandemic on retail dairy prices. *Agribusiness* **37**:1, 108-121. [[Crossref](#)]
1199. Leopoldo Fergusson, Pablo Querubin, Nelson A. Ruiz, Juan F. Vargas. 2021. The Real Winner's Curse. *American Journal of Political Science* **65**:1, 52-68. [[Crossref](#)]
1200. Herman Kruse, Andreas Myhre. 2021. Early Retirement Provision for Elderly Displaced Workers. *SSRN Electronic Journal* **48**. . [[Crossref](#)]
1201. Yunhui Han. 2021. The effect of labor unions on municipal bonds. *SSRN Electronic Journal* **38**. . [[Crossref](#)]
1202. Christian Mücke, Lorian Pelizzon, Vincenzo Pezone, Anjan V. Thakor. 2021. The Carrot and the Stick: Bank Bailouts and the Disciplining Role of Board Appointments. *SSRN Electronic Journal* **28**. . [[Crossref](#)]
1203. Jun Chen. 2021. Overvalued Equity and Investment: A Regression Discontinuity Approach. *SSRN Electronic Journal* **59**. . [[Crossref](#)]
1204. Eliezer M. Fich, Guosong Xu. 2021. Involuntarily green? Corporate donations to politicians and their votes on environmental legislation. *SSRN Electronic Journal* **28**. . [[Crossref](#)]
1205. Patrick J. Ferguson. 2021. Do managers distinguish between effects of luck and effort on employees' performance outcomes? Evidence from a high-stakes field setting. *SSRN Electronic Journal* **100**. . [[Crossref](#)]
1206. Victor Saint-Jean. 2021. Promise at Dawn: Market Fragmentation and Liquidity when Dark Pools are Suspended. *SSRN Electronic Journal* **57**. . [[Crossref](#)]
1207. Fang-Chang Kuo. 2021. Shirking with Good Reputation? Evidence from Hotel Industry. *SSRN Electronic Journal* **122**. . [[Crossref](#)]
1208. Marco Percoco. Road Traffic Regulation: Road Pricing and Environmental Quality 378-383. [[Crossref](#)]
1209. Li Han, Xinzheng Shi, Ming-ang Zhang. 2021. How Does Matching Uncertainty Affect Marital Surplus? Theory and Evidence from China. *SSRN Electronic Journal* **106**. . [[Crossref](#)]
1210. Michele Hilton Boon, Peter Craig, Hilary Thomson, Mhairi Campbell, Laurence Moore. 2021. Regression Discontinuity Designs in Health. *Epidemiology* **32**:1, 87-93. [[Crossref](#)]

1211. Aaron D. Hill, Scott G. Johnson, Lindsey M. Greco, Ernest H. O'Boyle, Sheryl L. Walter. 2021. Endogeneity: A Review and Agenda for the Methodology-Practice Divide Affecting Micro and Macro Research. *Journal of Management* **47**:1, 105-143. [[Crossref](#)]
1212. Georgine M. Pion, Mark W. Lipsey. 2021. Impact of the Tennessee Voluntary Prekindergarten Program on Children's Literacy, Language, and Mathematics Skills: Results From a Regression-Discontinuity Design. *AERA Open* **7**. . [[Crossref](#)]
1213. Ali Sanati. 2021. How Does Removing the Tax Benefits of Debt Affect Firms? Evidence from the 2017 US Tax Reform. *SSRN Electronic Journal* **105**. . [[Crossref](#)]
1214. Gozde Corekcioglu, Marco Francesconi, Astrid Kunze. 2020. Do generous parental leave policies help top female earners?. *Oxford Review of Economic Policy* **36**:4, 882-902. [[Crossref](#)]
1215. Cristian Crespo. 2020. Beyond Manipulation: Administrative Sorting in Regression Discontinuity Designs. *Journal of Causal Inference* **8**:1, 164-181. [[Crossref](#)]
1216. Luca Repetto, Alex Solis. 2020. The Price of Inattention: Evidence from the Swedish Housing Market. *Journal of the European Economic Association* **18**:6, 3261-3304. [[Crossref](#)]
1217. Massimo Anelli. 2020. The Returns to Elite University Education: a Quasi-Experimental Analysis. *Journal of the European Economic Association* **18**:6, 2824-2868. [[Crossref](#)]
1218. Chad Hazlett, Werner Maokola, David Ami Wulf. 2020. Inference without randomization or ignorability: A stability-controlled quasi-experiment on the prevention of tuberculosis. *Statistics in Medicine* **39**:28, 4169-4186. [[Crossref](#)]
1219. Guido W. Imbens. 2020. Potential Outcome and Directed Acyclic Graph Approaches to Causality: Relevance for Empirical Practice in Economics. *Journal of Economic Literature* **58**:4, 1129-1179. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1220. Shingo Fukuma, Toshiaki Iizuka, Tatsuyoshi Ikenoue, Yusuke Tsugawa. 2020. Association of the National Health Guidance Intervention for Obesity and Cardiovascular Risks With Health Outcomes Among Japanese Men. *JAMA Internal Medicine* **180**:12, 1630. [[Crossref](#)]
1221. Tu T. Nguyen, Barış K. Yörük. 2020. Aging out of dependent coverage and the effects on the use of inpatient medical care. *International Journal of Health Economics and Management* **20**:4, 381-390. [[Crossref](#)]
1222. Yan Song, Aina Zhou, Ming Zhang. 2020. Exploring the effect of subjective air pollution on happiness in China. *Environmental Science and Pollution Research* **27**:34, 43299-43311. [[Crossref](#)]
1223. Masayuki Onda, Edward Seyler. 2020. English learners reclassification and academic achievement: Evidence from Minnesota. *Economics of Education Review* **79**, 102043. [[Crossref](#)]
1224. Yiannis Kountouris. 2020. Higher education and fertility: Evidence from reforms in Greece. *Economics of Education Review* **79**, 102059. [[Crossref](#)]
1225. Lan Zheng, Ming Na. 2020. A pollution paradox? The political economy of environmental inspection and air pollution in China. *Energy Research & Social Science* **70**, 101773. [[Crossref](#)]
1226. Idaira Rodriguez Santana, Misael Anaya Montes, Martin Chalkley, Rowena Jacobs, Tina Kowalski, Jane Suter. 2020. The impact of extending nurse working hours on staff sickness absence: Evidence from a large mental health hospital in England. *International Journal of Nursing Studies* **112**, 103611. [[Crossref](#)]
1227. Wei Jiang, Yi Lu, Huihua Xie. 2020. Education and mental health: Evidence and mechanisms. *Journal of Economic Behavior & Organization* **180**, 407-437. [[Crossref](#)]

1228. Nicolas Bouckaert, Anne C. Gielen, Tom Van Ourti. 2020. It runs in the family – Influenza vaccination and spillover effects. *Journal of Health Economics* **74**, 102386. [[Crossref](#)]
1229. Samuel Berlinski, Alejandra Ramos. 2020. Peer effects in the decision to apply for a professional excellence award. *Labour Economics* **67**, 101934. [[Crossref](#)]
1230. Chen Lin, Lai Wei, Wensi Xie. 2020. Managerial Entrenchment and Information Production. *Journal of Financial and Quantitative Analysis* **55**:8, 2500-2529. [[Crossref](#)]
1231. Julius Ohrnberger, Eleonora Fichera, Matt Sutton, Laura Anselmi. 2020. The effect of cash transfers on mental health – new evidence from South Africa. *BMC Public Health* **20**:1. . [[Crossref](#)]
1232. Yang Li, Guangfeng Duan, Linping Xiong. 2020. Analysis of the effect of serious illness medical insurance on relieving the economic burden of rural residents in China: a case study in Jinzhai County. *BMC Health Services Research* **20**:1. . [[Crossref](#)]
1233. Shanquan Chen, Xi Chen, Stephen Law, Henry Lucas, Shenlan Tang, Qian Long, Lei Xue, Zheng Wang. 2020. How and to what extent can pensions facilitate increased use of health services by older people: evidence from social pension expansion in rural China. *BMC Health Services Research* **20**:1. . [[Crossref](#)]
1234. Shawn Patterson. 2020. Estimating the unintended participation penalty under top-two primaries with a discontinuity design. *Electoral Studies* **68**, 102231. [[Crossref](#)]
1235. Haeruiddin Saleh, Batara Surya, Despry Nur Annisa Ahmad, Darmawati Manda. 2020. The Role of Natural and Human Resources on Economic Growth and Regional Development: With Discussion of Open Innovation Dynamics. *Journal of Open Innovation: Technology, Market, and Complexity* **6**:4, 103. [[Crossref](#)]
1236. Chong Lu. 2020. Does household laborer migration promote farmland abandonment in China?. *Growth and Change* **51**:4, 1804-1836. [[Crossref](#)]
1237. Maria Carolina Velasco, Stavroula A. Chrysanthopoulou, Omar Galárraga. 2020. Cash Transfers and Contraceptive Use: A Regression Discontinuity Analysis. *Studies in Family Planning* **51**:4, 309-321. [[Crossref](#)]
1238. Hung-Hao Chang, Tzu-Chin Lin. 2020. Does a farmland zoning program impact farm income: empirical evidence from farm households in Taiwan. *European Review of Agricultural Economics* **47**:5, 1621-1643. [[Crossref](#)]
1239. Martin Nordin, Ida Lovén. 2020. Is the setting up aid mitigating the generational renewal problem in farming?. *European Review of Agricultural Economics* **47**:5, 1697-1715. [[Crossref](#)]
1240. Lina Salazar, Julian Aramburu, Marcos Agurto, Alessandro Maffioli, Jossie Fahsbender. 2020. Sweeping the flies away: evidence from a fruit fly eradication program. *European Review of Agricultural Economics* **47**:5, 1920-1962. [[Crossref](#)]
1241. Jaime Millán-Quijano. 2020. Fuzzy difference in discontinuities. *Applied Economics Letters* **27**:19, 1552-1555. [[Crossref](#)]
1242. Daniel A. Brent, Corey Lott, Michael Taylor, Joseph Cook, Kimberly Rollins, Shawn Stoddard. 2020. What Causes Heterogeneous Responses to Social Comparison Messages for Water Conservation?. *Environmental and Resource Economics* **77**:3, 503-537. [[Crossref](#)]
1243. Gang Lu, Runsheng Yin. 2020. Evaluating the Evaluated Socioeconomic Impacts of China's Sloping Land Conversion Program. *Ecological Economics* **177**, 106785. [[Crossref](#)]

1244. Anil Kumar. 2020. Does medicaid generosity affect household income?. *Economic Modelling* **92**, 239-256. [[Crossref](#)]
1245. Todd McFall, Kurt W. Rotthoff. 2020. Risk-taking dynamics in tournaments: Evidence from professional golf. *Journal of Economic Behavior & Organization* **179**, 378-394. [[Crossref](#)]
1246. Shinsuke Tanaka. 2020. When tax incentives drive illicit behavior: The manipulation of fuel economy in the automobile industry. *Journal of Environmental Economics and Management* **104**, 102367. [[Crossref](#)]
1247. Pablo Brassiolo, Ricardo Estrada, Gustavo Fajardo. 2020. My (running) mate, the mayor: Political ties and access to public sector jobs in Ecuador. *Journal of Public Economics* **191**, 104286. [[Crossref](#)]
1248. Naercio Menezes-Filho, Ricardo Politi. 2020. Estimating the causal effects of private health insurance in Brazil: Evidence from a regression kink design. *Social Science & Medicine* **264**, 113258. [[Crossref](#)]
1249. Scott Desposato, Gang Wang. 2020. THE LONG-TERM IMPACT OF SOCIAL MOVEMENTS AND REPRESSION ON DEMOCRATIC ATTITUDES. *Journal of East Asian Studies* **20**:3, 317-351. [[Crossref](#)]
1250. Guojun He, Shaoda Wang, Bing Zhang. 2020. Watering Down Environmental Regulation in China\*. *The Quarterly Journal of Economics* **135**:4, 2135-2185. [[Crossref](#)]
1251. Julia M Pescarini, Peter Craig, Mirjam Allik, Leila Amorim, Sanni Ali, Liam Smeeth, Mauricio L Barreto, Alastair H Leyland, Estela M L Aquino, Srinivasa Vittal Katikireddi. 2020. Evaluating the impact of the Bolsa Familia conditional cash transfer program on premature cardiovascular and all-cause mortality using the 100 million Brazilian cohort: a natural experiment study protocol. *BMJ Open* **10**:11, e039658. [[Crossref](#)]
1252. David Wuepper, Solen Le Clech, David Zilberman, Nathaniel Mueller, Robert Finger. 2020. Countries influence the trade-off between crop yields and nitrogen pollution. *Nature Food* **1**:11, 713-719. [[Crossref](#)]
1253. Yongwei Chen, Ying Zhang. 2020. Effects of free compulsory education on rural well-being in China. *Asian-Pacific Economic Literature* **34**:2, 78-92. [[Crossref](#)]
1254. Guenter W. Beck, Hans-Helmut Kotz, Natalia Zabelina. 2020. Price gaps at the border: Evidence from multi-country household scanner data. *Journal of International Economics* **127**, 103368. [[Crossref](#)]
1255. Haiya Cai, Yongqing Nan, Yongliang Zhao, Weiling Jiao, Kunyou Pan. 2020. Impacts of winter heating on the atmospheric pollution of northern China's prefectural cities: Evidence from a regression discontinuity design. *Ecological Indicators* **118**, 106709. [[Crossref](#)]
1256. Jue Tao Lim, Borame Sue Lee Dickens, Lawrence Zheng Xiong Chew, Esther Li Wen Choo, Joel Ruihan Koo, Joel Aik, Lee Ching Ng, Alex R. Cook. 2020. Impact of sars-cov-2 interventions on dengue transmission. *PLOS Neglected Tropical Diseases* **14**:10, e0008719. [[Crossref](#)]
1257. Andrew E Clark, Orla Doyle, Elena Stancanelli. 2020. The Impact of Terrorism on Individual Well-Being: Evidence from the Boston Marathon Bombing. *The Economic Journal* **130**:631, 2065-2104. [[Crossref](#)]
1258. Riccardo Crescenzi, Guido de Blasio, Mara Giua. 2020. Cohesion Policy incentives for collaborative industrial research: evaluation of a Smart Specialisation forerunner programme. *Regional Studies* **54**:10, 1341-1353. [[Crossref](#)]

1259. Peter Ganong, Pascal Noel. 2020. Liquidity versus Wealth in Household Debt Obligations: Evidence from Housing Policy in the Great Recession. *American Economic Review* **110**:10, 3100-3138. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1260. Emanuele Colonnelli, Mounu Prem, Edoardo Teso. 2020. Patronage and Selection in Public Sector Organizations. *American Economic Review* **110**:10, 3071-3099. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1261. Lisa Barrow, Lauren Sartain, Marisa de la Torre. 2020. Increasing Access to Selective High Schools through Place-Based Affirmative Action: Unintended Consequences. *American Economic Journal: Applied Economics* **12**:4, 135-163. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1262. Pablo A. Peña. 2020. Relative age and investment in human capital. *Economics of Education Review* **78**, 102039. [[Crossref](#)]
1263. Thach Vu Hong Nguyen, Shamim Ahmed, Thanaset Chevapatrakul, Enrico Onali. 2020. Do stress tests affect bank liquidity creation?. *Journal of Corporate Finance* **64**, 101622. [[Crossref](#)]
1264. T. Kuusi, P. Martikainen, T. Valkonen. 2020. The influence of old-age retirement on health: Causal evidence from the Finnish register data. *The Journal of the Economics of Ageing* **17**, 100257. [[Crossref](#)]
1265. Muhammad Halley Yudhistira, Prani Sastiono, Melly Meliyawati. 2020. Exploiting unanticipated change in block rate pricing for water demand elasticities estimation: Evidence from Indonesian suburban area. *Water Resources and Economics* **32**, 100161. [[Crossref](#)]
1266. Joan Barceló, Elena Labzina. 2020. Do Islamic State's Deadly Attacks Disengage, Deter, or Mobilize Supporters?. *British Journal of Political Science* **50**:4, 1539-1559. [[Crossref](#)]
1267. Carlos Sanz. 2020. Direct democracy and government size: evidence from Spain. *Political Science Research and Methods* **8**:4, 630-645. [[Crossref](#)]
1268. Jun Ma, Hugo Jales, Zhengfei Yu. 2020. Minimum Contrast Empirical Likelihood Inference of Discontinuity in Density \*. *Journal of Business & Economic Statistics* **38**:4, 934-950. [[Crossref](#)]
1269. Michael Gilraine. 2020. A Method for Disentangling Multiple Treatments from a Regression Discontinuity Design. *Journal of Labor Economics* **38**:4, 1267-1311. [[Crossref](#)]
1270. John B. Holbein, Marcos A. Rangel. 2020. Does Voting Have Upstream and Downstream Consequences? Regression Discontinuity Tests of the Transformative Voting Hypothesis. *The Journal of Politics* **82**:4, 1196-1216. [[Crossref](#)]
1271. Weike Zhang, Jia Meng, Xiaoli Tian. 2020. Does de-capacity policy enhance the total factor productivity of China's coal companies? A Regression Discontinuity design. *Resources Policy* **68**, 101741. [[Crossref](#)]
1272. VICENTE CUÑAT, MIREIA GINÉ, MARIA GUADALUPE. 2020. Price and Probability: Decomposing the Takeover Effects of Anti-Takeover Provisions. *The Journal of Finance* **75**:5, 2591-2629. [[Crossref](#)]
1273. Timothy T. Brown, Christie Ahn, Haoyue Huang, Zaidat Ibrahim. 2020. Reducing the prevalence of low-back pain by reducing the prevalence of psychological distress: Evidence from a natural experiment and implications for health care providers. *Health Services Research* **55**:5, 631-641. [[Crossref](#)]
1274. Federica Licari, Alessandra Mattei. 2020. Assessing Causal Effects of Extra Compulsory Learning on College Students' Academic Performances. *Journal of the Royal Statistical Society Series A: Statistics in Society* **183**:4, 1595-1614. [[Crossref](#)]

1275. Noxolo Kunene, Yessica C.Y. Chung. 2020. Sustainable Production Policy Impact on Palm Oil Firms' Performance: Empirical Analysis from Indonesia. *Sustainability* **12**:20, 8750. [[Crossref](#)]
1276. Wei Zhou, Wanying Rao, Danxue Luo, Harish Garg. 2020. Policy Effectiveness Analysis of China's Circuit Breaker Mechanism. *Complexity* **2020**, 1-14. [[Crossref](#)]
1277. Muhsin Ali, Karim Khan, Muhammad Saeed Meo. 2020. Trust in post-conflict life: Evidence from a conflict zone in Pakistan. *Journal of Public Affairs* **2**. . [[Crossref](#)]
1278. Edwin Cheng, Hugo K.S. Lam, Andrew C. Lyons, Andy C.L. Yeung. 2020. Guest editorial. *International Journal of Operations & Production Management* **40**:5, 509-530. [[Crossref](#)]
1279. Jungtaek Lee, Juyeon Kim. 2020. The role of health insurance in mental health care for young adults. *Applied Economics* **52**:42, 4577-4593. [[Crossref](#)]
1280. Matteo Picchio, Jan C. van Ours. 2020. Mental Health Effects of Retirement. *De Economist* **168**:3, 419-452. [[Crossref](#)]
1281. Chen Feng, Beibei Shi, Ming Xu. 2020. The political origin of differences in long-term economic prosperity: centralization versus decentralization. *Cliometrica* **14**:3, 581-639. [[Crossref](#)]
1282. Blane D. Lewis, Hieu T.M. Nguyen, Adrianus Hendrawan. 2020. Political accountability and public service delivery in decentralized Indonesia: Incumbency advantage and the performance of second term mayors. *European Journal of Political Economy* **64**, 101910. [[Crossref](#)]
1283. Matteo Picchio, Raffaella Santolini. 2020. Fiscal rules and budget forecast errors of Italian municipalities. *European Journal of Political Economy* **64**, 101921. [[Crossref](#)]
1284. Pei Li, Yi Lu, Jin Wang. 2020. The effects of fuel standards on air pollution: Evidence from China. *Journal of Development Economics* **146**, 102488. [[Crossref](#)]
1285. Alexey Makarin, Ricardo Piqué, Fernando Aragón. 2020. National or sub-national parties: Does party geographic scope matter?. *Journal of Development Economics* **146**, 102516. [[Crossref](#)]
1286. Caroline Chuard. 2020. Womb at work: The missing impact of maternal employment on newborn health. *Journal of Health Economics* **73**, 102342. [[Crossref](#)]
1287. Björn Fischer, Kai-Uwe Müller. 2020. Time to care? The effects of retirement on informal care provision. *Journal of Health Economics* **73**, 102350. [[Crossref](#)]
1288. Takeshi Miyazaki. 2020. Intergovernmental fiscal transfers and tax efforts: Regression-discontinuity analysis for Japanese local governments. *Regional Science and Urban Economics* **84**, 103554. [[Crossref](#)]
1289. Riccardo Crescenzi, Marco Di Cataldo, Mara Giua. 2020. It's not about the money. EU funds, local opportunities, and Euroscepticism. *Regional Science and Urban Economics* **84**, 103556. [[Crossref](#)]
1290. Majah-Leah V. Ravago, Claire Dennis S. Mapa. 2020. Awards and recognition: Do they matter in teachers' income trajectory?. *Studies in Educational Evaluation* **66**, 100901. [[Crossref](#)]
1291. Patricia A. Kirkland, Justin H. Phillips. 2020. A Regression Discontinuity Design for Studying Divided Government. *State Politics & Policy Quarterly* **20**:3, 356-389. [[Crossref](#)]
1292. José M. Alonso, Rhys Andrews. 2020. Political Ideology and Social Services Contracting: Evidence from a Regression Discontinuity Design. *Public Administration Review* **80**:5, 743-754. [[Crossref](#)]
1293. Alexander Luttmann, Cody Nehiba. 2020. The Effects of Employee Hours-of-Service Regulations on the U.S. Airline Industry. *Journal of Policy Analysis and Management* **39**:4, 1043-1075. [[Crossref](#)]
1294. JIE HE, XUAN TIAN, HUAN YANG, LUO ZUO. 2020. Asymmetric Cost Behavior and Dividend Policy. *Journal of Accounting Research* **58**:4, 989-1021. [[Crossref](#)]



1295. Dominique J. Baker. 2020. "Name and Shame": An Effective Strategy for College Tuition Accountability?. *Educational Evaluation and Policy Analysis* **42**:3, 393-416. [[Crossref](#)]
1296. Alonso Bucarey, Dante Contreras, Pablo Muñoz. 2020. Labor Market Returns to Student Loans for University: Evidence from Chile. *Journal of Labor Economics* 000-000. [[Crossref](#)]
1297. Alexander Hijzen, Pedro S. Martins. 2020. No extension without representation? Evidence from a natural experiment in collective bargaining. *IZA Journal of Labor Economics* **9**:1. . [[Crossref](#)]
1298. John Moffat. 2020. The impact of participation in pan-European competition on domestic performance in association football. *European Sport Management Quarterly* **20**:4, 440-457. [[Crossref](#)]
1299. Hsing-Wen Han, Hsien-Ming Lien, Tzu-Ting Yang. 2020. Patient Cost-Sharing and Healthcare Utilization in Early Childhood: Evidence from a Regression Discontinuity Design. *American Economic Journal: Economic Policy* **12**:3, 238-278. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1300. Lionel Cottier, Kathrin Degen, Rafael Lalive. 2020. Can unemployment benefit cuts improve employment and earnings?. *Empirical Economics* **59**:2, 659-699. [[Crossref](#)]
1301. Hieu T. M. Nguyen, Blane D. Lewis. 2020. Teenage Marriage and Motherhood in Vietnam: The Negative Effects of Starting School Early. *Population Research and Policy Review* **39**:4, 739-762. [[Crossref](#)]
1302. Deon Filmer, Halsey Rogers, Noam Angrist, Shwetlena Sabarwal. 2020. Learning-adjusted years of schooling (LAYS): Defining a new macro measure of education. *Economics of Education Review* **77**, 101971. [[Crossref](#)]
1303. Louise Beuchert, Tine Louise Mundbjerg Eriksen, Morten Visby Krægpøth. 2020. The impact of standardized test feedback in math: Exploiting a natural experiment in 3rd grade. *Economics of Education Review* **77**, 102017. [[Crossref](#)]
1304. Sara Pedron, Werner Maier, Annette Peters, Birgit Linkohr, Christine Meisinger, Wolfgang Rathmann, Peter Eibich, Lars Schwettmann. 2020. The effect of retirement on biomedical and behavioral risk factors for cardiovascular and metabolic disease. *Economics & Human Biology* **38**, 100893. [[Crossref](#)]
1305. Anna Risch. 2020. Are environmental fiscal incentives effective in inducing energy-saving renovations? An econometric evaluation of the French energy tax credit. *Energy Economics* **90**, 104831. [[Crossref](#)]
1306. Eric Bonsang, Arthur van Soest. 2020. Time devoted to home production and retirement in couples: A panel data analysis. *Labour Economics* **65**, 101810. [[Crossref](#)]
1307. Andrea Albanese, Matteo Picchio, Corinna Ghirelli. 2020. Timed to Say Goodbye: Does Unemployment Benefit Eligibility Affect Worker Layoffs?. *Labour Economics* **65**, 101846. [[Crossref](#)]
1308. J.J. Szczygielski, L.M. Brummer, H.P. Wolmarans. 2020. Underspecification of the Empirical Return-Factor Model and a Factor Analytic Augmentation as a Solution to Factor Omission. *Studies in Economics and Econometrics* **44**:2, 133-165. [[Crossref](#)]
1309. Tyler J. VanderWeele, Maya B. Mathur, Ying Chen. 2020. Outcome-Wide Longitudinal Designs for Causal Inference: A New Template for Empirical Studies. *Statistical Science* **35**:3. . [[Crossref](#)]
1310. Shiyang Gong, Jackson G. Lu, John M. Schaubroeck, Qian Li, Qiwei Zhou, Xiaoye Qian. 2020. Polluted Psyche: Is the Effect of Air Pollution on Unethical Behavior More Physiological or Psychological?. *Psychological Science* **31**:8, 1040-1047. [[Crossref](#)]

1311. Claudia Berg, M. Shahe Emran. 2020. Microfinance and Vulnerability to Seasonal Famine in a Rural Economy: Evidence from Monga in Bangladesh. *The B.E. Journal of Economic Analysis & Policy* **20**:3. . [\[Crossref\]](#)
1312. Corey A. DeAngelis, Heidi Holmes Erickson, Gary W. Ritter. 2020. What's the state of the evidence on pre-K programmes in the United States? A systematic review. *Educational Review* **72**:4, 495-519. [\[Crossref\]](#)
1313. Howard Bloom, Andrew Bell, Kayla Reiman. 2020. Using Data from Randomized Trials to Assess the Likely Generalizability of Educational Treatment-Effect Estimates from Regression Discontinuity Designs. *Journal of Research on Educational Effectiveness* **13**:3, 488-517. [\[Crossref\]](#)
1314. Matias D. Cattaneo, Michael Jansson, Xinwei Ma. 2020. Simple Local Polynomial Density Estimators. *Journal of the American Statistical Association* **115**:531, 1449-1455. [\[Crossref\]](#)
1315. Marinho Bertanha, Guido W. Imbens. 2020. External Validity in Fuzzy Regression Discontinuity Designs. *Journal of Business & Economic Statistics* **38**:3, 593-612. [\[Crossref\]](#)
1316. Attila Lindner, Balázs Reizer. 2020. Front-Loading the Unemployment Benefit: An Empirical Assessment. *American Economic Journal: Applied Economics* **12**:3, 140-174. [\[Abstract\]](#) [\[View PDF article\]](#) [\[PDF with links\]](#)
1317. Saima Nawaz, Nasir Iqbal. 2020. The impact of unconditional cash transfer on fuel choices among ultra-poor in Pakistan: Quasi-experimental evidence from the Benazir Income Support Program. *Energy Policy* **142**, 111535. [\[Crossref\]](#)
1318. Guangfei Yang, Yan Zhang, Xianneng Li. 2020. Impact of gasoline upgrade policy on particulate matter pollution in China. *Journal of Cleaner Production* **262**, 121336. [\[Crossref\]](#)
1319. Benjamin Hansen, Keaton Miller, Caroline Weber. 2020. Federalism, partial prohibition, and cross-border sales: Evidence from recreational marijuana. *Journal of Public Economics* **187**, 104159. [\[Crossref\]](#)
1320. Serena Canaan. 2020. The long-run effects of reducing early school tracking. *Journal of Public Economics* **187**, 104206. [\[Crossref\]](#)
1321. Elias Einiö, Henry G. Overman. 2020. The effects of supporting local business: Evidence from the UK. *Regional Science and Urban Economics* **83**, 103500. [\[Crossref\]](#)
1322. Yiannis Kountouris. 2020. Human activity, daylight saving time and wildfire occurrence. *Science of The Total Environment* **727**, 138044. [\[Crossref\]](#)
1323. Tarik Abou-Chadi, Werner Krause. 2020. The Causal Effect of Radical Right Success on Mainstream Parties' Policy Positions: A Regression Discontinuity Approach. *British Journal of Political Science* **50**:3, 829-847. [\[Crossref\]](#)
1324. Anthony Fowler, Haritz Garro, Jörg L. Spenkuch. 2020. Quid Pro Quo? Corporate Returns to Campaign Contributions. *The Journal of Politics* **82**:3, 844-858. [\[Crossref\]](#)
1325. Gustavo Fajardo. 2020. Sir, Yes, Sir! Hierarchy, Coups and the Political Preferences of Army Officers. *The Economic Journal* **130**:629, 1317-1345. [\[Crossref\]](#)
1326. Tyler J Lane, Luke Sheehan, Shannon E Gray, Dianne Beck, Alex Collie. 2020. Step-downs reduce workers' compensation payments to encourage return to work: are they effective?. *Occupational and Environmental Medicine* **77**:7, 470-477. [\[Crossref\]](#)
1327. Sungho Park, Elliot Rabinovich, Christopher S. Tang, Rui Yin. 2020. The impact of disclosing inventory-scarcity messages on sales in online retailing. *Journal of Operations Management* **66**:5, 534-552. [\[Crossref\]](#)

1328. Pierre Mouganie. 2020. Conscription and the Returns to Education: Evidence from a Regression Discontinuity\*. *The Scandinavian Journal of Economics* **122**:3, 1112-1139. [[Crossref](#)]
1329. Jamie Sharpe. 2020. A PATHWAY TO HOMEOWNERSHIP? EVIDENCE FROM THE IMMIGRATION REFORM AND CONTROL ACT OF 1986. *Contemporary Economic Policy* **38**:3, 435-447. [[Crossref](#)]
1330. Selçuk Özaydın. 2020. An empirical analysis of financial fair-play: The case of Russian Premier League. *Russian Journal of Economics* **6**:2, 196-212. [[Crossref](#)]
1331. Brittany Bass. 2020. Does an Introduction of a Paid Parental Leave Policy Affect Maternal Labor Market Outcomes in the Short Run? Evidence from Australia's Paid Parental Leave Scheme. *IZA Journal of Labor Policy* **10**:1. . [[Crossref](#)]
1332. Per G. Fredriksson, Le Wang. 2020. The politics of environmental enforcement: the case of the Resource and Conservation Recovery Act. *Empirical Economics* **58**:6, 2593-2613. [[Crossref](#)]
1333. Alberto Ortega. 2020. State partisanship and higher education. *Economics of Education Review* **76**, 101977. [[Crossref](#)]
1334. Sabrina T. Howell. 2020. Reducing information frictions in venture capital: The role of new venture competitions. *Journal of Financial Economics* **136**:3, 676-694. [[Crossref](#)]
1335. Samuel Berlinski, Alejandra Ramos. 2020. Teacher mobility and merit pay: Evidence from a voluntary public award program. *Journal of Public Economics* **186**, 104186. [[Crossref](#)]
1336. Stephanie M. Rizio, Ahmed Skali. 2020. How often do dictators have positive economic effects? Global evidence, 1858–2010. *The Leadership Quarterly* **31**:3, 101302. [[Crossref](#)]
1337. Juan D. Montoro-Pons, Manuel Cuadrado-García. 2020. Music festivals as mediators and their influence on consumer awareness. *Poetics* **80**, 101424. [[Crossref](#)]
1338. Brenda Van Coppenolle. 2020. How do political elites persist? Political selection, political inequality and empirical historical research. *French Politics* **18**:1-2, 175-188. [[Crossref](#)]
1339. James Cust, Torfinn Harding. 2020. Institutions and the Location of Oil Exploration. *Journal of the European Economic Association* **18**:3, 1321-1350. [[Crossref](#)]
1340. Sonja Lück, Benjamin Balsmeier, Florian Seliger, Lee Fleming. 2020. Early Disclosure of Invention and Reduced Duplication: An Empirical Test. *Management Science* **66**:6, 2677-2685. [[Crossref](#)]
1341. Andrew McEachin, Thurston Domina, Andrew Penner. 2020. Heterogeneous Effects of Early Algebra across California Middle Schools. *Journal of Policy Analysis and Management* **39**:3, 772-800. [[Crossref](#)]
1342. Rebecca M. Myerson, Reginald D. Tucker-Seeley, Dana P. Goldman, Darius N. Lakdawalla. 2020. Does Medicare Coverage Improve Cancer Detection and Mortality Outcomes?. *Journal of Policy Analysis and Management* **39**:3, 577-604. [[Crossref](#)]
1343. Alan de Brauw, Amber Peterman. 2020. Can conditional cash transfers improve maternal health care? Evidence from El Salvador's Comunidades Solidarias Rurales program. *Health Economics* **29**:6, 700-715. [[Crossref](#)]
1344. Zekai He, Jingjing Ye, Xiuzhen Shi. 2020. Housing wealth and household consumption in urban China. *Urban Studies* **57**:8, 1714-1732. [[Crossref](#)]
1345. Sen Zeng, Satoru Shimokawa. 2020. The effect of health information on smoking intensity: does addiction matter?. *Applied Economics* **52**:22, 2408-2426. [[Crossref](#)]

1346. Blane D. Lewis. 2020. How do mayors get elected? The causal effects of pre-electoral coalitions on mayoral election outcomes in Indonesia. *Local Government Studies* 46:3, 394-413. [[Crossref](#)]
1347. Steven Dieterle, Otávio Bartalotti, Quentin Brummet. 2020. Revisiting the Effects of Unemployment Insurance Extensions on Unemployment: A Measurement-Error-Corrected Regression Discontinuity Approach. *American Economic Journal: Economic Policy* 12:2, 84-114. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1348. Pauline Leung, Christopher O'Leary. 2020. Unemployment Insurance and Means-Tested Program Interactions: Evidence from Administrative Data. *American Economic Journal: Economic Policy* 12:2, 159-192. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1349. Tobias Müller, Stefan Boes. 2020. Disability insurance benefits and labor supply decisions: evidence from a discontinuity in benefit awards. *Empirical Economics* 58:5, 2513-2544. [[Crossref](#)]
1350. Joann L. Moore, Ty M. Cruce. 2020. The Impact of an Interest-Major Fit Signal on College Major Certainty. *Research in Higher Education* 61:3, 383-407. [[Crossref](#)]
1351. Ylenia Brilli, Brandon J. Restrepo. 2020. Birth weight, neonatal care, and infant mortality: Evidence from macrosomic babies. *Economics & Human Biology* 37, 100825. [[Crossref](#)]
1352. Renke Schmacker, Sinne Smed. 2020. Do prices and purchases respond similarly to soft drink tax increases and cuts?. *Economics & Human Biology* 37, 100864. [[Crossref](#)]
1353. Peter Eibich, Thomas Siedler. 2020. Retirement, intergenerational time transfers, and fertility. *European Economic Review* 124, 103392. [[Crossref](#)]
1354. Wei Zhou, Wanying Rao, Shuai Lu. 2020. Market stability analysis after the circuit breaker for the CSI 300 energy index. *Finance Research Letters* 34, 101348. [[Crossref](#)]
1355. Chao Ma. 2020. Per-customer quantity limit and price discrimination: Evidence from the U.S. residential mortgage market. *International Journal of Industrial Organization* 70, 102588. [[Crossref](#)]
1356. Jie Gong, Yi Lu, Huihua Xie. 2020. The average and distributional effects of teenage adversity on long-term health. *Journal of Health Economics* 71, 102288. [[Crossref](#)]
1357. Maoyong Fan, Guojun He, Maigeng Zhou. 2020. The winter choke: Coal-Fired heating, air pollution, and mortality in China. *Journal of Health Economics* 71, 102316. [[Crossref](#)]
1358. Yaoyao Li, Daolin Zhu, Jiangmeng Zhao, Xiaodong Zheng, Lanyue Zhang. 2020. Effect of the housing purchase restriction policy on the Real Estate Market: Evidence from a typical suburb of Beijing, China. *Land Use Policy* 94, 104528. [[Crossref](#)]
1359. Bo Zhao, Rosemarie Ziedonis. 2020. State governments as financiers of technology startups: Evidence from Michigan's R&D loan program. *Research Policy* 49:4, 103926. [[Crossref](#)]
1360. Stefano H. Baruffaldi, Markus Simeth. 2020. Patents and knowledge diffusion: The effect of early disclosure. *Research Policy* 49:4, 103927. [[Crossref](#)]
1361. Ingrid Kristine Folgerø, Torfinn Harding, Benjamin S. Westby. 2020. Going fast or going green? Evidence from environmental speed limits in Norway. *Transportation Research Part D: Transport and Environment* 82, 102261. [[Crossref](#)]
1362. Wael Moussa, Carina Omoeva. 2020. The Long-Term Effects of Universal Primary Education: Evidence from Ethiopia, Malawi, and Uganda. *Comparative Education Review* 64:2, 179-206. [[Crossref](#)]

1363. Yang He, Otávio Bartalotti. 2020. Wild bootstrap for fuzzy regression discontinuity designs: obtaining robust bias-corrected confidence intervals. *The Econometrics Journal* **23**:2, 211-231. [[Crossref](#)]
1364. Sebastian Calonico, Matias D Cattaneo, Max H Farrell. 2020. Optimal bandwidth choice for robust bias-corrected inference in regression discontinuity designs. *The Econometrics Journal* **23**:2, 192-210. [[Crossref](#)]
1365. Christian Ochsner, Felix Roesel. 2020. Migrating Extremists. *The Economic Journal* **130**:628, 1135-1172. [[Crossref](#)]
1366. Thomas Fujiwara, Carlos Sanz. 2020. Rank Effects in Bargaining: Evidence from Government Formation. *The Review of Economic Studies* **87**:3, 1261-1295. [[Crossref](#)]
1367. PREETIKA JOSHI. 2020. Does Private Country-by-Country Reporting Deter Tax Avoidance and Income Shifting? Evidence from BEPS Action Item 13. *Journal of Accounting Research* **58**:2, 333-381. [[Crossref](#)]
1368. Gustavo Canavire-Bacarreza, Alberto Chong, Fernando Ríos-Avila, Mónica Yáñez-Pagans. 2020. Will elders provide for their grandchildren? Unconditional cash transfers and educational expenditures in Bolivia. *Review of Development Economics* **24**:2, 424-447. [[Crossref](#)]
1369. Zhe Fang, Chuanbo Chen, Hanyu Wang, Kun Tang. 2020. Association Between Fetal Exposure to Famine and Anthropometric Measures in Adulthood: A Regression Discontinuity Approach. *Obesity* **28**:5, 962-969. [[Crossref](#)]
1370. Woon Sau Leung, Jing Li, Jiong Sun. 2020. Labor Unionization and Supply-Chain Partners' Performance. *Production and Operations Management* **29**:5, 1325-1353. [[Crossref](#)]
1371. Daniel Masterson, M. Christian Lehmann. 2020. Refugees, Mobilization, and Humanitarian Aid: Evidence from the Syrian Refugee Crisis in Lebanon. *Journal of Conflict Resolution* **64**:5, 817-843. [[Crossref](#)]
1372. Federico Quaresima, Raffaella Santolini, Fabio Fiorillo. 2020. Political affiliation in post-parliamentary careers in Italian public enterprises. *German Economic Review* **21**:1, 35-64. [[Crossref](#)]
1373. . General Analytic Considerations 369-482. [[Crossref](#)]
1374. Reagan Mozer, Donald B. Rubin, Jose Zubizarreta. Statistical Inference for Causal Effects in Clinical Psychology 415-425. [[Crossref](#)]
1375. Jill Caviglia-Harris. 2020. Using the process approach to teach writing in economics. *The Journal of Economic Education* **51**:2, 116-129. [[Crossref](#)]
1376. Maja Weemes Grøtting, Otto Sevaldson Lillebø. 2020. Health effects of retirement: evidence from survey and register data. *Journal of Population Economics* **33**:2, 671-704. [[Crossref](#)]
1377. Michael Bahrs, Mathias Schumann. 2020. Unlucky to be young? The long-term effects of school starting age on smoking behavior and health. *Journal of Population Economics* **33**:2, 555-600. [[Crossref](#)]
1378. Sade Bonilla. 2020. The dropout effects of career pathways: Evidence from California. *Economics of Education Review* **75**, 101972. [[Crossref](#)]
1379. Junxue Jia, Guangrong Ma, Cong Qin, Liyan Wang. 2020. Place-based policies, state-led industrialisation, and regional development: Evidence from China's Great Western Development Programme. *European Economic Review* **123**, 103398. [[Crossref](#)]

1380. Canh Thien Dang, Trudy Owens. 2020. Does transparency come at the cost of charitable services? Evidence from investigating British charities. *Journal of Economic Behavior & Organization* **172**, 314-343. [[Crossref](#)]
1381. Ajin Lee. 2020. How do hospitals respond to managed care? Evidence from at-risk newborns. *Journal of Public Economics* **184**, 104130. [[Crossref](#)]
1382. Pornanong Budsaratragoon, Suntharee Lhaopadchan, Steen Thomsen. 2020. Community and compensation: Director remuneration in Thailand. *Research in International Business and Finance* **52**, 101124. [[Crossref](#)]
1383. Ming Zhang, Cheng Shan, Wenwen Wang, Jingru Pang, Shu Guo. 2020. Do driving restrictions improve air quality: Take Beijing-Tianjin for example?. *Science of The Total Environment* **712**, 136408. [[Crossref](#)]
1384. Simiao Chen, Pascal Geldsetzer, Till Bärnighausen. 2020. The causal effect of retirement on stress in older adults in China: A regression discontinuity study. *SSM - Population Health* **10**, 100462. [[Crossref](#)]
1385. Qiang Zhang, Zhongqi Zheng, Zheng Wan, Shiyuan Zheng. 2020. Does emission control area policy reduce sulfur dioxides concentration in Shanghai?. *Transportation Research Part D: Transport and Environment* **81**, 102289. [[Crossref](#)]
1386. Olof Rosenqvist. 2020. Rising to the Occasion? Youth Political Knowledge and the Voting Age. *British Journal of Political Science* **50**:2, 781-792. [[Crossref](#)]
1387. Katrina Kosec, Tewodaj Mogues. 2020. Decentralization Without Democracy. *World Politics* **72**:2, 165-213. [[Crossref](#)]
1388. Diana Contreras Suarez, Lisa Cameron. 2020. Conditional Cash Transfers: Do They Result in More Patient Choices and Increased Educational Aspirations?. *Economic Development and Cultural Change* **68**:3, 729-761. [[Crossref](#)]
1389. Jerome Schafer, John B. Holbein. 2020. When Time Is of the Essence: A Natural Experiment on How Time Constraints Influence Elections. *The Journal of Politics* **82**:2, 418-432. [[Crossref](#)]
1390. Justin de Benedictis-Kessner, Christopher Warshaw. 2020. Politics in Forgotten Governments: The Partisan Composition of County Legislatures and County Fiscal Policies. *The Journal of Politics* **82**:2, 460-475. [[Crossref](#)]
1391. Tom Van Ourti, Nicolas Bouckaert. 2020. The Dutch influenza vaccination policy and medication use, outpatient visits, hospitalization and mortality at age 65. *European Journal of Public Health* **30**:2, 275-280. [[Crossref](#)]
1392. Emily Rauscher. 2020. Delayed Benefits: Effects of California School District Bond Elections on Achievement by Socioeconomic Status. *Sociology of Education* **93**:2, 110-131. [[Crossref](#)]
1393. Jacquelyn Pless, Cameron Hepburn, Niall Farrell. 2020. Bringing rigour to energy innovation policy evaluation. *Nature Energy* **5**:4, 284-290. [[Crossref](#)]
1394. C. S. Agnes Cheng, Weihang Sun, Kangtao Ye, Ning Zhang. 2020. The Effect of Auditing on Promoting Exports: Evidence from Private Firms in Emerging Markets. *Management Science* **66**:4, 1692-1716. [[Crossref](#)]
1395. Adam C. Sales, Ben B. Hansen. 2020. Limitless Regression Discontinuity. *Journal of Educational and Behavioral Statistics* **45**:2, 143-174. [[Crossref](#)]



1396. Jaynise M. Pérez Valentín, Marc F. Müller. 2020. Impact of Hurricane Maria on Beach Erosion in Puerto Rico: Remote Sensing and Causal Inference. *Geophysical Research Letters* 47:6. . [\[Crossref\]](#)
1397. Margaret Walls, Patrick Lee, Matthew Ashenfarb. 2020. National monuments and economic growth in the American West. *Science Advances* 6:12. . [\[Crossref\]](#)
1398. Niklas Potrafke, Felix Roesel. 2020. The urban–rural gap in healthcare infrastructure: does government ideology matter?. *Regional Studies* 54:3, 340–351. [\[Crossref\]](#)
1399. Stelios Michalopoulos, Elias Papaioannou. 2020. Historical Legacies and African Development. *Journal of Economic Literature* 58:1, 53–128. [\[Abstract\]](#) [\[View PDF article\]](#) [\[PDF with links\]](#)
1400. Sebastian Martinez, Michelle Pérez, Luis Tejerina, Anastasiya Yarygina. 2020. Pensions for the Poor: the Effects of Non-contributory Pensions in El Salvador. *Journal of Economics, Race, and Policy* 3:1, 96–115. [\[Crossref\]](#)
1401. Julie Lassébie. 2020. Gender quotas and the selection of local politicians: Evidence from French municipal elections. *European Journal of Political Economy* 62, 101842. [\[Crossref\]](#)
1402. Cheng Huang, Shiyang Zhang, Qingguo Zhao. 2020. The early bird catches the worm? School entry cutoff and the timing of births. *Journal of Development Economics* 143, 102386. [\[Crossref\]](#)
1403. Meng Tu, Bing Zhang, Jianhua Xu, Fangwen Lu. 2020. Mass media, information and demand for environmental quality: Evidence from the “Under the Dome”. *Journal of Development Economics* 143, 102402. [\[Crossref\]](#)
1404. Han Li, Jiangyi Li, Yi Lu, Huihua Xie. 2020. Housing wealth and labor supply: Evidence from a regression discontinuity design. *Journal of Public Economics* 183, 104139. [\[Crossref\]](#)
1405. Hyojung Lee, Raphael W. Bostic. 2020. Bank adaptation to neighborhood change: Mortgage lending and the Community Reinvestment Act. *Journal of Urban Economics* 116, 103211. [\[Crossref\]](#)
1406. Yan Song, Zhenran Li, Tingting Yang, Qing Xia. 2020. Does the expansion of the joint prevention and control area improve the air quality?—Evidence from China's Jing-Jin-Ji region and surrounding areas. *Science of The Total Environment* 706, 136034. [\[Crossref\]](#)
1407. Matthew Knepper. 2020. From the Fringe to the Fore: Labor Unions and Employee Compensation. *The Review of Economics and Statistics* 102:1, 98–112. [\[Crossref\]](#)
1408. Mauricio Avendano, Augustin de Coulon, Vahé Nafilyan. 2020. Does longer compulsory schooling affect mental health? Evidence from a British reform. *Journal of Public Economics* 183, 104137. [\[Crossref\]](#)
1409. Sander Kunst, Theresa Kuhn, Herman G van de Werfhorst. 2020. Does education decrease Euroscepticism? A regression discontinuity design using compulsory schooling reforms in four European countries. *European Union Politics* 21:1, 24–42. [\[Crossref\]](#)
1410. Angela Johnson. 2020. The Impact of English Learner Reclassification on High School Reading and Academic Progress. *Educational Evaluation and Policy Analysis* 42:1, 46–65. [\[Crossref\]](#)
1411. Maike Hohberg, Peter Pütz, Thomas Kneib. 2020. Treatment effects beyond the mean using distributional regression: Methods and guidance. *PLOS ONE* 15:2, e0226514. [\[Crossref\]](#)
1412. Attila Ambrus, Erica Field, Robert Gonzalez. 2020. Loss in the Time of Cholera: Long-Run Impact of a Disease Epidemic on the Urban Landscape. *American Economic Review* 110:2, 475–525. [\[Abstract\]](#) [\[View PDF article\]](#) [\[PDF with links\]](#)

1413. Natalie Bau, Jishnu Das. 2020. Teacher Value Added in a Low-Income Country. *American Economic Journal: Economic Policy* **12**:1, 62-96. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1414. Sarah R. Cohodes. 2020. The Long-Run Impacts of Specialized Programming for High-Achieving Students. *American Economic Journal: Economic Policy* **12**:1, 127-166. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1415. Lingyun He, Fang Yin, Deqing Wang, Xiaolei Yang, Fengmin Xie. 2020. Research on the relationship between energy consumption and air quality in the Yangtze River Delta of China: an empirical analysis based on 20 sample cities. *Environmental Science and Pollution Research* **27**:5, 4786-4798. [[Crossref](#)]
1416. Jost Sieweke, Simone Santoni. 2020. Natural experiments in leadership research: An introduction, review, and guidelines. *The Leadership Quarterly* **31**:1, 101338. [[Crossref](#)]
1417. Jin Feng, Qin Li, James P. Smith. 2020. Retirement effect on health status and health behaviors in urban China. *World Development* **126**, 104702. [[Crossref](#)]
1418. DANIEL M. THOMPSON. 2020. How Partisan Is Local Law Enforcement? Evidence from Sheriff Cooperation with Immigration Authorities. *American Political Science Review* **114**:1, 222-236. [[Crossref](#)]
1419. ADAM M. DYNES, JOHN B. HOLBEIN. 2020. Noisy Retrospection: The Effect of Party Control on Policy Outcomes. *American Political Science Review* **114**:1, 237-257. [[Crossref](#)]
1420. Katrina Kosec, Tewodaj Mogues. 2020. Public Investment Choices by Local and Central Governments. *The World Bank Economic Review* **34**:Supplement\_1, S52-S57. [[Crossref](#)]
1421. MARIT KLEMETSEN, KNUT EINAR ROSENDAHL, ANJA LUND JAKOBSEN. 2020. THE IMPACTS OF THE EU ETS ON NORWEGIAN PLANTS' ENVIRONMENTAL AND ECONOMIC PERFORMANCE. *Climate Change Economics* **11**:01, 2050006. [[Crossref](#)]
1422. Natalia Guerrero, Oswaldo Molina, Diego Winkelried. 2020. Conditional cash transfers, spillovers, and informal health care: Evidence from Peru. *Health Economics* **29**:2, 111-122. [[Crossref](#)]
1423. Murali Kuchibhotla, Peter F. Orazem, Sanjana Ravi. 2020. The scarring effects of youth joblessness in Sri Lanka. *Review of Development Economics* **24**:1, 269-287. [[Crossref](#)]
1424. Kazuya Masuda. 2020. Length of maternal schooling and children's risk of malaria infection: evidence from a natural experiment in Uganda. *BMJ Global Health* **5**:2, e001729. [[Crossref](#)]
1425. Claudia Berg, M. Shahe Emran. 2020. Microfinance and Vulnerability to Seasonal Famine in a Rural Economy: Evidence from Monga in Bangladesh. *The B.E. Journal of Economic Analysis & Policy* . [[Crossref](#)]
1426. Monica Morell, Ji Seung Yang, Yang Liu. 2020. Latent Variable Regression Discontinuity Design with Cluster Level Treatment Assignment. *Multivariate Behavioral Research* **55**:1, 146-146. [[Crossref](#)]
1427. Riccardo Crescenzi, Mara Giua. 2020. One or many Cohesion Policies of the European Union? On the differential economic impacts of Cohesion Policy across member states. *Regional Studies* **54**:1, 10-20. [[Crossref](#)]
1428. Dorota Murzyn. 2020. Smart growth in less developed regions – the role of EU structural funds on the example of Poland. *Innovation: The European Journal of Social Science Research* **33**:1, 96-113. [[Crossref](#)]
1429. Aleksandra Holod, Burhan Ogut, Iliana Brodziak de los Reyes, Heather E. Quick, Karen Manship. 2020. The effects of prekindergarten for Spanish-speaking dual language learners: Evidence from

- California's transitional kindergarten program. *Early Childhood Research Quarterly* **52**, 101-111. [[Crossref](#)]
1430. Blane D. Lewis, Hieu T.M. Nguyen. 2020. Assessing the causal impact of compulsory schooling policy in Indonesia. *International Journal of Educational Research* **104**, 101693. [[Crossref](#)]
1431. Dimitris Christelis, Dimitris Georgarakos, Anna Sanz-de-Galdeano. 2020. The impact of health insurance on stockholding: A regression discontinuity approach. *Journal of Health Economics* **69**, 102246. [[Crossref](#)]
1432. Nicholas A. Wright. 2020. Perform better, or else: Academic probation, public praise, and students decision-making. *Labour Economics* **62**, 101773. [[Crossref](#)]
1433. Tomi Kyrä, Hanna Pesola. 2020. Long-term effects of extended unemployment benefits for older workers. *Labour Economics* **62**, 101777. [[Crossref](#)]
1434. David Wuepper, Stefan Wimmer, Johannes Sauer. 2020. Is small family farming more environmentally sustainable? Evidence from a spatial regression discontinuity design in Germany. *Land Use Policy* **90**, 104360. [[Crossref](#)]
1435. Emma Zang. 2020. Spillover effects of a husband's retirement on a woman's health: Evidence from urban China. *Social Science & Medicine* **245**, 112684. [[Crossref](#)]
1436. Jesse D. Young, Alexander M. Evans, Jose M. Iniguez, Andrea Thode, Marc D. Meyer, Shaula J. Hedwall, Sarah McCaffrey, Patrick Shin, Ching-Hsun Huang. 2020. Effects of policy change on wildland fire management strategies: evidence for a paradigm shift in the western US?. *International Journal of Wildland Fire* **29**:10, 857. [[Crossref](#)]
1437. Juying Zeng, María Guijarro, Agustín Carrilero-Castillo. 2020. A regression discontinuity evaluation of the policy effects of environmental regulations. *Economic Research-Ekonomska Istraživanja* **33**:1, 2993-3016. [[Crossref](#)]
1438. Petra Persson. 2020. Social Insurance and the Marriage Market. *Journal of Political Economy* **128**:1, 252-300. [[Crossref](#)]
1439. Margherita Fort, Andrea Ichino, Giulio Zanella. 2020. Cognitive and Noncognitive Costs of Day Care at Age 0–2 for Children in Advantaged Families. *Journal of Political Economy* **128**:1, 158-205. [[Crossref](#)]
1440. Rita Ginja, Jenny Jans, Arizo Karimi. 2020. Parental Leave Benefits, Household Labor Supply, and Children's Long-Run Outcomes. *Journal of Labor Economics* **38**:1, 261-320. [[Crossref](#)]
1441. Kyle J. Caswell, John H. Goddeeris. 2020. Does Medicare Reduce Medical Debt?. *American Journal of Health Economics* **6**:1, 72-103. [[Crossref](#)]
1442. Hendrik Bessembinder, Jia Hao, Kuncheng Zheng. 2020. Liquidity Provision Contracts and Market Quality: Evidence from the New York Stock Exchange. *The Review of Financial Studies* **33**:1, 44-74. [[Crossref](#)]
1443. Ying-Chao Hung, George Michailidis, Horace PakHai Lok. 2020. Locating Infinite Discontinuities in Computer Experiments. *SIAM/ASA Journal on Uncertainty Quantification* **8**:2, 717-747. [[Crossref](#)]
1444. Sade Bonilla, Thomas S. Dee. 2020. The Effects of School Reform under NCLB Waivers: Evidence from Focus Schools in Kentucky. *Education Finance and Policy* **15**:1, 75-103. [[Crossref](#)]
1445. Art B. Owen, Hal Varian. 2020. Optimizing the tie-breaker regression discontinuity design. *Electronic Journal of Statistics* **14**:2. . [[Crossref](#)]

1446. Jessica Fong, Megan Hunter Antill. 2020. Can Facing the Truth Improve Outcomes? Effects of Information in Consumer Finance. *SSRN Electronic Journal* . [[Crossref](#)]
1447. Vicente Valentim, Elias Dinas. 2020. Does Party-System Fragmentation Affect the Quality of Democracy?. *SSRN Electronic Journal* . [[Crossref](#)]
1448. François Derrien, Alexandre Garel, Arthur Petit-Romec, Jean-Philippe Weisskopf. 2020. Online Reputation and Debt Capacity. *SSRN Electronic Journal* . [[Crossref](#)]
1449. Lucas Knust, David Oesch. 2020. On the Consequences of Mandatory CEO Pay Ratio Disclosure. *SSRN Electronic Journal* . [[Crossref](#)]
1450. Lilian K. Ng, Man Pham, Jing Yu. 2020. Labor Voice in Corporate Governance: Evidence From Opportunistic Insider Trading. *SSRN Electronic Journal* . [[Crossref](#)]
1451. Megan Hunter. 2020. Chasing Stars: Firms' Strategic Responses to Online Consumer Ratings. *SSRN Electronic Journal* . [[Crossref](#)]
1452. Marketa Rickley, Pavlina Kemp. 2020. The Effect of Video Lecture Design and Production Quality on Student Outcomes: A Quasi-Experiment with Implications for Online Teaching During the Covid-19 Pandemic. *SSRN Electronic Journal* . [[Crossref](#)]
1453. Alessio Mitra. 2020. Should You Want An Educated Mayor? Evidence from Close Elections in Italy. *SSRN Electronic Journal* . [[Crossref](#)]
1454. Clément de Chaisemartin. 2020. The BCG Vaccine Does not Protect against COVID-19. Evidence from a Natural Experiment in Sweden. *SSRN Electronic Journal* . [[Crossref](#)]
1455. Ruben Poblete-Cazenave. 2020. The Great Lockdown and Criminal Activity - Evidence from Bihar, India. *SSRN Electronic Journal* **100**. . [[Crossref](#)]
1456. Hernando Bayona Rodríguez, J. Sebastian Melo. 2020. Efecto de ingresar a la carrera docente oficial sobre el salario y la salud (The Effect to Be Admitted to Public Teacher Career on the Salaries and Health). *SSRN Electronic Journal* . [[Crossref](#)]
1457. Tatiana Komarova, Denis Nekipelov. 2020. Identification and Formal Privacy Guarantees. *SSRN Electronic Journal* **74**. . [[Crossref](#)]
1458. Pietro Santoleri, Andrea Mina, Alberto Di Minin, Irene Martelli. 2020. The Causal Effects of R&D Grants: Evidence from a Regression Discontinuity. *SSRN Electronic Journal* . [[Crossref](#)]
1459. Connor Dowd. 2020. Donuts and Distant LATEs: Derivative Bounds for RD Extrapolation. *SSRN Electronic Journal* **36**. . [[Crossref](#)]
1460. Sarmistha Pal. 2020. Dual Practice of Health Workers: Evidence from Indonesia. *SSRN Electronic Journal* **14**. . [[Crossref](#)]
1461. Yayan Satyakti. 2020. Do Human Restriction Mobility Policy in Indonesia Effectively Reduce the Spread of COVID-19. *SSRN Electronic Journal* . [[Crossref](#)]
1462. Kabir Dasgupta, Christopher Erwin, Alexander Plum. 2020. The Devil is in the Details: Identifying the Unbiased Link between Access to Alcohol and Criminal Behavior. *SSRN Electronic Journal* . [[Crossref](#)]
1463. Reo Takaku, Izumi Yokoyama. 2020. What School Closure Left in Its Wake: Contrasting Evidence Between Parents and Children from the First COVID-19 Outbreak. *SSRN Electronic Journal* . [[Crossref](#)]
1464. Liu Hao. 2020. Patent Citation Network Analysis. *SSRN Electronic Journal* . [[Crossref](#)]

1465. Ayako Wakano, Hiroyuki Yamada. 2020. Impact of Termination of Universal Primary Education on Lifelong Fertility and Child Educational Quality: Evidence From Kenya. *SSRN Electronic Journal* . [\[Crossref\]](#)
1466. Haiyan Yu, Yali Wang, Jying-Nan Wang, Ya-Ling Chiu, Hang Qiu, Mingyue Gao. 2020. Causal Effect of Honorary Titles on Physicians' Service Volumes in Online Health Communities: Retrospective Study. *Journal of Medical Internet Research* **22**:7, e18527. [\[Crossref\]](#)
1467. Emilio A. L. Gianicolo, Martin Eichler, Oliver Muensterer, Konstantin Strauch, Maria Blettner. 2020. Methods for Evaluating Causality in Observational Studies. *Deutsches Ärzteblatt international* . [\[Crossref\]](#)
1468. David Wuepper, Pasquale Borrelli, Robert Finger. 2020. Countries and the global rate of soil erosion. *Nature Sustainability* **3**:1, 51-55. [\[Crossref\]](#)
1469. David Reeb, Mariko Sakakibara, Ishtiaq P. Mahmood. Endogeneity in International Business Research 359-375. [\[Crossref\]](#)
1470. Suman Basuroy, Yongseok Kim, Davide Proserpio. 2020. Sleeping With Strangers: Estimating the Impact of Airbnb on the Local Economy. *SSRN Electronic Journal* **130**. . [\[Crossref\]](#)
1471. DuckKi Cho, Lyungmae Choi. 2020. Shadow Union in Local Labor Markets and Capital Structure. *SSRN Electronic Journal* **108**. . [\[Crossref\]](#)
1472. Guihua Wang. 2020. Stay at Home to Stay Safe: Effectiveness of Stay-at-Home Orders in Containing the COVID-19 Pandemic. *SSRN Electronic Journal* **105**. . [\[Crossref\]](#)
1473. Rebecca De Simone. 2020. Financial and Real Effects of Government Monitoring: Evidence From Commercial Bank Loans. *SSRN Electronic Journal* **131**. . [\[Crossref\]](#)
1474. Abhishek Ganguly, Arup Ganguly, Lin Ge, Chad J. Zutter. 2020. The Impact of Tightly Contested Governance Proposals on Firms' Narrative Disclosures: Evidence from a Regression-Discontinuity Design (RDD). *SSRN Electronic Journal* **39**. . [\[Crossref\]](#)
1475. Scott S. Wiltermuth, Timothy Gubler, Lamar Pierce. 2020. Anchoring on Historical Reference Points: How Round Number Prices from the Past Shape Future Negotiation Outcomes. *SSRN Electronic Journal* **16**. . [\[Crossref\]](#)
1476. Shinsuke Asakawa, Masaru Sasaki. 2020. Can Childcare Benefits Increase Maternal Employment? Evidence from Childcare Benefits Policy in Japan. *SSRN Electronic Journal* **38**. . [\[Crossref\]](#)
1477. Alex Pont-Grau, Yu-Hsiang Lei, Joel Z. E. Lim, Xing Xia. 2020. The Effect of Language Training on Immigrants' Integration: Does the Duration of Training Matter?. *SSRN Electronic Journal* **76**. . [\[Crossref\]](#)
1478. Chuanyi Guo, Xuening Wang, Chen Meng. 2020. Does the Early Bird Catch the Worm? Evidence and Interpretation on the Long-Term Impact of School Entry Age in China. *SSRN Electronic Journal* **27**. . [\[Crossref\]](#)
1479. Piotr Danisewicz, Steven R. G. Ongena. 2020. Fiscal transfers, local government, and entrepreneurship. *SSRN Electronic Journal* **27**. . [\[Crossref\]](#)
1480. Zach Raff, Jason M. Walter, Andrew Meyer. 2020. Federally Mandated but Locally Administered: Political Differences in Air Pollution Abatement Under the Clean Air Act. *SSRN Electronic Journal* **110**. . [\[Crossref\]](#)

1481. Giuseppe Cappelletti, Aurea Ponte Marques, Carmelo Salleo, Diego Vila Martín. 2020. How Do Banking Groups React to Macroprudential Policies? Cross-Border Spillover Effects of Higher Capital Buffers on Lending, Risk-Taking and Internal Markets. *SSRN Electronic Journal* **29**. . [[Crossref](#)]
1482. Chunming Meng. 2020. The Price Paid: Heuristic Thinking and Biased Reference Points in the Housing Market. *SSRN Electronic Journal* **61**. . [[Crossref](#)]
1483. Andreas Gerster, Stefan Lamp. 2020. Energy Tax Exemptions and Industrial Production. *SSRN Electronic Journal* **117**. . [[Crossref](#)]
1484. Raffi E. García. 2020. Plant Behavior & Equal Pay: The Effect on Female Employment, Capital Investments, & Productivity — A Difference-in-Discontinuities Design. *SSRN Electronic Journal* **94**. . [[Crossref](#)]
1485. Wooyong Jo, Sarang Sunder, Jeonghye Choi, Minakshi Trivedi. 2020. Protecting Consumers from Themselves: Assessing Consequences of Usage Restriction Laws on Online Game Usage and Spending. *Marketing Science* **39**:1, 117-133. [[Crossref](#)]
1486. John Kepler, Vic Naiker, Christopher R. Stewart. 2020. Stealth Acquisitions and Product Market Competition. *SSRN Electronic Journal* **55**. . [[Crossref](#)]
1487. Yen-Cheng Chang, Kevin Tseng, Chia-Yi Yen. 2020. Does Governance Travel Across Industries? A Mutual Fund Episode. *SSRN Electronic Journal* . [[Crossref](#)]
1488. Reda M. Moursli. 2020. The effects of board independence on busy directors and firm value: Evidence from regulatory changes in Sweden. *Corporate Governance: An International Review* **28**:1, 23-46. [[Crossref](#)]
1489. Hye-Sung Kim. 2020. Failed Policy? The Effects of Kenya's Education Reform: Use of Natural Experiment and Regression Discontinuity Design. *Social Science Quarterly* **101**:1, 406-419. [[Crossref](#)]
1490. Xia Si, Tammy Leonard. 2020. AGING OUT OF WOMEN INFANTS AND CHILDREN: AN INVESTIGATION OF THE COMPENSATION EFFECT OF PRIVATE NUTRITION ASSISTANCE PROGRAMS. *Economic Inquiry* **58**:1, 446-461. [[Crossref](#)]
1491. Martin Nordin, Gawain Heckley, Ulf-G. Gerdtham. 2020. IMPACT OF A TERTIARY ELIGIBILITY THRESHOLD ON TERTIARY EDUCATION AND EARNINGS: A DISCONTINUITY APPROACH. *Economic Inquiry* **58**:1, 401-424. [[Crossref](#)]
1492. Xinzheng Shi, Ming-ang Zhang. 2020. How does historical trauma affect political participation? Evidence from the send-down movement in China. *Economics of Transition and Institutional Change* **28**:1, 3-43. [[Crossref](#)]
1493. Xuan Tian, Yuanchen Yang. 2020. Are Passive Institutional Investors Engaged Monitors or Impatient Owners? Both!. *SSRN Electronic Journal* **69**. . [[Crossref](#)]
1494. Amanda Heitz, Youan WANG, Zigan Wang. 2020. The Power of the People: Labor Unions and Corporate Social Responsibility. *SSRN Electronic Journal* **25**. . [[Crossref](#)]
1495. Gonul Colak, Timo Korkeamaki, Niclas Meyer. 2020. ESG and CEO Turnover. *SSRN Electronic Journal* **62**. . [[Crossref](#)]
1496. John Duffy, Andreas Orland. 2020. Liquidity Constraints and Buffer Stock Savings: Theory and Experimental Evidence. *SSRN Electronic Journal* **5**. . [[Crossref](#)]
1497. Hyun Joong Im, Srinivasan Selvam, Kelvin Jui Keng Tan. 2020. Stock Liquidity and the Value of Innovation: Evidence from U.S. Patent Data. *SSRN Electronic Journal* **120**. . [[Crossref](#)]



1498. Ridwan Karim, Jeff Chan. 2020. Mayoral Party Identity and Social Distancing Behaviors in Brazil. *SSRN Electronic Journal* **103**. . [\[Crossref\]](#)
1499. Francois Degeorge, Giuseppe Pratobevera. 2020. Nepotism in IPOs: Consequences for Issuers and Investors. *SSRN Electronic Journal* **110**. . [\[Crossref\]](#)
1500. Manthos D. Delis, Fulvia Fringuellotti, Steven R. G. Ongena. 2020. Credit, Income and Inequality. *SSRN Electronic Journal* **94**. . [\[Crossref\]](#)
1501. Audra Boone, Hursit Celil, Seungjoon Oh, Srinivasan Selvam. 2020. The Effect of Institutional Investor Portfolio Diversification on Corporate Diversification. *SSRN Electronic Journal* **16**. . [\[Crossref\]](#)
1502. Marynia Kolak, Luc Anselin. 2020. A Spatial Perspective on the Econometrics of Program Evaluation. *International Regional Science Review* **43**:1-2, 128-153. [\[Crossref\]](#)
1503. Marco Alberto De Benedetto. 2019. Personal or Partisan Incumbency Advantage? Evidence from an Electoral Reform at the Local Level in Italy. *The B.E. Journal of Economic Analysis & Policy* **20**:1. . [\[Crossref\]](#)
1504. Aurélie Cassette, Étienne Farvaque. 2019. Le coût de la réforme des rythmes scolaires pour les communes. *Économie & prévision* n° **216**:2, 21-41. [\[Crossref\]](#)
1505. Stefanie Gaebler, Felix Roesel. 2019. Do direct elections matter? Quasi-experimental evidence from Germany. *International Tax and Public Finance* **26**:6, 1416-1445. [\[Crossref\]](#)
1506. Sarah Tahamont. 2019. The Effect of Facility Security Classification on Serious Rules Violation Reports in California Prisons: A Regression Discontinuity Design. *Journal of Quantitative Criminology* **35**:4, 767-796. [\[Crossref\]](#)
1507. Jacob Nielsen Arendt, Christophe Kolodziejczyk. 2019. The Effects of an Employment Bonus for Long-Term Social Assistance Recipients. *Journal of Labor Research* **40**:4, 412-427. [\[Crossref\]](#)
1508. Tianshu Chu, Qiang Wen. 2019. Does College Education Promote Entrepreneurship in China?. *Journal of Labor Research* **40**:4, 463-486. [\[Crossref\]](#)
1509. Jacqueline Doremus. 2019. Unintended impacts from forest certification: Evidence from indigenous Aka households in Congo. *Ecological Economics* **166**, 106378. [\[Crossref\]](#)
1510. Ellen Greaves, Luke Sibieta. 2019. Constrained optimisation? Teacher salaries, school resources and student achievement. *Economics of Education Review* **73**, 101924. [\[Crossref\]](#)
1511. María Lombardi. 2019. Is the remedy worse than the disease? The impact of teacher remediation on teacher and student performance in Chile. *Economics of Education Review* **73**, 101928. [\[Crossref\]](#)
1512. Andrea Bonfatti, Lorenzo Forni. 2019. Fiscal rules to tame the political budget cycle: Evidence from Italian municipalities. *European Journal of Political Economy* **60**, 101800. [\[Crossref\]](#)
1513. Asit Bhattacharyya, Md Lutfur Rahman. 2019. Mandatory CSR expenditure and firm performance. *Journal of Contemporary Accounting & Economics* **15**:3, 100163. [\[Crossref\]](#)
1514. Gabriel Natividad. 2019. Stunted firms: The long-term impacts of colonial taxation. *Journal of Financial Economics* **134**:3, 525-548. [\[Crossref\]](#)
1515. Michael Ratajczak, Natalie Gold, Simon Hailstone, Tim Chadborn. 2019. The effectiveness of repeating a social norm feedback intervention to high prescribers of antibiotics in general practice: a national regression discontinuity design. *Journal of Antimicrobial Chemotherapy* **74**:12, 3603-3610. [\[Crossref\]](#)

1516. Erin E. Smith. 2019. Are Antitakeover Amendments Good for Shareholders? Evidence from the Adoption of Antitakeover Provisions in the Post-SOX Era. *Quarterly Journal of Finance* **09**:04, 1950014. [[Crossref](#)]
1517. Jörg Mahlich, Rosarin Sruamsiri. 2019. Co-insurance and health care utilization in Japanese patients with rheumatoid arthritis: a discontinuity regression approach. *International Journal for Equity in Health* **18**:1. . [[Crossref](#)]
1518. Yang Wang, Benjamin F. Jones, Dashun Wang. 2019. Early-career setback and future career impact. *Nature Communications* **10**:1. . [[Crossref](#)]
1519. Eduard Calvo, Ruomeng Cui, Juan Camilo Serpa. 2019. Oversight and Efficiency in Public Projects: A Regression Discontinuity Analysis. *Management Science* **65**:12, 5651-5675. [[Crossref](#)]
1520. Jie Cao, Hao Liang, Xintong Zhan. 2019. Peer Effects of Corporate Social Responsibility. *Management Science* **65**:12, 5487-5503. [[Crossref](#)]
1521. Moshe A. Barach, Aseem Kaul, Ming D. Leung, Sibio Lu. 2019. Strategic Redundancy in the Use of Big Data: Evidence from a Two-Sided Labor Market. *Strategy Science* **4**:4, 298-322. [[Crossref](#)]
1522. Klaus Deininger, Songqing Jin, Shouying Liu, Ting Shao, Fang Xia. 2019. Property Rights Reform to Support China's Rural–Urban Integration: Village-Level Evidence from the Chengdu Experiment. *Oxford Bulletin of Economics and Statistics* **81**:6, 1214-1251. [[Crossref](#)]
1523. Pascal Jaupart, Lizzie Dipple, Stefan Dercon. 2019. Has Gavi lived up to its promise? Quasi-experimental evidence on country immunisation rates and child mortality. *BMJ Global Health* **4**:6, e001789. [[Crossref](#)]
1524. Xiao Liu, Dokyun Lee, Kannan Srinivasan. 2019. Large-Scale Cross-Category Analysis of Consumer Review Content on Sales Conversion Leveraging Deep Learning. *Journal of Marketing Research* **56**:6, 918-943. [[Crossref](#)]
1525. Matias D. Cattaneo, Nicolás Idrobo, Rocío Titiunik. A Practical Introduction to Regression Discontinuity Designs **36**, . [[Crossref](#)]
1526. Jiexin Wang, Xue Han, Emily J. Huang, Christopher Yost-Bremm. 2019. Abnormal trading around common factor pricing models. *Review of Behavioral Finance* **12**:4, 317-334. [[Crossref](#)]
1527. Rasyad A. Parinduri. 2019. Does education increase political participation? Evidence from Indonesia. *Education Economics* **27**:6, 645-657. [[Crossref](#)]
1528. Naimi Johansson, Niklas Jakobsson, Mikael Svensson. 2019. Effects of primary care cost-sharing among young adults: varying impact across income groups and gender. *The European Journal of Health Economics* **20**:8, 1271-1280. [[Crossref](#)]
1529. M. Christian Lehmann, Hellen Matarazzo. 2019. Voters' response to in-kind transfers: Quasi-experimental evidence from prescription drug cost-sharing in Brazil. *Economics Letters* **184**, 108614. [[Crossref](#)]
1530. Andrew Bird, Stephen A. Karolyi, Thomas G. Ruchti. 2019. Understanding the “numbers game”. *Journal of Accounting and Economics* **68**:2-3, 101242. [[Crossref](#)]
1531. Nishith Prakash, Marc Rockmore, Yogesh Uppal. 2019. Do criminally accused politicians affect economic outcomes? Evidence from India. *Journal of Development Economics* **141**, 102370. [[Crossref](#)]
1532. Ying Bai. 2019. Farewell to confucianism: The modernizing effect of dismantling China's imperial examination system. *Journal of Development Economics* **141**, 102382. [[Crossref](#)]

1533. Mark Borgschulte, Jacob Vogler. 2019. Run for your life? The effect of close elections on the life expectancy of politicians. *Journal of Economic Behavior & Organization* **167**, 18-32. [[Crossref](#)]
1534. Tobias Pfutze. 2019. Should program graduation be better targeted? The other schooling outcomes of Mexico's Oportunidades. *World Development* **123**, 104625. [[Crossref](#)]
1535. Robert J. McGrath, Josh M. Ryan. 2019. Party Effects in State Legislative Committees. *Legislative Studies Quarterly* **44**:4, 553-592. [[Crossref](#)]
1536. Pamela Ban, Maxwell Palmer, Benjamin Schneer. 2019. From the Halls of Congress to K Street: Government Experience and its Value for Lobbying. *Legislative Studies Quarterly* **44**:4, 713-752. [[Crossref](#)]
1537. Margherita Scarlato, Giorgio d'Agostino. 2019. Cash Transfers, Labor Supply, and Gender Inequality: Evidence from South Africa. *Feminist Economics* **25**:4, 159-184. [[Crossref](#)]
1538. Zhongjun Qu, Jungmo Yoon. 2019. Uniform Inference on Quantile Effects under Sharp Regression Discontinuity Designs. *Journal of Business & Economic Statistics* **37**:4, 625-647. [[Crossref](#)]
1539. Markus Frölich, Martin Huber. 2019. Including Covariates in the Regression Discontinuity Design. *Journal of Business & Economic Statistics* **37**:4, 736-748. [[Crossref](#)]
1540. Louise Grogan, Fraser Summerfield. 2019. Government Transfers, Work, and Wellbeing: Evidence from the Russian Old-Age Pension. *Journal of Population Economics* **32**:4, 1247-1292. [[Crossref](#)]
1541. Gloria L. Bernal, Jeffrey Penney. 2019. Scholarships and student effort: Evidence from Colombia's Ser Pilo Paga program. *Economics of Education Review* **72**, 121-130. [[Crossref](#)]
1542. Bilge Erten, Pinar Keskin. 2019. Compulsory schooling for whom? The role of gender, poverty, and religiosity. *Economics of Education Review* **72**, 187-203. [[Crossref](#)]
1543. Allison Carnegie, Cyrus Samii. 2019. International Institutions and Political Liberalization: Evidence from the World Bank Loans Program. *British Journal of Political Science* **49**:4, 1357-1379. [[Crossref](#)]
1544. Hayley Fisher, Anna Zhu. 2019. The Effect of Changing Financial Incentives on Repartnering\*. *The Economic Journal* **129**:623, 2833-2866. [[Crossref](#)]
1545. Raphael Corbi, Elias Papaioannou, Paolo Surico. 2019. Regional Transfer Multipliers. *The Review of Economic Studies* **86**:5, 1901-1934. [[Crossref](#)]
1546. Zilong Zhang. 2019. Bank Interventions and Trade Credit: Evidence from Debt Covenant Violations. *Journal of Financial and Quantitative Analysis* **54**:5, 2179-2207. [[Crossref](#)]
1547. Pedro Silva Martins. 2019. The Microeconomic Impacts of Employee Representatives: Evidence from Membership Thresholds. *Industrial Relations: A Journal of Economy and Society* **58**:4, 591-622. [[Crossref](#)]
1548. Beatriz Magaloni, Alberto Díaz-Cayeros, Alexander Ruiz Euler. 2019. Public Good Provision and Traditional Governance in Indigenous Communities in Oaxaca, Mexico. *Comparative Political Studies* **52**:12, 1841-1880. [[Crossref](#)]
1549. Teemu Lyytikäinen, Janne Tukiainen. 2019. Are voters rational?. *European Journal of Political Economy* **59**, 230-242. [[Crossref](#)]
1550. Ján Palguta. 2019. Political representation and public contracting: Evidence from municipal legislatures. *European Economic Review* **118**, 411-431. [[Crossref](#)]
1551. Carlos Madeira. 2019. The impact of interest rate ceilings on households' credit access: Evidence from a 2013 Chilean legislation. *Journal of Banking & Finance* **106**, 166-179. [[Crossref](#)]

1552. David Perez-Reyna, Mauricio Villamizar-Villegas. 2019. Exchange rate effects of financial regulations. *Journal of International Money and Finance* **96**, 228-245. [[Crossref](#)]
1553. Chuanmin Zhao, Xi Qu, Shougui Luo. 2019. Impact of the InnoCom program on corporate innovation performance in China: Evidence from Shanghai. *Technological Forecasting and Social Change* **146**, 103-118. [[Crossref](#)]
1554. Declan T Bradley, Sarah E Allen, Helen Quinn, Brenda Bradley, Matthew Dolan. 2019. Social norm feedback reduces primary care antibiotic prescribing in a regression discontinuity study. *Journal of Antimicrobial Chemotherapy* **74**:9, 2797-2802. [[Crossref](#)]
1555. Fubing Su, Ming Li, Ran Tao. 2019. Transfer-Based Decentralization and Poverty Alleviation: Evidence from a Quasi-Experiment in China. *Publius: The Journal of Federalism* **49**:4, 694-718. [[Crossref](#)]
1556. Theo Zimmermann, Annali Casanueva Artis. Impact of Switching Bug Trackers: A Case Study on a Medium-Sized Open Source Project 13-23. [[Crossref](#)]
1557. Charles Cao, Matthew Gustafson, Raisa Velthuis. 2019. Index Membership and Small Firm Financing. *Management Science* **65**:9, 4156-4178. [[Crossref](#)]
1558. Brett Hollenbeck, Sridhar Moorthy, Davide Proserpio. 2019. Advertising Strategy in the Presence of Reviews: An Empirical Analysis. *Marketing Science* **38**:5, 793-811. [[Crossref](#)]
1559. Erica Raimondi, Loris Vergolini. 2019. Everyone in school: The effects of compulsory schooling age on drop-out and completion rates. *European Journal of Education* **54**:3, 471-490. [[Crossref](#)]
1560. ELIZABETH BLANKESPOOR. 2019. The Impact of Information Processing Costs on Firm Disclosure Choice: Evidence from the XBRL Mandate. *Journal of Accounting Research* **57**:4, 919-967. [[Crossref](#)]
1561. Daphna Bassok, Thomas S. Dee, Scott Latham. 2019. The Effects of Accountability Incentives in Early Childhood Education. *Journal of Policy Analysis and Management* **38**:4, 838-866. [[Crossref](#)]
1562. Francesco Fasani, Giovanni Mastrobuoni, Emily G. Owens, Paolo Pinotti. Does Immigration Increase Crime? **21**, . [[Crossref](#)]
1563. Yi Lu, Jin Wang, Lianming Zhu. 2019. Place-Based Policies, Creation, and Agglomeration Economies: Evidence from China's Economic Zone Program. *American Economic Journal: Economic Policy* **11**:3, 325-360. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1564. Harold D. Chiang, Yu-Chin Hsu, Yuya Sasaki. 2019. Robust uniform inference for quantile treatment effects in regression discontinuity designs. *Journal of Econometrics* **211**:2, 589-618. [[Crossref](#)]
1565. Anderson Frey. 2019. Cash transfers, clientelism, and political enfranchisement: Evidence from Brazil. *Journal of Public Economics* **176**, 1-17. [[Crossref](#)]
1566. María Pérez-Urdiales, Kenneth A. Baerenklau. 2019. Learning to live within your (water) budget: Evidence from allocation-based rates. *Resource and Energy Economics* **57**, 205-221. [[Crossref](#)]
1567. Laurent Bach, Daniel Metzger. 2019. How Close Are Close Shareholder Votes?. *The Review of Financial Studies* **32**:8, 3183-3214. [[Crossref](#)]
1568. Charlie L. Chen, Shujing Lan, Qian Liu. 2019. Air pollution and football players' performance: an empirical test with regression discontinuity designs. *The Journal of Sports Medicine and Physical Fitness* **59**:8. . [[Crossref](#)]

1569. Yasi'n Kürşat Önder, Mrittika Shamsuddin. 2019. Heterogeneous Treatment Under Regression Discontinuity Design: Application to Female High School Enrolment. *Oxford Bulletin of Economics and Statistics* **81**:4, 744-767. [[Crossref](#)]
1570. Metin Bulus, Nianbo Dong. 2019. Bound Constrained Optimization of Sample Sizes Subject to Monetary Restrictions in Planning Multilevel Randomized Trials and Regression Discontinuity Studies. *The Journal of Experimental Education* **14**, 1-23. [[Crossref](#)]
1571. Simiao Chen, Nikkil Sudharsanan, Feng Huang, Yuanli Liu, Pascal Geldsetzer, Till Bärnighausen. 2019. Impact of community based screening for hypertension on blood pressure after two years: regression discontinuity analysis in a national cohort of older adults in China. *BMJ* **39**, 14064. [[Crossref](#)]
1572. Mariana Marchionni, Emmanuel Vazquez. 2019. The causal effect of an extra year of schooling on skills and knowledge in Latin America. Evidence from PISA. *Assessment in Education: Principles, Policy & Practice* **26**:4, 489-515. [[Crossref](#)]
1573. Chang Liu, Guangrong Ma. 2019. Are Place-Based Policies Always a Blessing? Evidence from China's National Poor County Programme. *The Journal of Development Studies* **55**:7, 1603-1615. [[Crossref](#)]
1574. Andrew Gelman, Guido Imbens. 2019. Why High-Order Polynomials Should Not Be Used in Regression Discontinuity Designs. *Journal of Business & Economic Statistics* **37**:3, 447-456. [[Crossref](#)]
1575. Julia Schulte-Cloos. 2019. The effect of European Parliament elections on political socialisation. *Journal of European Public Policy* **26**:7, 1094-1111. [[Crossref](#)]
1576. Roshun Sankaran, Devraj Sukul, Ushapoorna Nuliyalu, Baris Gulseren, Tedi A Engler, Emily Arntson, Hanna Zlotnick, Justin B Dimick, Andrew M Ryan. 2019. Changes in hospital safety following penalties in the US Hospital Acquired Condition Reduction Program: retrospective cohort study. *BMJ* 14109. [[Crossref](#)]
1577. Thomas Buser, Huaiping Yuan. 2019. Do Women Give Up Competing More Easily? Evidence from the Lab and the Dutch Math Olympiad. *American Economic Journal: Applied Economics* **11**:3, 225-252. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1578. Jeffrey T. Denning, Benjamin M. Marx, Lesley J. Turner. 2019. ProPelled: The Effects of Grants on Graduation, Earnings, and Welfare. *American Economic Journal: Applied Economics* **11**:3, 193-224. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1579. Michaela Slotwinski, Alois Stutzer. 2019. The deterrent effect of an anti-minaret vote on foreigners' location choices. *Journal of Population Economics* **32**:3, 1043-1095. [[Crossref](#)]
1580. Elliott Fan, Hsienming Lien, Ching-to Albert Ma. 2019. Uterus at a price: Disability insurance and hysterectomy. *Journal of Health Economics* **66**, 1-17. [[Crossref](#)]
1581. Andrew G. Meyer. 2019. Elite Influence on Climate Change Skepticism: Evidence from Close Gubernatorial Elections. *Journal of the Association of Environmental and Resource Economists* **6**:4, 783-822. [[Crossref](#)]
1582. Bart Cockx, Eva Van Belle. 2019. Waiting longer before claiming, and activating youth: no point?. *International Journal of Manpower* **40**:4, 658-687. [[Crossref](#)]
1583. Mate Baranyi, Roland Molontay. Effect of Mathematics Remediation on Academic Achievement – A Regression Discontinuity Approach 29-33. [[Crossref](#)]

1584. Sebastian Calonico, Matias D. Cattaneo, Max H. Farrell, Rocío Titiunik. 2019. Regression Discontinuity Designs Using Covariates. *The Review of Economics and Statistics* **101**:3, 442-451. [[Crossref](#)]
1585. Ashley E. Larsen, Kyle Meng, Bruce E. Kendall. 2019. Causal analysis in control–impact ecological studies with observational data. *Methods in Ecology and Evolution* **10**:7, 924-934. [[Crossref](#)]
1586. Dalia Marciukaityte. 2019. LABOR LAWS AND CORPORATE INVESTMENT. *Journal of Financial Research* **42**:2, 413-444. [[Crossref](#)]
1587. Mohammad Mahbubur Rahman, Saseendran Pallikadavath, Rabeya Khatoon. 2019. Does Shorter Postnatal Hospital Stay Lead to Postdischarge Complications? An Instrumental Variables Approach. *Journal of International Development* **31**:5, 432-471. [[Crossref](#)]
1588. Lukas Fervers. 2019. Economic miracle, political disaster? Political consequences of Hartz IV. *Journal of European Social Policy* **29**:3, 411-427. [[Crossref](#)]
1589. Ken Ochieng' Opalo. Legislative Development in Africa **65**, . [[Crossref](#)]
1590. Laura Dague, Joanna N Lahey. 2019. Causal Inference Methods: Lessons from Applied Microeconomics. *Journal of Public Administration Research and Theory* **29**:3, 511-529. [[Crossref](#)]
1591. Manxiu Ning, Weiping Liu, Jinquan Gong, Xudong Liu. 2019. Does the New Rural Pension Scheme crowd out private transfers from children to parents? Empirical evidence from China. *China Agricultural Economic Review* **11**:2, 411-430. [[Crossref](#)]
1592. Federick Ngo. 2019. Fractions in College: How Basic Math Remediation Impacts Community College Students. *Research in Higher Education* **60**:4, 485-520. [[Crossref](#)]
1593. Blane D. Lewis. 2019. Legislature Size, Local Government Expenditure and Taxation, and Public Service Access in Indonesia. *Studies in Comparative International Development* **54**:2, 274-298. [[Crossref](#)]
1594. Hosung Sohn, Suk-Won Lee. 2019. Causal Impact of Having a College Degree on Women's Fertility: Evidence From Regression Kink Designs. *Demography* **56**:3, 969-990. [[Crossref](#)]
1595. Jesús Rodríguez-López, Yolanda Rebollo-Sanz, David Mesa-Ruiz. 2019. Hidden figures behind two-vehicle crashes: An assessment of the risk and external costs of drunk driving in Spain. *Accident Analysis & Prevention* **127**, 42-51. [[Crossref](#)]
1596. Brent J. Evans, Tuan D. Nguyen. 2019. Monetary substitution of loans, earnings, and need-based aid in postsecondary education: The impact of Pell Grant eligibility. *Economics of Education Review* **70**, 1-19. [[Crossref](#)]
1597. Felipe Barrera-Orsorio, Hernando Bayona-Rodríguez. 2019. Signaling or better human capital: Evidence from Colombia. *Economics of Education Review* **70**, 20-34. [[Crossref](#)]
1598. Alex Eble, Feng Hu. 2019. Does primary school duration matter? Evaluating the consequences of a large Chinese policy experiment. *Economics of Education Review* **70**, 61-74. [[Crossref](#)]
1599. Emanuele Bracco, Francesco Porcelli, Michela Redoano. 2019. Political competition, tax salience and accountability. Theory and evidence from Italy. *European Journal of Political Economy* **58**, 138-163. [[Crossref](#)]
1600. Blane D. Lewis, Adrianus Hendrawan. 2019. The impact of majority coalitions on local government spending, service delivery, and corruption in Indonesia. *European Journal of Political Economy* **58**, 178-191. [[Crossref](#)]



1601. Xiaoping He. 2019. China's electrification and rural labor: Analysis with fuzzy regression discontinuity. *Energy Economics* **81**, 650-660. [[Crossref](#)]
1602. Zuankuo Liu, Li Xin. 2019. Has China's Belt and Road Initiative promoted its green total factor productivity#——Evidence from primary provinces along the route. *Energy Policy* **129**, 360-369. [[Crossref](#)]
1603. Ching-Hung Chang, Sheng-Syan Chen, Yan-Shing Chen, Shu-Cing Peng. 2019. Commitment to build trust by socially responsible firms: Evidence from cash holdings. *Journal of Corporate Finance* **56**, 364-387. [[Crossref](#)]
1604. Yao Pan, Saurabh Singhal. 2019. Agricultural extension, intra-household allocation and malaria. *Journal of Development Economics* **139**, 157-170. [[Crossref](#)]
1605. Harold D. Chiang, Yuya Sasaki. 2019. Causal inference by quantile regression kink designs. *Journal of Econometrics* **210**:2, 405-433. [[Crossref](#)]
1606. Alan D Crane, Kevin Crotty, Sébastien Michenaud, Patricia Naranjo. 2019. The Causal Effects of Short-Selling Bans: Evidence from Eligibility Thresholds. *The Review of Asset Pricing Studies* **9**:1, 137-170. [[Crossref](#)]
1607. Paul Fenton Villar, Hugh Waddington. 2019. Within study comparisons and risk of bias in international development: Systematic review and critical appraisal. *Campbell Systematic Reviews* **15**:1-2. . [[Crossref](#)]
1608. Nilar Aung, Hoa-Thi-Minh Nguyen, Robert Sparrow. 2019. The Impact of Credit Policy on Rice Production in Myanmar. *Journal of Agricultural Economics* **70**:2, 426-451. [[Crossref](#)]
1609. Sara Geneletti, Federico Ricciardi, Aidan G. O'Keeffe, Gianluca Baio. 2019. Bayesian Modelling for Binary Outcomes in the Regression Discontinuity Design. *Journal of the Royal Statistical Society Series A: Statistics in Society* **182**:3, 983-1002. [[Crossref](#)]
1610. Michael Jankowski, Kamil Marcinkiewicz, Anna Gwiazda. 2019. The Effect of Electing Women on Future Female Candidate Selection Patterns: Findings from a Regression Discontinuity Design. *Politics & Gender* **15**:2, 182-210. [[Crossref](#)]
1611. Ana Isabel Morais, Inês Pinto. 2019. Pension plans assumptions: the case of discount rate. *Accounting Research Journal* **32**:1, 36-49. [[Crossref](#)]
1612. Oliwia Komada, Pawel Strzelecki, Joanna Tyrowicz. 2019. A regression discontinuity evaluation of reducing early retirement eligibility in Poland. *International Journal of Manpower* **40**:2, 286-303. [[Crossref](#)]
1613. Qiyang Zeng, Xiaohua Yu. 2019. Overweight and obesity standards and subjective well-being: Evidence from China. *Economics & Human Biology* **33**, 144-148. [[Crossref](#)]
1614. Simon Haenni. 2019. Ever tried. Ever failed. No matter? On the demotivational effect of losing in repeated competitions. *Games and Economic Behavior* **115**, 346-362. [[Crossref](#)]
1615. Raphael Bruce, Rafael Costa Lima. 2019. Compulsory voting and TV news consumption. *Journal of Development Economics* **138**, 165-179. [[Crossref](#)]
1616. Hyuncheol Bryant Kim, Suejin A. Lee, Wilfredo Lim. 2019. Knowing is not half the battle: Impacts of information from the National Health Screening Program in Korea. *Journal of Health Economics* **65**, 1-14. [[Crossref](#)]
1617. Nick Fabrin Nielsen. 2019. Sick of retirement?. *Journal of Health Economics* **65**, 133-152. [[Crossref](#)]

1618. Sarah Clifford. 2019. Taxing multinationals beyond borders: Financial and locational responses to CFC rules. *Journal of Public Economics* **173**, 44-71. [[Crossref](#)]
1619. Qunxiong Zhu, Shixiong Wang, Zhongsheng Chen, Yanlin He, Yuan Xu. A Virtual Sample Generation Method Based on Kernel Density Estimation and Copula Function for Imbalanced Classification 969-975. [[Crossref](#)]
1620. J Ignacio García-Pérez, Ioana Marinescu, Judit Vall Castello. 2019. Can Fixed-term Contracts Put Low Skilled Youth on a Better Career Path? Evidence from Spain. *The Economic Journal* **129**:620, 1693-1730. [[Crossref](#)]
1621. Guido Imbens, Stefan Wager. 2019. Optimized Regression Discontinuity Designs. *The Review of Economics and Statistics* **101**:2, 264-278. [[Crossref](#)]
1622. Jesús Crespo Cuaresma, Martin Heger. 2019. Deforestation and economic development: Evidence from national borders. *Land Use Policy* **84**, e347-e353. [[Crossref](#)]
1623. Christopher J. Curfman, John Kandrac. 2019. The costs and benefits of liquidity regulations: Lessons from an idle monetary policy tool. *Finance and Economics Discussion Series* **2019**:041. . [[Crossref](#)]
1624. Olof Rosenqvist. 2019. Are the Most Competitive Men More Resilient to Failures than the Most Competitive Women? Evidence from Professional Golf Tournaments\*. *Social Science Quarterly* **100**:3, 578-591. [[Crossref](#)]
1625. Nathalie Picarelli. 2019. There Is No Free House. *Journal of Urban Economics* **111**, 35-52. [[Crossref](#)]
1626. Peter Kajüter, Florian Klassmann, Martin Nienhaus. 2019. The Effect of Mandatory Quarterly Reporting on Firm Value. *The Accounting Review* **94**:3, 251-277. [[Crossref](#)]
1627. Lixiong Yang. 2019. Regression discontinuity designs with unknown state-dependent discontinuity points: estimation and testing. *Studies in Nonlinear Dynamics & Econometrics* **23**:2. . [[Crossref](#)]
1628. Benjamin D. Sommers, Anna L. Goldman, Dennis Lee, Arnold M. Epstein. 2019. Survey mode effects and insurance coverage estimates in the redesigned Gallup well-being index. *Health Services Research* **314**. . [[Crossref](#)]
1629. Sandria N. Tennant, Marlon R. Tracey. 2019. Corporate profitability and effective tax rate: the enforcement effect of large taxpayer units. *Accounting and Business Research* **49**:3, 342-361. [[Crossref](#)]
1630. Zhuan Pei, Jörn-Steffen Pischke, Hannes Schwandt. 2019. Poorly Measured Confounders are More Useful on the Left than on the Right. *Journal of Business & Economic Statistics* **37**:2, 205-216. [[Crossref](#)]
1631. John B Holbein, Hans J G Hassell. 2019. When Your Group Fails: The Effect of Race-Based Performance Signals on Citizen Voice and Exit. *Journal of Public Administration Research and Theory* **29**:2, 268-286. [[Crossref](#)]
1632. Aaron A. Elrod, Serkan Karadas, Katherine C. Theyson. 2019. The effect of gubernatorial political parties on monitoring and enforcement of federal environmental regulation: evidence from the Clean Water Act. *Environmental Economics and Policy Studies* **21**:2, 171-202. [[Crossref](#)]
1633. Claire Benny, Jodi M. Gatley, Marcos Sanches, Russell C. Callaghan. 2019. Assessing the impacts of minimum legal drinking age laws on police-reported violent victimization in Canada from 2009 to 2013. *Drug and Alcohol Dependence* **197**, 65-72. [[Crossref](#)]
1634. Alexia Lochmann, Hillel Rapoport, Biagio Speciale. 2019. The effect of language training on immigrants' economic integration: Empirical evidence from France. *European Economic Review* **113**, 265-296. [[Crossref](#)]

1635. Shuping Chen, Ying Huang, Ningzhong Li, Terry Shevlin. 2019. How does quasi-indexer ownership affect corporate tax planning?. *Journal of Accounting and Economics* **67**:2-3, 278-296. [[Crossref](#)]
1636. Steven Mello. 2019. More COPS, less crime. *Journal of Public Economics* **172**, 174-200. [[Crossref](#)]
1637. Emily A. Gallagher, Radhakrishnan Gopalan, Michal Grinstein-Weiss. 2019. The effect of health insurance on home payment delinquency: Evidence from ACA Marketplace subsidies. *Journal of Public Economics* **172**, 67-83. [[Crossref](#)]
1638. Christoph Sajons. 2019. Birthright citizenship and parental labor market integration. *Labour Economics* **57**, 1-22. [[Crossref](#)]
1639. Clara Welteke, Katharina Wrohlich. 2019. Peer effects in parental leave decisions. *Labour Economics* **57**, 146-163. [[Crossref](#)]
1640. Maarten Bosker, Harry Garretsen, Gerard Marlet, Clemens van Woerkens. 2019. Nether Lands: Evidence on the Price and Perception of Rare Natural Disasters. *Journal of the European Economic Association* **17**:2, 413-453. [[Crossref](#)]
1641. Jaakko Meriläinen. 2019. Single-Party Rule, Public Spending, and Political Rents: Evidence from Finnish Municipalities\*. *The Scandinavian Journal of Economics* **121**:2, 736-762. [[Crossref](#)]
1642. Angela Johnson. 2019. The Effects of English Learner Classification on High School Graduation and College Attendance. *AERA Open* **5**:2, 233285841985080. [[Crossref](#)]
1643. Thang Dang. 2019. Quasi-experimental evidence on the political impacts of education in Vietnam. *Education Economics* **27**:2, 207-221. [[Crossref](#)]
1644. David le Bris. 2019. Testing legal origins theory within France: Customary laws versus Roman code. *Journal of Comparative Economics* **47**:1, 1-30. [[Crossref](#)]
1645. Paweł Bukowski. 2019. How history matters for student performance. lessons from the Partitions of Poland. *Journal of Comparative Economics* **47**:1, 136-175. [[Crossref](#)]
1646. Shaozhen Han, Wanhai You, Shijing Nan. 2019. Zombie firms, external support and corporate environmental responsibility: Evidence from China. *Journal of Cleaner Production* **212**, 1499-1517. [[Crossref](#)]
1647. N. Meltem Daysal, Mircea Trandafir, Reyn van Ewijk. 2019. Low-risk isn't no-risk: Perinatal treatments and the health of low-income newborns. *Journal of Health Economics* **64**, 55-67. [[Crossref](#)]
1648. Marco Seeber, Mattia Cattaneo, Michele Meoli, Paolo Malighetti. 2019. Self-citations as strategic response to the use of metrics for career decisions. *Research Policy* **48**:2, 478-491. [[Crossref](#)]
1649. Ingo W.K. Kolodziej, Pilar García-Gómez. 2019. Saved by retirement: Beyond the mean effect on mental health. *Social Science & Medicine* **225**, 85-97. [[Crossref](#)]
1650. Haley A. Moss, Alexander Melamed, Jason D. Wright. 2019. Measuring cause-and-effect relationships without randomized clinical trials: Quasi-experimental methods for gynecologic oncology research. *Gynecologic Oncology* **152**:3, 533-539. [[Crossref](#)]
1651. Christopher Doss. 2019. How Much Regulation? A Fuzzy Regression Discontinuity Analysis of Student Literacy Skills in Prekindergarten vs. Transitional Kindergarten. *Education Finance and Policy* **14**:2, 178-209. [[Crossref](#)]
1652. Mahmoud A. A. Elsayed. 2019. Keeping Kids in School: The Long-Term Effects of Extending Compulsory Education. *Education Finance and Policy* **14**:2, 242-271. [[Crossref](#)]

1653. O. Cem Ozturk, Pradeep K. Chintagunta, Sriram Venkataraman. 2019. Consumer Response to Chapter 11 Bankruptcy: Negative Demand Spillover to Competitors. *Marketing Science* **38**:2, 296-316. [[Crossref](#)]
1654. José M. Alonso, Rhys Andrews, Vanesa Jorda. 2019. Do neighbourhood renewal programs reduce crime rates? Evidence from England. *Journal of Urban Economics* **110**, 51-69. [[Crossref](#)]
1655. Abraham Abebe Asfaw. 2019. The effect of prescription drug insurance on health behavior: Evidence from Medicare Part D. *Health Economics* **28**:3, 403-418. [[Crossref](#)]
1656. Ruxin Wu, Piao Hu. 2019. Does the “Miracle Drug” of Environmental Governance Really Improve Air Quality? Evidence from China’s System of Central Environmental Protection Inspections. *International Journal of Environmental Research and Public Health* **16**:5, 850. [[Crossref](#)]
1657. Matias D. Cattaneo, Rocio Titiunik, Gonzalo Vazquez-Bare. 2019. Power calculations for regression-discontinuity designs. *The Stata Journal: Promoting communications on statistics and Stata* **19**:1, 210-245. [[Crossref](#)]
1658. Arindrajit Dube, Laura Giuliano, Jonathan Leonard. 2019. Fairness and Frictions: The Impact of Unequal Raises on Quit Behavior. *American Economic Review* **109**:2, 620-663. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1659. Judson Boomhower. 2019. Drilling Like There’s No Tomorrow: Bankruptcy, Insurance, and Environmental Risk. *American Economic Review* **109**:2, 391-426. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1660. Weimin Zhao. 2019. Does health insurance promote people's consumption? New evidence from China. *China Economic Review* **53**, 65-86. [[Crossref](#)]
1661. Randall Akee, Liqiu Zhao, Zhong Zhao. 2019. Unintended consequences of China's new labor contract law on unemployment and welfare loss of the workers. *China Economic Review* **53**, 87-105. [[Crossref](#)]
1662. Joseph Palazzo, Roland Geyer, Richard Startz, Douglas G. Steigerwald. 2019. Causal inference for quantifying displaced primary production from recycling. *Journal of Cleaner Production* **210**, 1076-1084. [[Crossref](#)]
1663. Yu-Chin Hsu, Shu Shen. 2019. Testing treatment effect heterogeneity in regression discontinuity designs. *Journal of Econometrics* **208**:2, 468-486. [[Crossref](#)]
1664. Minke Remmerswaal, Jan Boone, Michiel Bijlsma, Rudy Douven. 2019. Cost-sharing design matters: A comparison of the rebate and deductible in healthcare. *Journal of Public Economics* **170**, 83-97. [[Crossref](#)]
1665. Sabrin Beg. 2019. Favoritism and flooding: Political alignment and allocation of irrigation water. *World Development* **114**, 175-195. [[Crossref](#)]
1666. Erik Lie, Tingting Que. 2019. Union Concessions following Asset Sales and Takeovers. *Journal of Financial and Quantitative Analysis* **54**:1, 393-424. [[Crossref](#)]
1667. Ingvil Gaarder. 2019. Incidence and Distributional Effects of Value Added Taxes. *The Economic Journal* **129**:618, 853-876. [[Crossref](#)]
1668. PIER DOMENICO TORTOLA, PAMELA PANSARDI. 2019. The charismatic leadership of the ECB presidency: A language-based analysis. *European Journal of Political Research* **58**:1, 96-116. [[Crossref](#)]

1669. Nathan Kettlewell, Oleg Yerokhin. 2019. Area-specific subsidies and population dynamics: Evidence from the Australian zone tax offset. *Papers in Regional Science* **98**:1, 451-477. [[Crossref](#)]
1670. Diana Lopez-Avila. 2019. Child discipline and social programs: evidence from Colombia. *Journal of Development Effectiveness* **11**:1, 15-42. [[Crossref](#)]
1671. Seth D. Zimmerman. 2019. Elite Colleges and Upward Mobility to Top Jobs and Top Incomes. *American Economic Review* **109**:1, 1-47. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1672. Henry G. Overman. Geographical Economics and Policy 1-16. [[Crossref](#)]
1673. Matteo Picchio, Stefano Staffolani. 2019. Does apprenticeship improve job opportunities? A regression discontinuity approach. *Empirical Economics* **56**:1, 23-60. [[Crossref](#)]
1674. Taotao Deng, Yukun Hu, Mulan Ma. 2019. Regional policy and tourism: A quasi-natural experiment. *Annals of Tourism Research* **74**, 1-16. [[Crossref](#)]
1675. Bianca Montrosse-Moorhead, Shaun M. Dougherty, Tamika P. La Salle, Jennie M. Weiner, Hannah M. Dostal. 2019. The overall and differential effects of a targeted prekindergarten program: Evidence from Connecticut. *Early Childhood Research Quarterly* **48**, 134-145. [[Crossref](#)]
1676. Bernardo Lara E., Sergio Toro M.. 2019. Tactical distribution in local funding: The value of an aligned mayor. *European Journal of Political Economy* **56**, 74-89. [[Crossref](#)]
1677. Gerben de Jong, Christiaan Behrens, Jos van Ommeren. 2019. Airline loyalty (programs) across borders: A geographic discontinuity approach. *International Journal of Industrial Organization* **62**, 251-272. [[Crossref](#)]
1678. Shubha Chakravarty, Mattias Lundberg, Plamen Nikolov, Juliane Zenker. 2019. Vocational training programs and youth labor market outcomes: Evidence from Nepal. *Journal of Development Economics* **136**, 71-110. [[Crossref](#)]
1679. SeEun Jung, Radu Vranceanu. 2019. Competitive compensation and subjective well-being: The effect of culture and gender. *Journal of Economic Psychology* **70**, 90-108. [[Crossref](#)]
1680. IDA DRANGE, NIKLAS JAKOBSSON. 2019. Incentive Effects of Cash Benefits among Young People. A Natural Experiment from Norway. *Journal of Social Policy* **48**:1, 107-125. [[Crossref](#)]
1681. Barış K. Yörük, Linna Xu. 2019. Impact of the ACA's Dependent Coverage Mandate on Health Insurance and Labor Market Outcomes Among Young Adults: Evidence from Regression Discontinuity Design. *Eastern Economic Journal* **45**:1, 58-86. [[Crossref](#)]
1682. Pedro Carneiro, Emanuela Galasso, Rita Ginja. 2019. Tackling Social Exclusion: Evidence from Chile. *The Economic Journal* **129**:617, 172-208. [[Crossref](#)]
1683. Man Pham, Jing Yu. 2019. Value-Relevance of Labor Unions: Evidence from Insider Trading. *SSRN Electronic Journal* . [[Crossref](#)]
1684. Ioana Elena Marinescu, Sofia Triantafyllou, Konrad Kording. 2019. Regression Discontinuity Threshold Optimization. *SSRN Electronic Journal* **6** . [[Crossref](#)]
1685. Elisa Long, Keith Chen, Ryne Rohla. 2019. Political Storms: Tracking Hurricane Evacuation Behavior Using Smartphone Data. *SSRN Electronic Journal* . [[Crossref](#)]
1686. Yashar Barardehi, Andrew Bird, Stephen A. Karolyi, Thomas Ruchti. 2019. Are Short Selling Restrictions Effective?. *SSRN Electronic Journal* . [[Crossref](#)]
1687. Myoung-jae Lee, Jin-Young Choi. 2019. Complier Effect for Difference-in-Differences Ratio in Fuzzy Regression Discontinuity with Double Running Variables. *SSRN Electronic Journal* . [[Crossref](#)]

1688. Chitra Jogani. 2019. Effect of Political Quotas on Candidate Attributes and the Provision of Public Goods. *SSRN Electronic Journal* . [[Crossref](#)]
1689. Atila Abdulkadiroglu, Joshua Angrist, Yusuke Narita, Parag A. Pathak. 2019. Breaking Ties: Regression Discontinuity Design Meets Market Design. *SSRN Electronic Journal* . [[Crossref](#)]
1690. Yang Wang, Benjamin F. Jones, Dashun Wang. 2019. Early-Career Setback and Future Career Impact. *SSRN Electronic Journal* . [[Crossref](#)]
1691. Moon Joon Kim. 2019. Unintended Impacts of the Abolition of Copayment on Outpatient Utilization in South Korea: Evidence from a Regression Discontinuity in Time. *SSRN Electronic Journal* . [[Crossref](#)]
1692. Sangeeta Bansal, Madhu Khanna, Joseph Sydlowski. 2019. Incentives for Corporate Social Responsibility in India: Mandate, Peer Pressure and Crowding-Out Effects. *SSRN Electronic Journal* 24. . [[Crossref](#)]
1693. Jacquelyn Pless. 2019. Are 'Complementary Policies' Substitutes? Evidence from R&D Subsidies in the UK. *SSRN Electronic Journal* 60. . [[Crossref](#)]
1694. Shikun Ke. 2019. The Effect of Institutional Ownership on Firm Compensation: A Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
1695. Jan Szczygielski, Lean Brummer, Hendrik Wolmarans. 2019. Underspecification of the Empirical Return-Factor Model and a Factor Analytic Augmentation as a Solution to Factor Omission. *SSRN Electronic Journal* 37. . [[Crossref](#)]
1696. Alessandra Garbero, Dieynab Diatta, Markus Olapade. 2019. IFAD Impact Assesment - Agricultural Value Chains Support Project (PAFA): Senegal. *SSRN Electronic Journal* . [[Crossref](#)]
1697. Jin-Young Choi, Myoung-jae Lee. 2019. Continuity of Running Variable Density Is Neither Necessary nor Sufficient for Regression Discontinuity Validity. *SSRN Electronic Journal* . [[Crossref](#)]
1698. Manthos D. Delis, Fulvia Fringuellotti, Steven R. G. Ongena. 2019. Credit and Income Inequality. *SSRN Electronic Journal* . [[Crossref](#)]
1699. Andrea Albanese, Corinna Ghirelli, Matteo Picchio. 2019. Timed to Say Goodbye: Does Unemployment Benefit Eligibility Affect Worker Layoffs?. *SSRN Electronic Journal* . [[Crossref](#)]
1700. Behnaz Bojd, Hema Yoganarasimhan. 2019. Star-Cursed Lovers: Role of Popularity Information in Online Dating. *SSRN Electronic Journal* . [[Crossref](#)]
1701. Zeyang Yu, Zeren Li. 2019. The Last Strike: Evaluating the Distortionary Effect of Career Incentives on Taxation in China. *SSRN Electronic Journal* 73. . [[Crossref](#)]
1702. Xu Xu. 2019. Incentivizing Corruption: An Unintended Consequence of Bureaucratic Promotions in China. *SSRN Electronic Journal* . [[Crossref](#)]
1703. Valentin Burg, Jan Keil. 2019. How Lending Decisions Affect Consumer Behavior. *SSRN Electronic Journal* . [[Crossref](#)]
1704. Sam Krumholz. 2019. Enforcing Compliance: The Case of Automatic License Suspensions. *SSRN Electronic Journal* . [[Crossref](#)]
1705. Yuyun Huang, Yuan George Shan, Joey (Wenling) Yang. 2019. Insider Profitability and Public Information: Evidence From the XBRL Mandate. *SSRN Electronic Journal* . [[Crossref](#)]
1706. Francis Annan. 2019. Moral Hazard in Insurance: Theory and Evidence from a Credit Reform in Ghana. *SSRN Electronic Journal* 27. . [[Crossref](#)]



1707. Manthos D. Delis, Iftekhar Hasan, Maria Iosifidi, Steven R. G. Ongena. 2019. Gender, Credit, and Firm Outcomes. *SSRN Electronic Journal* . [[Crossref](#)]
1708. Sabrina Howell, J. David Brown. 2019. Do Cash Windfalls Affect Wages? Evidence from R&D Grants to Small Firms. *SSRN Electronic Journal* **84**. . [[Crossref](#)]
1709. Gozde Corekcioglu. 2019. When the Boss Thinks a Woman's Place is Home: The Role of Religion in Employer Discrimination. *SSRN Electronic Journal* . [[Crossref](#)]
1710. Fatima Zahra Filali. 2019. Passive Aggressive: How Index Funds Vote on Corporate Governance Proposals. *SSRN Electronic Journal* . [[Crossref](#)]
1711. Luiz H Superti. 2019. Effects on Fertility of The Brazilian Cash Transfer Program: Evidence from a Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
1712. Ricardo Pasquini. 2019. Effects of Regulating the Brokerage Commission in the Rental Market: Evidence from Buenos Aires. *SSRN Electronic Journal* . [[Crossref](#)]
1713. Diego Escobari, Gary A. Hoover. 2019. Evo Morales and Electoral Fraud in Bolivia: A Natural Experiment Estimate. *SSRN Electronic Journal* . [[Crossref](#)]
1714. Divya Singh. 2019. Safer Elections, Women Turnout, and Political Outcomes. *SSRN Electronic Journal* . [[Crossref](#)]
1715. Alessio Romarri. 2019. Do Far-Right Mayors Increase the Probability of Hate Crimes? Evidence From Italy. *SSRN Electronic Journal* . [[Crossref](#)]
1716. Oznur Ozdamar, Eleftherios Giovanis, Burcu Özdaş. 2019. The Effect of Unemployment Benefits on Health, Living Standards and Unemployment in Turkey: Evidence from Structural Equation Modelling and Regression Discontinuity Design. *SSRN Electronic Journal* **94**. . [[Crossref](#)]
1717. Po-Chun Huang. 2019. Evaluating the Welfare Effects of Extending Unemployment Insurance Benefits: Evidence from Two Natural Experiments. *SSRN Electronic Journal* . [[Crossref](#)]
1718. Yeon Choi. 2019. The Role of Kidney Allocation Policy in Addressing Kidney Shortages. *SSRN Electronic Journal* . [[Crossref](#)]
1719. Viola Angelini, Michael Daly, Mirko Moro, Maria Navarro Paniagua, Elanor Sidman, Ian Walker, Matthew Weldon. 2019. The effect of the Winter Fuel Payment on household temperature and health: a regression discontinuity design study. *Public Health Research* **7**:1, 1-60. [[Crossref](#)]
1720. Jia Li, Viktor Todorov, George Tauchen. 2019. Jump factor models in large cross-sections. *Quantitative Economics* **10**:2, 419-456. [[Crossref](#)]
1721. Guzi Martin, Huber Peter, Mikula Štěpán. 2019. Old sins cast long shadows: The Long-term impact of the resettlement of the Sudetenland on residential. *MUNI ECON Working Papers* **126**:7. . [[Crossref](#)]
1722. Masaki Takahashi. 2019. The Behavioral Effect of Insurance Coverage and Its Health Consequences: Evidence from Long-Term Care. *SSRN Electronic Journal* **164**. . [[Crossref](#)]
1723. Ercio Munoz, Jiadi Chen, Milan Thomas. 2019. Momentum Effect in the NBA: Exploiting the Fine Line Between Winning and Losing. *SSRN Electronic Journal* **6**. . [[Crossref](#)]
1724. Jeong-Bon Kim, Eliza Xia Zhang, Kai Zhong. 2019. The Bright Side of Unionization: The Case of Stock Price Crash Risk. *SSRN Electronic Journal* **25**. . [[Crossref](#)]

1725. Sahil Raina, Sheng-Jun Xu. 2019. The Effect of Electoral Competition on Government-Subsidized Small Business Loans: Evidence from Congressional Gerrymandering. *SSRN Electronic Journal* 95. . [\[Crossref\]](#)
1726. Lisa De Simone, Marcel Olbert. 2019. Real Effects of Private Country-by-Country Disclosure. *SSRN Electronic Journal* 49. . [\[Crossref\]](#)
1727. James Feigenbaum, Maxwell Palmer, Benjamin Schneer. 2019. 'Descended from Immigrants and Revolutionists': How Family Immigration History Shapes Representation in Congress. *SSRN Electronic Journal* 55. . [\[Crossref\]](#)
1728. Woon Sau Leung, Jing LI, Jiong Sun. 2019. Labor Unionization and Supply-Chain Partners' Performance. *SSRN Electronic Journal* 79. . [\[Crossref\]](#)
1729. Byung Hyun Ahn, Panos N. Patatoukas. 2019. Identifying the Effect of Stock Indexing: Impetus or Impediment to Arbitrage and Price Discovery?. *SSRN Electronic Journal* 69. . [\[Crossref\]](#)
1730. Matteo Picchio, Jan van Ours. 2019. The Mental Health Effects of Retirement. *SSRN Electronic Journal* 161. . [\[Crossref\]](#)
1731. Martin Guzi, Peter Huber, Štěpán Mikula. 2019. Old Sins Cast Long Shadows: The Long-Term Impact of the Resettlement of the Sudetenland on Residential Migration. *SSRN Electronic Journal* 126. . [\[Crossref\]](#)
1732. Bharadwaj Kadiyala, Özalp Özer, Serdar Simsek. 2019. Value of Promotions with Delayed Incentives: An Empirical Investigation of Gift Card Promotions. *SSRN Electronic Journal* 32. . [\[Crossref\]](#)
1733. Francesco D'Acunto, Thomas Rauter, Christoph Scheuch, Michael Weber. 2019. Perceived Precautionary Savings Motives: Evidence from FinTech. *SSRN Electronic Journal* 112. . [\[Crossref\]](#)
1734. Lingyun He, Meng Wu, Zhangqi Zhong, Yufei Xia, Jiaru Yu, Yunying Jiang. 2019. Can monetary policy affect renewable energy enterprises investment efficiency? A case study of 92 listed enterprises in China. *Journal of Renewable and Sustainable Energy* 11:1. . [\[Crossref\]](#)
1735. Geraint Johnes, Mike G. Tsionas. 2019. A regression discontinuity stochastic frontier model with an application to educational attainment. *Stat* 8:1. . [\[Crossref\]](#)
1736. Ahmed Elsayed, Jackline Wahba. 2019. Political change and informality. *Economics of Transition and Institutional Change* 27:1, 31-66. [\[Crossref\]](#)
1737. Ruidi Huang. 2019. The Financial Consequences of Customer Satisfaction: Evidence from Yelp Ratings and SBA Loans. *SSRN Electronic Journal* 23. . [\[Crossref\]](#)
1738. Andrii Babii, Rohit Kumar. 2019. Isotonic Regression Discontinuity Designs. *SSRN Electronic Journal* 10. . [\[Crossref\]](#)
1739. Fabio Gaetano Santeramo, Valentina Guerrieri, Emilia Lamonaca. 2019. On the Evolution of Trade and Sanitary and Phytosanitary Standards: The Role of Trade Agreements. *Agriculture* 9:1, 2. [\[Crossref\]](#)
1740. Marcel Olbert. 2019. Loss or Lost? Economic Consequences of Internal Capital Markets in Business Groups. *SSRN Electronic Journal* 2. . [\[Crossref\]](#)
1741. Enrico Rettore, Ugo Trivellato. The Use of Administrative Data to Evaluate the Impact of Active Labor Market Policies: The Case of the Italian Liste di Mobilità 165-182. [\[Crossref\]](#)
1742. Pedro S. Martins. Public Policy, Big Data, and Counterfactual Evaluation: An Illustration from an Employment Activation Programme 149-163. [\[Crossref\]](#)

1743. Claudio Deiana, Gianluca Mazzarella. Does the Road to Happiness Depend on the Retirement Decision? Evidence from Italy 237-248. [[Crossref](#)]
1744. Julio Cáceres-Delpiano, Eugenio P. Giolito. The Impact of Age of Entry on Academic Progression 249-267. [[Crossref](#)]
1745. Meng Gao. 2019. Get the Money Somehow: The Effect of Missing Performance Goals on Insider Trading. *SSRN Electronic Journal* 43. . [[Crossref](#)]
1746. Samuel Jung, Theocharis Grigoriadis. 2019. Persistence of Confucian Values? Legacies of Imperialism in China & Taiwan. *Journal of Contextual Economics – Schmollers Jahrbuch* 139:1, 73-122. [[Crossref](#)]
1747. Hirko Temesgen, Ketema Mengistu, Beyene Fekadu. 2018. Evaluating the impact of small-scale irrigation practice on household income in Abay Chomen District of Oromia National Regional State, Ethiopia. *Journal of Development and Agricultural Economics* 10:12, 384-393. [[Crossref](#)]
1748. Jindřich Špička. 2018. How does public investment support change the capital structure and productivity of small enterprises? An empirical study of the food industry. *International Food and Agribusiness Management Review* 21:8, 1045-1059. [[Crossref](#)]
1749. Adam Fremeth, Brian Kelleher Richter, Brandon Schaufele. 2018. Spillovers from regulating corporate campaign contributions. *Journal of Regulatory Economics* 54:3, 244-265. [[Crossref](#)]
1750. Junhong Chu, Haoming Liu, I. P. L. Png. 2018. Nonlabor Income and Age at Marriage: Evidence From China's Heating Policy. *Demography* 55:6, 2345-2370. [[Crossref](#)]
1751. Jin-young Choi, Myoung-jae Lee. 2018. Relaxing conditions for local average treatment effect in fuzzy regression discontinuity. *Economics Letters* 173, 47-50. [[Crossref](#)]
1752. Sekou Keita, Pierre Mandon. 2018. Give a fish or teach fishing? Partisan affiliation of U.S. governors and the poverty status of immigrants. *European Journal of Political Economy* 55, 65-96. [[Crossref](#)]
1753. Kevin Fahey. 2018. Demonstrating the (in) effectiveness of electoral reforms. *Electoral Studies* 56, 35-46. [[Crossref](#)]
1754. Yi Lu, Xinzheng Shi, Songfa Zhong. 2018. Competitive experience and gender difference in risk preference, trust preference and academic performance: Evidence from Gaokao in China. *Journal of Comparative Economics* 46:4, 1388-1410. [[Crossref](#)]
1755. Erling Røed Larsen. 2018. Can monetary policy revive the housing market in a crisis? Evidence from high-resolution data on Norwegian transactions. *Journal of Housing Economics* 42, 69-83. [[Crossref](#)]
1756. Murat G. Kırdar, Meltem Dayıoğlu, İsmet Koç. 2018. The Effects of Compulsory-Schooling Laws on Teenage Marriage and Births in Turkey. *Journal of Human Capital* 12:4, 640-668. [[Crossref](#)]
1757. Jan Fidrmuc, J. D. Tena. 2018. UK national minimum wage and labor market outcomes of young workers. *Economics* 12:1. . [[Crossref](#)]
1758. Rina Seung Eun Park, Judith Scott-Clayton. 2018. The Impact of Pell Grant Eligibility on Community College Students' Financial Aid Packages, Labor Supply, and Academic Outcomes. *Educational Evaluation and Policy Analysis* 40:4, 557-585. [[Crossref](#)]
1759. Marie Lechler, Lachlan McNamee. 2018. Indirect Colonial Rule Undermines Support for Democracy: Evidence From a Natural Experiment in Namibia. *Comparative Political Studies* 51:14, 1858-1898. [[Crossref](#)]

1760. Maximilian v. Ehrlich, Tobias Seidel. 2018. The Persistent Effects of Place-Based Policy: Evidence from the West-German Zonenrandgebiet. *American Economic Journal: Economic Policy* **10**:4, 344-374. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1761. Quinn Keefer, Galib Rustamov. 2018. Limited attention in residential energy markets: a regression discontinuity approach. *Empirical Economics* **55**:3, 993-1017. [[Crossref](#)]
1762. Xiandeng Jiang. 2018. Relative Performance Prizes and Dynamic Incentives in Best-of-N Contests. *Review of Industrial Organization* **53**:3, 563-590. [[Crossref](#)]
1763. Guido de Blasio, Stefania De Mitri, Alessio D'Ignazio, Paolo Finaldi Russo, Lavinia Stoppani. 2018. Public guarantees to SME borrowing. A RDD evaluation. *Journal of Banking & Finance* **96**, 73-86. [[Crossref](#)]
1764. Tao Chen. 2018. Round-number biases and informed trading in global markets. *Journal of Business Research* **92**, 105-117. [[Crossref](#)]
1765. Anthony Keats. 2018. Women's schooling, fertility, and child health outcomes: Evidence from Uganda's free primary education program. *Journal of Development Economics* **135**, 142-159. [[Crossref](#)]
1766. Yi Zhang, Martin Salm, Arthur van Soest. 2018. The effect of retirement on healthcare utilization: Evidence from China. *Journal of Health Economics* **62**, 165-177. [[Crossref](#)]
1767. Kurt Schmidheiny, Michaela Slotwinski. 2018. Tax-induced mobility: Evidence from a foreigners' tax scheme in Switzerland. *Journal of Public Economics* **167**, 293-324. [[Crossref](#)]
1768. Jörg L Spenkuch, David Toniatti. 2018. Political Advertising and Election Results\*. *The Quarterly Journal of Economics* **133**:4, 1981-2036. [[Crossref](#)]
1769. Saptarshi Mukherjee, Krishnamurthy Subramanian, Prasanna Tantri. 2018. Borrowers' Distress and Debt Relief: Evidence from a Natural Experiment. *The Journal of Law and Economics* **61**:4, 607-635. [[Crossref](#)]
1770. Sirio Lonati, Bernardo F. Quiroga, Christian Zehnder, John Antonakis. 2018. On doing relevant and rigorous experiments: Review and recommendations. *Journal of Operations Management* **64**:1, 19-40. [[Crossref](#)]
1771. Jon M. Stauffer, Alfonso J. Pedraza-Martinez, Lu (Lucy) Yan, Luk N. Van Wassenhove. 2018. Asset supply networks in humanitarian operations: A combined empirical-simulation approach. *Journal of Operations Management* **63**:1, 44-58. [[Crossref](#)]
1772. Corey Lang, Patrick Prendergast, Shanna Pearson-Merkowitz. 2018. How does municipal policy affect state and local actions? Evidence from land conservation spending. *Resource and Energy Economics* **54**, 23-36. [[Crossref](#)]
1773. Ian Lange, Mirko Moro, Mohammad Mahbubur Rahman. 2018. Cleaner Nudges? Policy Labels and Investment Decision-making. *The Energy Journal* **39**:6, 27-52. [[Crossref](#)]
1774. Hongyou Lu, Yunchan Zhu, Yu Qi, Jinliang Yu. 2018. Do Urban Subway Openings Reduce PM2.5 Concentrations? Evidence from China. *Sustainability* **10**:11, 4147. [[Crossref](#)]
1775. Maria R. Ibanez, Bradley R. Staats. Behavioral Empirics and Field Experiments 121-147. [[Crossref](#)]
1776. Silvia H. Barcellos, Leandro S. Carvalho, Patrick Turley. 2018. Education can reduce health differences related to genetic risk of obesity. *Proceedings of the National Academy of Sciences* **115**:42. . [[Crossref](#)]
1777. Catherine Hausman, David S. Rapson. 2018. Regression Discontinuity in Time: Considerations for Empirical Applications. *Annual Review of Resource Economics* **10**:1, 533-552. [[Crossref](#)]

1778. Daniel Avdic, Arizo Karimi. 2018. Modern Family? Paternity Leave and Marital Stability. *American Economic Journal: Applied Economics* 10:4, 283-307. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1779. Marta Curto-Grau, Albert Solé-Ollé, Pilar Sorribas-Navarro. 2018. Does Electoral Competition Curb Party Favoritism?. *American Economic Journal: Applied Economics* 10:4, 378-407. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1780. Jaakko Meriläinen, Janne Tukiainen. 2018. Rank effects in political promotions. *Public Choice* 177:1-2, 87-109. [[Crossref](#)]
1781. Blane D. Lewis. 2018. Endogenous district magnitude and political party fragmentation in subnational Indonesia: A research note. *Electoral Studies* 55, 136-145. [[Crossref](#)]
1782. Emanuele Bracco, Maria De Paola, Colin P. Green, Vincenzo Scoppa. 2018. The effect of far right parties on the location choice of immigrants: Evidence from Lega Nord Mayors. *Journal of Public Economics* 166, 12-26. [[Crossref](#)]
1783. Paulo Roberto Arvate, Gisele Walczak Galilea, Isabela Todescat. 2018. The queen bee: A myth? The effect of top-level female leadership on subordinate females. *The Leadership Quarterly* 29:5, 533-548. [[Crossref](#)]
1784. Lachlan McNamee. 2018. Mass Resettlement and Political Violence. *World Politics* 70:4, 595-644. [[Crossref](#)]
1785. Mark Hoekstra, Pierre Mouganie, Yaojing Wang. 2018. Peer Quality and the Academic Benefits to Attending Better Schools. *Journal of Labor Economics* 36:4, 841-884. [[Crossref](#)]
1786. Stephen Gibbons, Sandra McNally, Martina Viarengo. 2018. Does Additional Spending Help Urban Schools? An Evaluation Using Boundary Discontinuities. *Journal of the European Economic Association* 16:5, 1618-1668. [[Crossref](#)]
1787. Tim Bollerslev, Jia Li, Yuan Xue. 2018. Volume, Volatility, and Public News Announcements. *The Review of Economic Studies* 85:4, 2005-2041. [[Crossref](#)]
1788. Russell Clarence Callaghan, Marcos Sanches, Jodi Gatley, James K Cunningham, Michael Oliver Chaiton, Robert Schwartz, Susan Bondy, Claire Benny. 2018. Impacts of Canada's minimum age for tobacco sales (MATs) laws on youth smoking behaviour, 2000-2014. *Tobacco Control* 27:e2, e105-e111. [[Crossref](#)]
1789. Lauren Lanahan, Maryann P. Feldman. 2018. Approximating Exogenous Variation in R&D: Evidence from the Kentucky and North Carolina SBIR State Match Programs. *The Review of Economics and Statistics* 100:4, 740-752. [[Crossref](#)]
1790. Derek Messacar. 2018. Crowd-Out, Education, and Employer Contributions to Workplace Pensions: Evidence from Canadian Tax Records. *The Review of Economics and Statistics* 100:4, 648-663. [[Crossref](#)]
1791. Jordan Albritton, Thomas W. Belnap, Lucy A. Savitz. 2018. The Effect Of The Hospital Readmissions Reduction Program On Readmission And Observation Stay Rates For Heart Failure. *Health Affairs* 37:10, 1632-1639. [[Crossref](#)]
1792. Hengchen Dai, Berkeley J. Dietvorst, Bradford Tuckfield, Katherine L. Milkman, Maurice E. Schweitzer. 2018. Quitting When the Going Gets Tough: A Downside of High Performance Expectations. *Academy of Management Journal* 61:5, 1667-1691. [[Crossref](#)]
1793. Anjali Thomas. 2018. Targeting Ordinary Voters or Political Elites? Why Pork Is Distributed Along Partisan Lines in India. *American Journal of Political Science* 62:4, 796-812. [[Crossref](#)]

1794. Elliott Fan, Xin Meng, Zhichao Wei, Guochang Zhao. 2018. Rates of Return to Four-Year University Education: An Application of Regression Discontinuity Design. *The Scandinavian Journal of Economics* **120**:4, 1011-1042. [[Crossref](#)]
1795. Florian Neumeier. 2018. DO BUSINESSMEN MAKE GOOD GOVERNORS?. *Economic Inquiry* **56**:4, 2116-2136. [[Crossref](#)]
1796. Di Xu, Sabrina Solanki, Peter McPartlan, Brian Sato. 2018. EASEing Students Into College: The Impact of Multidimensional Support for Underprepared Students. *Educational Researcher* **47**:7, 435-450. [[Crossref](#)]
1797. Thang Dang. 2018. Do the more educated utilize more health care services? Evidence from Vietnam using a regression discontinuity design. *International Journal of Health Economics and Management* **18**:3, 277-299. [[Crossref](#)]
1798. Jeremy Luallen, Jared Edgerton, Deirdre Rabideau. 2018. A Quasi-Experimental Evaluation of the Impact of Public Assistance on Prisoner Recidivism. *Journal of Quantitative Criminology* **34**:3, 741-773. [[Crossref](#)]
1799. Fatma Romeh M. Ali, Shiferaw Gurmu. 2018. The impact of female education on fertility: a natural experiment from Egypt. *Review of Economics of the Household* **16**:3, 681-712. [[Crossref](#)]
1800. Bahadır Dursun, Resul Cesur, Naci Mocan. 2018. The Impact of Education on Health Outcomes and Behaviors in a Middle-Income, Low-Education Country. *Economics & Human Biology* **31**, 94-114. [[Crossref](#)]
1801. Caio Piza. 2018. Out of the Shadows? Revisiting the impact of the Brazilian SIMPLES program on firms' formalization rates. *Journal of Development Economics* **134**, 125-132. [[Crossref](#)]
1802. Ke-Li Xu. 2018. A semi-nonparametric estimator of regression discontinuity design with discrete duration outcomes. *Journal of Econometrics* **206**:1, 258-278. [[Crossref](#)]
1803. Alana T Brennan, Jacob Bor, Mary-Ann Davies, Gilles Wandeler, Hans Prozesky, Geoffrey Fatti, Robin Wood, Kathryn Stinson, Frank Tanser, Till Bärnighausen, Andrew Boulle, Izukanji Sikazwe, Arianna Zanolini, Matthew P Fox. 2018. Medication Side Effects and Retention in HIV Treatment: A Regression Discontinuity Study of Tenofovir Implementation in South Africa and Zambia. *American Journal of Epidemiology* **187**:9, 1990-2001. [[Crossref](#)]
1804. Dorota Murzyn. 2018. Financing of Smart Growth in Less Developed Regions on the Example of Poland. *e-Finanse* **14**:3, 8-20. [[Crossref](#)]
1805. Xitong Li. 2018. Impact of Average Rating on Social Media Endorsement: The Moderating Role of Rating Dispersion and Discount Threshold. *Information Systems Research* **29**:3, 739-754. [[Crossref](#)]
1806. Xiaodong Gong, Jiti Gao. 2018. Nonparametric kernel estimation of the impact of tax policy on the demand for private health insurance in Australia. *Australian & New Zealand Journal of Statistics* **60**:3, 374-393. [[Crossref](#)]
1807. Thomas F. Crossley, Federico Zilio. 2018. The health benefits of a targeted cash transfer: The UK Winter Fuel Payment. *Health Economics* **27**:9, 1354-1365. [[Crossref](#)]
1808. Christopher Severen, Andrew J. Plantinga. 2018. Land-use regulations, property values, and rents: Decomposing the effects of the California Coastal Act. *Journal of Urban Economics* **107**, 65-78. [[Crossref](#)]



1809. Rita Hamad, Holly Elser, Duy C. Tran, David H. Rehkopf, Steven N. Goodman. 2018. How and why studies disagree about the effects of education on health: A systematic review and meta-analysis of studies of compulsory schooling laws. *Social Science & Medicine* **212**, 168-178. [[Crossref](#)]
1810. Steven Balsam, Yuqi Gu, Connie X. Mao. 2018. Creditor Influence and CEO Compensation: Evidence from Debt Covenant Violations. *The Accounting Review* **93**:5, 23-50. [[Crossref](#)]
1811. Patrick Button. 2018. A Replication of “Do Voters Affect or Elect Policies? Evidence from the U.S. House” ( Quarterly Journal of Economics , 2004). *Public Finance Review* **46**:5, 886-893. [[Crossref](#)]
1812. John Gathergood, Benedict Guttman-Kenney, Stefan Hunt. 2018. How Do Payday Loans Affect Borrowers? Evidence from the U.K. Market. *The Review of Financial Studies* **2**. . [[Crossref](#)]
1813. Alberto Abadie, Matias D. Cattaneo. 2018. Econometric Methods for Program Evaluation. *Annual Review of Economics* **10**:1, 465-503. [[Crossref](#)]
1814. Michal Kolesár, Christoph Rothe. 2018. Inference in Regression Discontinuity Designs with a Discrete Running Variable. *American Economic Review* **108**:8, 2277-2304. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1815. Lionel Cottier. 2018. Culture, financial constraints, and retirement decision. *Labour Economics* **53**, 128-145. [[Crossref](#)]
1816. JON H. FIVA, DANIEL M. SMITH. 2018. Political Dynasties and the Incumbency Advantage in Party-Centered Environments. *American Political Science Review* **112**:3, 706-712. [[Crossref](#)]
1817. JENS OLAV DAHLGAARD. 2018. Trickle-Up Political Socialization: The Causal Effect on Turnout of Parenting a Newly Enfranchised Voter. *American Political Science Review* **112**:3, 698-705. [[Crossref](#)]
1818. Catherine E Oldenburg, George R Seage, Frank Tanser, Victor De Gruttola, Kenneth H Mayer, Matthew J Mimiaga, Jacob Bor, Till Bärnighausen. 2018. Antiretroviral Therapy and Mortality in Rural South Africa: A Comparison of Causal Modeling Approaches. *American Journal of Epidemiology* **187**:8, 1772-1779. [[Crossref](#)]
1819. Giorgio d'Agostino, Margherita Scarlato, Silvia Napolitano. 2018. Do Cash Transfers Promote Food Security? The Case of the South African Child Support Grant. *Journal of African Economies* **27**:4, 430-456. [[Crossref](#)]
1820. Zachary Peskowitz, Suhas A Sridharan. 2018. Partisanship, Political Institutions, and Debt Issues. *The Journal of Law, Economics, and Organization* **34**:3, 395-424. [[Crossref](#)]
1821. Kai Li, Tingting Liu, Juan (Julie) Wu. 2018. Vote Avoidance and Shareholder Voting in Mergers and Acquisitions. *The Review of Financial Studies* **31**:8, 3176-3211. [[Crossref](#)]
1822. William Rhodes, Gerald G. Gaes, Ryan Kling, Christopher Cutler. 2018. Relationship Between Prison Length of Stay and Recidivism: A Study Using Regression Discontinuity and Instrumental Variables With Multiple Break Points. *Criminology & Public Policy* **17**:3, 731-769. [[Crossref](#)]
1823. Bing Zhang, Xiaolan Chen, Huanxiu Guo. 2018. Does central supervision enhance local environmental enforcement? Quasi-experimental evidence from China. *Journal of Public Economics* **164**, 70-90. [[Crossref](#)]
1824. Carlo Devillanova, Francesco Fasani, Tommaso Frattini. 2018. Employment of Undocumented Immigrants and the Prospect of Legal Status: Evidence from an Amnesty Program . *ILR Review* **71**:4, 853-881. [[Crossref](#)]

1825. Jennifer M. Alix-Garcia, Katharine R. E. Sims, Victor H. Orozco-Olvera, Laura E. Costica, Jorge David Fernández Medina, Sofia Romo Monroy. 2018. Payments for environmental services supported social capital while increasing land management. *Proceedings of the National Academy of Sciences* **115**:27, 7016-7021. [[Crossref](#)]
1826. Marshall Makate, Clifton Makate. 2018. Educated Mothers, Well-Fed and Healthy Children? Assessing the Impact of the 1980 School Reform on Dietary Diversity and Nutrition Outcomes of Zimbabwean Children. *The Journal of Development Studies* **54**:7, 1196-1216. [[Crossref](#)]
1827. Jordan C. Stanley. 2018. Labor market impacts from ozone nonattainment status: a regression discontinuity analysis. *Environmental Economics and Policy Studies* **20**:3, 527-546. [[Crossref](#)]
1828. Monika Köppl-Turyna, Hans Pitlik. 2018. Do equalization payments affect subnational borrowing? Evidence from regression discontinuity. *European Journal of Political Economy* **53**, 84-108. [[Crossref](#)]
1829. Martin S. Andersen. 2018. Effects of Medicare coverage for the chronically ill on health insurance, utilization, and mortality: Evidence from coverage expansions affecting people with end-stage renal disease. *Journal of Health Economics* **60**, 75-89. [[Crossref](#)]
1830. Fabrice Kämpfen, Jürgen Maurer. 2018. Does education help “old dogs” learn “new tricks”? The lasting impact of early-life education on technology use among older adults. *Research Policy* **47**:6, 1125-1132. [[Crossref](#)]
1831. Jin-young Choi, Myoung-jae Lee. 2018. Regression Discontinuity with Multiple Running Variables Allowing Partial Effects. *Political Analysis* **26**:3, 258-274. [[Crossref](#)]
1832. Ivan A Canay, Vishal Kamat. 2018. Approximate Permutation Tests and Induced Order Statistics in the Regression Discontinuity Design. *The Review of Economic Studies* **85**:3, 1577-1608. [[Crossref](#)]
1833. Matthew Shirrell. 2018. The Effects of Subgroup-Specific Accountability on Teacher Turnover and Attrition. *Education Finance and Policy* **13**:3, 333-368. [[Crossref](#)]
1834. Yao Pan, Stephen C Smith, Munshi Sulaiman. 2018. Agricultural Extension and Technology Adoption for Food Security: Evidence from Uganda. *American Journal of Agricultural Economics* **100**:4, 1012-1031. [[Crossref](#)]
1835. Kristof De Witte, Benny Geys, Nanna Lauritz Schönhage. 2018. Strategic public policy around population thresholds. *Journal of Urban Economics* **106**, 46-58. [[Crossref](#)]
1836. Yupeng Lin, Ying Mao, Zheng Wang. 2018. Institutional Ownership, Peer Pressure, and Voluntary Disclosures. *The Accounting Review* **93**:4, 283-308. [[Crossref](#)]
1837. Hosung Sohn, Kwang Bin Bae. 2018. Do Public Employees “Game” Performance Budgeting Systems? Evidence From the Program Assessment Rating Tool in Korea. *The American Review of Public Administration* **48**:5, 458-475. [[Crossref](#)]
1838. Annette Alstadsæter, Martin Jacob. 2018. Tax Incentives and Noncompliance. *Public Finance Review* **46**:4, 609-634. [[Crossref](#)]
1839. Yusuf Emre Akgündüz, Suzanne Heijnen. 2018. Impact of Funding Targeted Pre-school Interventions on School Readiness: Evidence from the Netherlands. *De Economist* **166**:2, 155-178. [[Crossref](#)]
1840. Joaquín Artés, Ignacio Jurado. 2018. Government fragmentation and fiscal deficits: a regression discontinuity approach. *Public Choice* **175**:3-4, 367-391. [[Crossref](#)]
1841. Nikki van Leeuwen, Hester F. Lingsma, Simon P. Mooijaart, Daan Nieboer, Stella Trompet, Ewout W. Steyerberg. 2018. Regression discontinuity was a valid design for dichotomous outcomes in three randomized trials. *Journal of Clinical Epidemiology* **98**, 70-79. [[Crossref](#)]

1842. Per Engström, Eskil Forsell. 2018. Demand effects of consumers' stated and revealed preferences. *Journal of Economic Behavior & Organization* **150**, 43-61. [[Crossref](#)]
1843. Yuko Mori, Norihito Sakamoto. 2018. Economic consequences of employment quota system for disabled people: Evidence from a regression discontinuity design in Japan. *Journal of the Japanese and International Economies* **48**, 1-14. [[Crossref](#)]
1844. Mauricio Oyarzo, Dusan Paredes. 2018. The impact of mining taxes on public education: Evidence for mining municipalities in Chile. *Resources Policy* **33**. . [[Crossref](#)]
1845. Thomas J. Chemmanur, Xuan Tian. 2018. Do Antitakeover Provisions Spur Corporate Innovation? A Regression Discontinuity Analysis. *Journal of Financial and Quantitative Analysis* **53**:3, 1163-1194. [[Crossref](#)]
1846. Vishal Kamat. 2018. ON NONPARAMETRIC INFERENCE IN THE REGRESSION DISCONTINUITY DESIGN. *Econometric Theory* **34**:3, 694-703. [[Crossref](#)]
1847. Oskari Harjunen, Mika Kortelainen, Tuukka Saarimaa. 2018. Best Education Money Can Buy? Capitalization of School Quality in Finland. *CESifo Economic Studies* **64**:2, 150-175. [[Crossref](#)]
1848. Florian Englmaier, Arno Schmöller, Till Stowasser. 2018. Price Discontinuities in an Online Market for Used Cars. *Management Science* **64**:6, 2754-2766. [[Crossref](#)]
1849. Petri Böckerman, Ohto Kanninen, Ilpo Suoniemi. 2018. A kink that makes you sick: The effect of sick pay on absence. *Journal of Applied Econometrics* **33**:4, 568-579. [[Crossref](#)]
1850. Augusto Cerqua, Guido Pellegrini. 2018. Are we spending too much to grow? The case of Structural Funds. *Journal of Regional Science* **58**:3, 535-563. [[Crossref](#)]
1851. Yi Che, Xin Li. 2018. Retirement and health: Evidence from China. *China Economic Review* **49**, 84-95. [[Crossref](#)]
1852. Bruno Castanho Silva. 2018. The (Non)Impact of the 2015 Paris Terrorist Attacks on Political Attitudes. *Personality and Social Psychology Bulletin* **44**:6, 838-850. [[Crossref](#)]
1853. Marshall Makate, Clifton Makate. 2018. Education and teenage childbirth in Uganda. *International Journal of Social Economics* **45**:5, 746-764. [[Crossref](#)]
1854. Thijs Bol, Mathijs de Vaan, Arnout van de Rijt. 2018. The Matthew effect in science funding. *Proceedings of the National Academy of Sciences* **115**:19, 4887-4890. [[Crossref](#)]
1855. Kari Vea Salvanes, Rune Borgan Reiling, Astrid Marie Jorde Sandsør. 2018. Utdanning som arbeidsrettet tiltak for ungdom med redusert arbeidsevne. *Søkelys på arbeidslivet* **35**:1-2, 23-42. [[Crossref](#)]
1856. Fabiana Rocha, Veronica Ines Fernandez Orellano, Karina Bugarin. 2018. Elected in a close race: Mayor's characteristics and local public finances. *EconomiA* **19**:2, 149-163. [[Crossref](#)]
1857. Mari Magnussen Landsem, Jon Magnussen. 2018. The effect of copayments on the utilization of the GP service in Norway. *Social Science & Medicine* **205**, 99-106. [[Crossref](#)]
1858. Rodrigo Schneider, Kelly N. Senters. 2018. Winners and Losers of the Ballot: Electronic vs. Traditional Paper Voting Systems in Brazil. *Latin American Politics and Society* **60**:2, 41-60. [[Crossref](#)]
1859. Laura R. Wherry, Sarah Miller, Robert Kaestner, Bruce D. Meyer. 2018. Childhood Medicaid Coverage and Later-Life Health Care Utilization. *The Review of Economics and Statistics* **100**:2, 287-302. [[Crossref](#)]

1860. Thomas S. Dee, Hans Henrik Sievertsen. 2018. The gift of time? School starting age and mental health. *Health Economics* 27:5, 781-802. [[Crossref](#)]
1861. Jin Feng, Xiaohan Zhang. 2018. Retirement and Grandchild Care in Urban China. *Feminist Economics* 24:2, 240-264. [[Crossref](#)]
1862. Todd Pugatch, Elizabeth Schroeder. 2018. Teacher pay and student performance: evidence from the Gambian hardship allowance. *Journal of Development Effectiveness* 10:2, 249-276. [[Crossref](#)]
1863. Benjamin M. Marx, Lesley J. Turner. 2018. Borrowing Trouble? Human Capital Investment with Opt-In Costs and Implications for the Effectiveness of Grant Aid. *American Economic Journal: Applied Economics* 10:2, 163-201. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1864. Louis-Philippe Beland, Bulent Unel. 2018. The impact of party affiliation of US governors on immigrants' labor market outcomes. *Journal of Population Economics* 31:2, 627-670. [[Crossref](#)]
1865. Tong Liu, Guojun He, Alexis Lau. 2018. Avoidance behavior against air pollution: evidence from online search indices for anti-PM2.5 masks and air filters in Chinese cities. *Environmental Economics and Policy Studies* 20:2, 325-363. [[Crossref](#)]
1866. Eskil Heinesen. 2018. Admission to higher education programmes and student educational outcomes and earnings—Evidence from Denmark. *Economics of Education Review* 63, 1-19. [[Crossref](#)]
1867. Serena Canaan, Pierre Mouganie. 2018. Returns to Education Quality for Low-Skilled Students: Evidence from a Discontinuity. *Journal of Labor Economics* 36:2, 395-436. [[Crossref](#)]
1868. Timothy B Armstrong, Michal Kolesár. 2018. A Simple Adjustment for Bandwidth Snooping. *The Review of Economic Studies* 85:2, 732-765. [[Crossref](#)]
1869. Juanita Gonzalez-Uribe, Michael Leatherbee. 2018. The Effects of Business Accelerators on Venture Performance: Evidence from Start-Up Chile. *The Review of Financial Studies* 31:4, 1566-1603. [[Crossref](#)]
1870. Matthias Breuer, Katharina Hombach, Maximilian A Müller. 2018. How Does Financial Reporting Regulation Affect Firms' Banking?. *The Review of Financial Studies* 31:4, 1265-1297. [[Crossref](#)]
1871. Jungtaek Lee. 2018. Effects of health insurance coverage on risky behaviors. *Health Economics* 27:4, 762-777. [[Crossref](#)]
1872. Louis-Philippe Beland, Bulent Unel. 2018. Governors' Party Affiliation and Unions. *Industrial Relations: A Journal of Economy and Society* 57:2, 177-205. [[Crossref](#)]
1873. W. Steven Barnett, Kwanghee Jung, Allison Friedman-Krauss, Ellen C. Frede, Milagros Nores, Jason T. Hustedt, Carollee Howes, Marijata Daniel-Echols. 2018. State Prekindergarten Effects on Early Learning at Kindergarten Entry: An Analysis of Eight State Programs. *AERA Open* 4:2. . [[Crossref](#)]
1874. Kyung-Gon Lee, Solomon W. Polachek. 2018. Do school budgets matter? The effect of budget referenda on student dropout rates. *Education Economics* 26:2, 129-144. [[Crossref](#)]
1875. Lingyun He, Meng Wu, Deqing Wang, Zhangqi Zhong. 2018. A study of the influence of regional environmental expenditure on air quality in China: the effectiveness of environmental policy. *Environmental Science and Pollution Research* 25:8, 7454-7468. [[Crossref](#)]
1876. Jonathan Lehne, Jacob N. Shapiro, Oliver Vanden Eynde. 2018. Building connections: Political corruption and road construction in India. *Journal of Development Economics* 131, 62-78. [[Crossref](#)]
1877. Ping Yu, Peter C.B. Phillips. 2018. Threshold regression with endogeneity. *Journal of Econometrics* 203:1, 50-68. [[Crossref](#)]

1878. Marcelo Bergolo, Estefanía Galván. 2018. Intra-household Behavioral Responses to Cash Transfer Programs. Evidence from a Regression Discontinuity Design. *World Development* **103**, 100-118. [[Crossref](#)]
1879. Ozan Aksoy, Francesco C. Billari. 2018. Political Islam, Marriage, and Fertility: Evidence from a Natural Experiment. *American Journal of Sociology* **123**:5, 1296-1340. [[Crossref](#)]
1880. Emmanuel Adu Boahen, Chikako Yamauchi. 2018. The Effect of Female Education on Adolescent Fertility and Early Marriage: Evidence from Free Compulsory Universal Basic Education in Ghana. *Journal of African Economies* **27**:2, 227-248. [[Crossref](#)]
1881. Catherine E. Oldenburg, Jacob Bor, Guy Harling, Frank Tanser, Tinofa Mutevedzi, Maryam Shahmanesh, George R. Seage, Victor De Gruttola, Matthew J. Mimiaga, Kenneth H. Mayer, Deenan Pillay, Till Bärnighausen. 2018. Impact of early antiretroviral therapy eligibility on HIV acquisition. *AIDS* **32**:5, 635-643. [[Crossref](#)]
1882. Adam M. Lavecchia. 2018. Do “Catch-Up Limits” Raise Retirement Saving? Evidence from a Regression Discontinuity Design. *National Tax Journal* **71**:1, 121-154. [[Crossref](#)]
1883. Yoichi Arai, Hidehiko Ichimura. 2018. Simultaneous selection of optimal bandwidths for the sharp regression discontinuity estimator. *Quantitative Economics* **9**:1, 441-482. [[Crossref](#)]
1884. Nathan Deutscher, Robert Breunig. 2018. Baby Bonuses: Natural Experiments in Cash Transfers, Birth Timing and Child Outcomes. *Economic Record* **94**:304, 1-24. [[Crossref](#)]
1885. Roberto Basile, Valerio Filoso. 2018. The market value of political partisanship: Quasi-experimental evidence from municipal elections. *Papers in Regional Science* **97**, S193-S210. [[Crossref](#)]
1886. Shun-Yang Lee, Liangfei Qiu, Andrew Whinston. 2018. Sentiment Manipulation in Online Platforms: An Analysis of Movie Tweets. *Production and Operations Management* **27**:3, 393-416. [[Crossref](#)]
1887. Mason Ameri, Lisa Schur, Meera Adya, F. Scott Bentley, Patrick McKay, Douglas Kruse. 2018. The Disability Employment Puzzle: A Field Experiment on Employer Hiring Behavior. *ILR Review* **71**:2, 329-364. [[Crossref](#)]
1888. Eric T. Roberts, Alan M. Zaslavsky, J. Michael McWilliams. 2018. The Value-Based Payment Modifier: Program Outcomes and Implications for Disparities. *Annals of Internal Medicine* **168**:4, 255. [[Crossref](#)]
1889. Sunita Desai, J. Michael McWilliams. 2018. Consequences of the 340B Drug Pricing Program. *New England Journal of Medicine* **378**:6, 539-548. [[Crossref](#)]
1890. Anil Kumar. 2018. Do Restrictions on Home Equity Extraction Contribute to Lower Mortgage Defaults? Evidence from a Policy Discontinuity at the Texas Border. *American Economic Journal: Economic Policy* **10**:1, 268-297. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1891. Elmar Gerum, Sascha H. Mölls, Chunqian Shen. 2018. Corporate governance, capital market orientation and firm performance: empirical evidence for large publicly traded German corporations. *Journal of Business Economics* **88**:2, 203-252. [[Crossref](#)]
1892. Matthew Collins, John Curtis. 2018. Bunching of residential building energy performance certificates at threshold values. *Applied Energy* **211**, 662-676. [[Crossref](#)]
1893. Chester Polson. 2018. TAKS-ing students? Texas exit exam effects on human capital formation. *Economics of Education Review* **62**, 129-150. [[Crossref](#)]

1894. Ivan Zilic. 2018. General versus vocational education: Lessons from a quasi-experiment in Croatia. *Economics of Education Review* **62**, 1-11. [[Crossref](#)]
1895. David M. Brasington. 2018. Passing school building tax levies may increase teacher salary. *Economics Letters* **163**, 87-89. [[Crossref](#)]
1896. Chen Lin, Thomas Schmid, Yuhai Xuan. 2018. Employee representation and financial leverage. *Journal of Financial Economics* **127**:2, 303-324. [[Crossref](#)]
1897. JOSHUA D. CLINTON, MICHAEL W. SANCES. 2018. The Politics of Policy: The Initial Mass Political Effects of Medicaid Expansion in the States. *American Political Science Review* **112**:1, 167-185. [[Crossref](#)]
1898. Sumit Agarwal, Souphala Chomsisengphet, Neale Mahoney, Johannes Stroebel. 2018. Do Banks Pass through Credit Expansions to Consumers Who want to Borrow?\*. *The Quarterly Journal of Economics* **133**:1, 129-190. [[Crossref](#)]
1899. Neil M. Davies, Matt Dickson, George Davey Smith, Gerard J. van den Berg, Frank Windmeijer. 2018. The causal effects of education on health outcomes in the UK Biobank. *Nature Human Behaviour* **2**:2, 117-125. [[Crossref](#)]
1900. Decio Coviello, Andrea Guglielmo, Giancarlo Spagnolo. 2018. The Effect of Discretion on Procurement Performance. *Management Science* **64**:2, 715-738. [[Crossref](#)]
1901. Jennifer A. Heissel, Helen F. Ladd. 2018. School turnaround in North Carolina: A regression discontinuity analysis. *Economics of Education Review* **62**, 302-320. [[Crossref](#)]
1902. Nathan Kettlewell, Olena Stavrunova, Oleg Yerokhin. 2018. Premium subsidies and demand for private health insurance: results from a regression discontinuity design. *Applied Economics Letters* **25**:2, 96-101. [[Crossref](#)]
1903. Juan Qin, Stephanie Lee, Xiangbin Yan, Yong Tan. 2018. Beyond solving the last mile problem: the substitution effects of bike-sharing on a ride-sharing platform. *Journal of Business Analytics* **1**:1, 13-28. [[Crossref](#)]
1904. Evgeny Yakovlev. 2018. Demand for Alcohol Consumption in Russia and Its Implication for Mortality. *American Economic Journal: Applied Economics* **10**:1, 106-149. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
1905. Heather Brown. Before and After Study Designs 57-80. [[Crossref](#)]
1906. Thomas Hinz. Methoden der Arbeitsmarktforschung 479-524. [[Crossref](#)]
1907. Niklas Potrafke. 2018. Government ideology and economic policy-making in the United States—a survey. *Public Choice* **174**:1-2, 145-207. [[Crossref](#)]
1908. Jin-young Choi, Myoung-jae Lee. 2018. Minimum distance estimator for sharp regression discontinuity with multiple running variables. *Economics Letters* **162**, 10-14. [[Crossref](#)]
1909. Ajay Shenoy. 2018. Regional development through place-based policies: Evidence from a spatial discontinuity. *Journal of Development Economics* **130**, 173-189. [[Crossref](#)]
1910. Josh Lerner, Antoinette Schoar, Stanislaw Sokolinski, Karen Wilson. 2018. The globalization of angel investments: Evidence across countries. *Journal of Financial Economics* **127**:1, 1-20. [[Crossref](#)]
1911. Maria D. Fitzpatrick, Timothy J. Moore. 2018. The mortality effects of retirement: Evidence from Social Security eligibility at age 62. *Journal of Public Economics* **157**, 121-137. [[Crossref](#)]



1912. Sharad Tandon. 2018. Election Outcomes and the Poor: Evidence from the Consumption of Scheduled Castes and Tribes in India. *Economic Development and Cultural Change* **66**:2, 331-382. [[Crossref](#)]
1913. William Herlands, Edward McFowland III, Andrew Gordon Wilson, Daniel B. Neill. Automated Local Regression Discontinuity Design Discovery 1512-1520. [[Crossref](#)]
1914. Ian Appel, Todd A. Gormley, Donald B. Keim. 2018. Identification Using Russell 1000/2000 Index Assignments: A Discussion of Methodologies. *SSRN Electronic Journal* . [[Crossref](#)]
1915. Qiubin Huang. 2018. Impact of the Dodd-Frank Act on Systemic Risk: A Counterfactual Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
1916. Ke-Li mname Xu. 2018. A Semi-Nonparametric Estimator of Regression Discontinuity Design with Discrete Duration Outcomes. *SSRN Electronic Journal* **125**. . [[Crossref](#)]
1917. Alexander mname Luttmann, Cody mname Nehiba. 2018. The Distortionary Effects of Stringent Employee Hours-of-Service Regulations on the U.S. Airline Industry. *SSRN Electronic Journal* **104**. . [[Crossref](#)]
1918. Ben W. Lewis, W. Chad Carlos. 2018. Play to Win or Don't Play at All: The Financial Returns to Making the Cut. *SSRN Electronic Journal* . [[Crossref](#)]
1919. Aapo Kivinen. 2018. The Effect of Relative School Starting Age on Having an Individualized Curriculum in Finland. *SSRN Electronic Journal* . [[Crossref](#)]
1920. Lin Ge, Frederik P. Schlingemann, Hong Wu, Jing Zhao. 2018. Governance, CEO Power, and Relative Performance Evaluation Effectiveness. *SSRN Electronic Journal* . [[Crossref](#)]
1921. Gordon B. Dahl, Anne C. Gielen. 2018. Intergenerational Spillovers in Disability Insurance. *SSRN Electronic Journal* **74**. . [[Crossref](#)]
1922. Gregory W. Eaton, Tingting Liu, Micah S. Officer. 2018. Measuring M&A Premiums: Does the Use of Fixed Pre-Merger Event Windows Impart Bias?. *SSRN Electronic Journal* **39**. . [[Crossref](#)]
1923. Zhijin Zhou, Shengsheng Xiao, Yi-Chun (Chad) Ho, Yong Tan. 2018. The Persuasive and Informative Effects of Information Disclosure: Evidence from an Online Supply Chain Finance Market. *SSRN Electronic Journal* . [[Crossref](#)]
1924. Baruffaldi Stefano, Markus Simeth. 2018. Patents and Knowledge Diffusion: The Effect of Early Disclosure. *SSRN Electronic Journal* . [[Crossref](#)]
1925. Kavan Kucko, Kevin Rinz, Benjamin Solow. 2018. Labor Market Effects of the Affordable Care Act: Evidence from a Tax Notch. *SSRN Electronic Journal* . [[Crossref](#)]
1926. Danny McGowan, Huyen Nguyen. 2018. Risk Transfer and Foreclosure Law: Evidence from the Securitization Market. *SSRN Electronic Journal* . [[Crossref](#)]
1927. Keegan Woods, Kelvin Jui Keng Tan. 2018. Labor Unions and Strategic Corporate Governance: A Balancing Act of Managerial Power and Entrenchment. *SSRN Electronic Journal* . [[Crossref](#)]
1928. Simon Gloorer. 2018. The Effects of Institutional Investors on Firm Outcomes: Empirical Pitfalls of Quasi-Experiments Using Russell 1000/2000 Index Reconstitutions. *SSRN Electronic Journal* . [[Crossref](#)]
1929. Peter Severin. 2018. Politics and Corporate Investments. *SSRN Electronic Journal* . [[Crossref](#)]
1930. Rebecca DizonnRoss. 2018. How Does School Accountability Affect Teachers? Evidence from New York City. *SSRN Electronic Journal* **27**. . [[Crossref](#)]

1931. Guillermo Toral. 2018. Patronage, Elections, and Constraints: Theory and Evidence of Political Bureaucratic Cycles in Brazil. *SSRN Electronic Journal* **119**. . [[Crossref](#)]
1932. Alessandro Borin, Elisa Macchi, Michele Mancini. 2018. EU Transfers and Euroscepticism: Can't Buy Me Love?. *SSRN Electronic Journal* . [[Crossref](#)]
1933. Mark A. Carlson, Sergio Correia, Stephan Luck. 2018. The Effects of Banking Competition on Growth and Financial Stability: Evidence from the National Banking Era. *SSRN Electronic Journal* . [[Crossref](#)]
1934. Reza Mousavi, Kexin Zhao. 2018. Examining the Impacts of Airbnb's Review Policy Change on Listing Reviews. *SSRN Electronic Journal* . [[Crossref](#)]
1935. Konstantinos Matakos, Riikka Savolainen, Orestis Troumpounis, Janne Tukiainen, Dimitrios Xefteris. 2018. Electoral Institutions and Intraparty Cohesion. *SSRN Electronic Journal* . [[Crossref](#)]
1936. Andrea De Meo, Lorenzo Ferrari. 2018. Political Turnover and the Performance of Local Public Enterprises. *SSRN Electronic Journal* . [[Crossref](#)]
1937. Sam Krumholz. 2018. The Effect of District Attorneys on Local Criminal Justice Outcomes. *SSRN Electronic Journal* . [[Crossref](#)]
1938. Patrick Testa. 2018. The Economic Legacy of Expulsion: Lessons from Postwar Czechoslovakia. *SSRN Electronic Journal* . [[Crossref](#)]
1939. Daniela Lopez-Cajiao. 2018. Lightning the Future of Education in Brazil: The Impact of Rural Electrification on Educational Outcomes. *SSRN Electronic Journal* **2**. . [[Crossref](#)]
1940. Caroline Chuard. 2018. Womb at Work: The Missing Impact of Maternal Employment on Newborn Health. *SSRN Electronic Journal* . [[Crossref](#)]
1941. Vincent Geloso, Vadim Kufenko, Alex Arsenault Morin. 2018. Monopsony and Industrial Development in Nineteenth Century Quebec: The Impact of Seigneurial Tenure. *SSRN Electronic Journal* . [[Crossref](#)]
1942. Martín Gonzalez-Eiras, Carlos Sanz. 2018. Women's Representation in Politics: Voter Bias, Party Bias, and Electoral Systems. *SSRN Electronic Journal* . [[Crossref](#)]
1943. Moshe Barach, Aseem Kaul, Ming Leung, Sibo Lu. 2018. Small Numbers Bargaining in the Age of Big Data: Evidence From a Two-Sided Labor Matching Platform. *SSRN Electronic Journal* . [[Crossref](#)]
1944. Laura Dague, Joanna Lahey. 2018. Causal Inference Methods: Lessons from Applied Microeconomics. *SSRN Electronic Journal* **21**. . [[Crossref](#)]
1945. Ramiz Abdurahimov, Pelin Akyol. 2018. Education is a Remedy for Domestic Violence: Evidence from a Schooling Law Change. *SSRN Electronic Journal* . [[Crossref](#)]
1946. Vicente Valentim. 2018. Into the Parliament and into the Mainstream: How the Radical Right Becomes Normalized. *SSRN Electronic Journal* . [[Crossref](#)]
1947. Mohamed Ghaly, Alexandros Kostakis, Konstantinos Stathopoulos. 2018. The (Non-) Effect of Labor Unionization on Firm Risk: Evidence From the Options Market. *SSRN Electronic Journal* . [[Crossref](#)]
1948. Gabriel Cunha. 2018. Financial Gains from Legislative Office: Evidence from Brazilian Municipal Councilors. *SSRN Electronic Journal* . [[Crossref](#)]
1949. Divinus Oppong-Tawiah, Genevieve Bassellier, Jui Ramaprasad. 2018. Leadership and Contribution Behavior in Online Communities. *SSRN Electronic Journal* . [[Crossref](#)]

1950. Yizhen Gu, Junfu Zhang, Ben Zou. 2018. Subways and Road Congestion. *SSRN Electronic Journal* . [[Crossref](#)]
1951. Teng Li, Runjing Lu. 2018. Symbolic Awards at Work: A Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
1952. Engy Ziedan. 2018. The Intended and Unintended Consequences of the Hospital Readmission Reduction Program. *SSRN Electronic Journal* . [[Crossref](#)]
1953. Ari Hyytinen, Jaakko Meriläinen, Tuukka Saarimaa, Otto Toivanen, Janne Tukiainen. 2018. When does regression discontinuity design work? Evidence from random election outcomes. *Quantitative Economics* 9:2, 1019-1051. [[Crossref](#)]
1954. Yunhui Zhao. 2018. Got Hurt for What You Paid? Revisiting Government Subsidy in the U.S. Mortgage Market. *SSRN Electronic Journal* 16. . [[Crossref](#)]
1955. Xunyi Wang, Meiling Jiang, Wencui Han, Liangfei Qiu. 2018. The 'Glocal' Challenge: Impact of Culture Differences on Sharing Economy – An Empirical Analysis. *SSRN Electronic Journal* 24. . [[Crossref](#)]
1956. Hyoseok Hwang. 2018. The Real Effects of Local Investors: Evidence From Corporate Innovation. *SSRN Electronic Journal* 31. . [[Crossref](#)]
1957. Chitra Jogani. 2018. Does More Schooling Infrastructure Affect Literacy?. *SSRN Electronic Journal* 92. . [[Crossref](#)]
1958. Stephen Coussens. 2018. Behaving Discretely: Heuristic Thinking in the Emergency Department. *SSRN Electronic Journal* 106. . [[Crossref](#)]
1959. Randall Akee, Liqiu Zhao, Zhong Zhao. 2018. Unintended Consequences of China's New Labor Contract Law on Unemployment and Welfare Loss of the Workers. *SSRN Electronic Journal* 114. . [[Crossref](#)]
1960. Ilona Babenko, Goeun Choi, Rik Sen. 2018. Management (of) Proposals. *SSRN Electronic Journal* 12. . [[Crossref](#)]
1961. Fengyan Dai, Fang Cai, Yu Zhu. 2018. Returns to Higher Education in China: Evidence from the 1999 Higher Education Expansion Using Fuzzy Regression Discontinuity. *SSRN Electronic Journal* 110. . [[Crossref](#)]
1962. Emmanuel Pezier. 2018. Do Independent Advisers Mitigate IPO Underpricing and Withdrawals in Europe?. *SSRN Electronic Journal* 66. . [[Crossref](#)]
1963. Trine Filges, Anders Bruun Jonassen, Anne-Marie Klint Jørgensen. 2018. Reducing unemployment benefit duration to increase job finding rates: a systematic review. *Campbell Systematic Reviews* 14:1, 1-194. [[Crossref](#)]
1964. Martin Foureux Koppensteiner. 2018. Relative Age, Class Assignment, and Academic Performance: Evidence from Brazilian Primary Schools. *The Scandinavian Journal of Economics* 120:1, 296-325. [[Crossref](#)]
1965. Lucas M. Novaes. 2018. Disloyal Brokers and Weak Parties. *American Journal of Political Science* 62:1, 84-98. [[Crossref](#)]
1966. Andrew C. Eggers, Ronny Freier, Veronica Grembi, Tommaso Nannicini. 2018. Regression Discontinuity Designs Based on Population Thresholds: Pitfalls and Solutions. *American Journal of Political Science* 62:1, 210-229. [[Crossref](#)]

1967. Sara Capacci, Mario Mazzocchi, Bhavani Shankar. 2018. Breaking Habits: The Effect of the French Vending Machine Ban on School Snacking and Sugar Intakes. *Journal of Policy Analysis and Management* 37:1, 88-111. [[Crossref](#)]
1968. William T. Gormley, Deborah Phillips, Sara Anderson. 2018. The Effects of Tulsa's Pre-K Program on Middle School Student Performance. *Journal of Policy Analysis and Management* 37:1, 63-87. [[Crossref](#)]
1969. Li Feng, David Figlio, Tim Sass. 2018. School accountability and teacher mobility. *Journal of Urban Economics* 103, 1-17. [[Crossref](#)]
1970. Lingyun He, Zhangqi Zhong, Fang Yin, Deqing Wang. 2018. Impact of Energy Consumption on Air Quality in Jiangsu Province of China. *Sustainability* 10:1, 94. [[Crossref](#)]
1971. Di Xu, Mina Dadgar. 2018. How Effective Are Community College Remedial Math Courses for Students With the Lowest Math Skills?. *Community College Review* 46:1, 62-81. [[Crossref](#)]
1972. Rodney J. Andrews, Trevon D. Logan, Michael J. Sinkey. 2018. Identifying Confirmatory Bias in the Field. *Journal of Sports Economics* 19:1, 50-81. [[Crossref](#)]
1973. Francesca Dominici, Corwin Zigler. 2017. Best Practices for Gauging Evidence of Causality in Air Pollution Epidemiology. *American Journal of Epidemiology* 186:12, 1303-1309. [[Crossref](#)]
1974. Jordan Albritton, Thomas Belnap, Lucy Savitz. 2017. The Effect of the Hospital Readmission Reduction Program on the Duration of Observation Stays: Using Regression Discontinuity to Estimate Causal Effects. *eGEMs (Generating Evidence & Methods to improve patient outcomes)* 5:3. . [[Crossref](#)]
1975. Jin-young Choi, Myoung-jae Lee. 2017. Regression discontinuity: review with extensions. *Statistical Papers* 58:4, 1217-1246. [[Crossref](#)]
1976. Daniel Höhmann. 2017. The effect of legislature size on public spending: evidence from a regression discontinuity design. *Public Choice* 173:3-4, 345-367. [[Crossref](#)]
1977. Andy Feng, Georg Graetz. 2017. A question of degree: The effects of degree class on labor market outcomes. *Economics of Education Review* 61, 140-161. [[Crossref](#)]
1978. Qihui Chen, Tinghe Deng, Junfei Bai, Xiurong He. 2017. Understanding the retirement-consumption puzzle through the lens of food consumption-fuzzy regression-discontinuity evidence from urban China. *Food Policy* 73, 45-61. [[Crossref](#)]
1979. Niklas Potrafke. 2017. Partisan politics: The empirical evidence from OECD panel studies. *Journal of Comparative Economics* 45:4, 712-750. [[Crossref](#)]
1980. Thomas DeLeire, Andre Chappel, Kenneth Finegold, Emily Gee. 2017. Do individuals respond to cost-sharing subsidies in their selections of marketplace health insurance plans?. *Journal of Health Economics* 56, 71-86. [[Crossref](#)]
1981. Lionel Page, Dipanwita Sarkar, Juliana Silva-Goncalves. 2017. The older the bolder: Does relative age among peers influence children's preference for competition?. *Journal of Economic Psychology* 63, 43-81. [[Crossref](#)]
1982. Elena Stancanelli. 2017. Couples' retirement under individual pension design: A regression discontinuity study for France. *Labour Economics* 49, 14-26. [[Crossref](#)]
1983. Robert Letzler, Ryan Sandler, Ania Jaroszewicz, Isaac Knowles, Luke M. Olson. 2017. Knowing When to Quit: Default Choices, Demographics and Fraud. *The Economic Journal* 127:607, 2617-2640. [[Crossref](#)]

1984. Dara Shifrer, Ruth López Turley, Holly Heard. 2017. Do Teacher Financial Awards Improve Teacher Retention and Student Achievement in an Urban Disadvantaged School District?. *American Educational Research Journal* **54**:6, 1117-1153. [[Crossref](#)]
1985. Sophie Guthmuller, Jérôme Wittwer. 2017. The Impact of the Eligibility Threshold of a French Means-Tested Health Insurance Programme on Doctor Visits: A Regression Discontinuity Analysis. *Health Economics* **26**:12. . [[Crossref](#)]
1986. Elif S. Filiz. 2017. The Effect of Unemployment Insurance Generosity on Unemployment Duration and Labor Market Transitions. *LABOUR* **31**:4, 369-393. [[Crossref](#)]
1987. Jostein Grytten. 2017. The impact of education on dental health — Ways to measure causal effects. *Community Dentistry and Oral Epidemiology* **45**:6, 485-495. [[Crossref](#)]
1988. HARIOM MANCHIRAJU, SHIVARAM RAJGOPAL. 2017. Does Corporate Social Responsibility (CSR) Create Shareholder Value? Evidence from the Indian Companies Act 2013. *Journal of Accounting Research* **55**:5, 1257-1300. [[Crossref](#)]
1989. Jacob Bor, Matthew P. Fox, Sydney Rosen, Atheendar Venkataramani, Frank Tanser, Deenan Pillay, Till Bärnighausen. 2017. Treatment eligibility and retention in clinical HIV care: A regression discontinuity study in South Africa. *PLOS Medicine* **14**:11, e1002463. [[Crossref](#)]
1990. Jeremy Grant Moulton. 2017. The Great Depression of Income: Historical Estimates of the Longer-Run Impact of Entering the Labor Market during a Recession. *The B.E. Journal of Economic Analysis & Policy* **17**:4. . [[Crossref](#)]
1991. Kai Hong. 2017. School Bond Referendum, Capital Expenditure, and Student Achievement. *The B.E. Journal of Economic Analysis & Policy* **17**:4. . [[Crossref](#)]
1992. Jan-Jan Soon. 2017. STEP UP THE HEAT: A REGRESSION DISCONTINUITY ANALYSIS OF THE EFFECT OF HOME HEATING SUBSIDY ON ENERGY EXPENDITURE. *International Journal of Business and Society* **17**:1. . [[Crossref](#)]
1993. Prita Nurmalia Kusumawardhani. 2017. Does teacher certification program lead to better quality teachers? Evidence from Indonesia. *Education Economics* **25**:6, 590-618. [[Crossref](#)]
1994. Michihito Ando. 2017. How much should we trust regression-kink-design estimates?. *Empirical Economics* **53**:3, 1287-1322. [[Crossref](#)]
1995. Kadiri Karamon, Douglas McManus, Jun Zhu. 2017. Refinance and Mortgage Default: A Regression Discontinuity Analysis of HARP's Impact on Default Rates. *The Journal of Real Estate Finance and Economics* **55**:4, 457-475. [[Crossref](#)]
1996. José A. Robles-Zurita. 2017. Cognitive skills and the LOGSE reform in Spain: evidence from PIAAC. *SERIEs* **8**:4, 401-415. [[Crossref](#)]
1997. Ke-Li Xu. 2017. Regression discontinuity with categorical outcomes. *Journal of Econometrics* **201**:1, 1-18. [[Crossref](#)]
1998. Mireille Jacobson, Srikanth Kadiyala. 2017. When Guidelines Conflict: A Case Study of Mammography Screening Initiation in the 1990s. *Women's Health Issues* **27**:6, 692-699. [[Crossref](#)]
1999. Yuqi Gu, Connie X. Mao, Xuan Tian. 2017. Banks' Interventions and Firms' Innovation: Evidence from Debt Covenant Violations. *The Journal of Law and Economics* **60**:4, 637-671. [[Crossref](#)]
2000. Alex Young. 2017. How does governance affect tax avoidance? Evidence from shareholder proposals. *Applied Economics Letters* **24**:17, 1208-1213. [[Crossref](#)]

2001. Guido Pellegrini, Teo Muccigrosso. 2017. Do subsidized new firms survive longer? Evidence from a counterfactual approach. *Regional Studies* **51**:10, 1483-1493. [[Crossref](#)]
2002. Andrew G. Meyer, Andrew R. Hanson, Daniel C. Hickman. 2017. Perceptions of institutional quality: Evidence of limited attention to higher education rankings. *Journal of Economic Behavior & Organization* **142**, 241-258. [[Crossref](#)]
2003. Laurent Davezies, Thomas Le Barbanchon. 2017. Regression discontinuity design with continuous measurement error in the running variable. *Journal of Econometrics* **200**:2, 260-281. [[Crossref](#)]
2004. Rhiannon Jerch, Matthew E. Kahn, Shanjun Li. 2017. The efficiency of local government: The role of privatization and public sector unions. *Journal of Public Economics* **154**, 95-121. [[Crossref](#)]
2005. Peter Dolton, Matteo Sandi. 2017. Returning to returns: Revisiting the British education evidence. *Labour Economics* **48**, 87-104. [[Crossref](#)]
2006. Maria Knoth Humlum, Jannie H.G. Kristoffersen, Rune Vejlin. 2017. College admissions decisions, educational outcomes, and family formation. *Labour Economics* **48**, 215-230. [[Crossref](#)]
2007. Carlos Sanz. 2017. The Effect of Electoral Systems on Voter Turnout: Evidence from a Natural Experiment. *Political Science Research and Methods* **5**:4, 689-710. [[Crossref](#)]
2008. Michael W. Sances. 2017. Attribution Errors in Federalist Systems: When Voters Punish the President for Local Tax Increases. *The Journal of Politics* **79**:4, 1286-1301. [[Crossref](#)]
2009. Devin Caughey, Christopher Warshaw, Yiqing Xu. 2017. Incremental Democracy: The Policy Effects of Partisan Control of State Government. *The Journal of Politics* **79**:4, 1342-1358. [[Crossref](#)]
2010. Beatrix Eugster, Rafael Lalive, Andreas Steinhauer, Josef Zweimüller. 2017. Culture, Work Attitudes, and Job Search: Evidence from the Swiss Language Border. *Journal of the European Economic Association* **15**:5, 1056-1100. [[Crossref](#)]
2011. Paul Fenn, Veronica Grembi, Neil Rickman. 2017. 'No Win, No Fee', Cost-shifting and the Costs of Civil Litigation: A Natural Experiment. *The Economic Journal* **127**:605, F142-F163. [[Crossref](#)]
2012. Torberg Falch, Astrid Marie Jorde Sandsør, Bjarne Strøm. 2017. Do Smaller Classes Always Improve Students' Long-run Outcomes?. *Oxford Bulletin of Economics and Statistics* **79**:5, 654-688. [[Crossref](#)]
2013. Yingying Dong, Dennis Tao Yang. 2017. MANDATORY RETIREMENT AND THE CONSUMPTION PUZZLE: DISENTANGLING PRICE AND QUANTITY DECLINES. *Economic Inquiry* **55**:4, 1738-1758. [[Crossref](#)]
2014. Rasyad A. Parinduri. 2017. Does Education Improve Health? Evidence from Indonesia. *The Journal of Development Studies* **53**:9, 1358-1375. [[Crossref](#)]
2015. Jacob Veenstra, Bernard van Ommeren. 2017. Bailout Clauses and the Price of Credit: The Dutch Experience for Housing Corporations. *De Economist* **165**:3, 295-320. [[Crossref](#)]
2016. Tianyan Hu, Sandra L. Decker, Shin-Yi Chou. 2017. The impact of health insurance expansion on physician treatment choice: Medicare Part D and physician prescribing. *International Journal of Health Economics and Management* **17**:3, 333-358. [[Crossref](#)]
2017. Fabian Wahl. 2017. Does European development have Roman roots? Evidence from the German Limes. *Journal of Economic Growth* **22**:3, 313-349. [[Crossref](#)]
2018. Sebastián Otero, Tomás Rau. 2017. The effects of drinking and driving laws on car crashes, injuries, and deaths: Evidence from Chile. *Accident Analysis & Prevention* **106**, 262-274. [[Crossref](#)]



2019. Jingjing Ye. 2017. Better safe than sorry? Evidence from Lanzhou's driving restriction policy. *China Economic Review* **45**, 1-21. [[Crossref](#)]
2020. Barnaby C. Reeves, George A. Wells, Hugh Waddington. 2017. Quasi-experimental study designs series—paper 5: a checklist for classifying studies evaluating the effects on health interventions—a taxonomy without labels. *Journal of Clinical Epidemiology* **89**, 30-42. [[Crossref](#)]
2021. Till Bärnighausen, Catherine Oldenburg, Peter Tugwell, Christian Bommer, Cara Ebert, Mauricio Barreto, Eric Djimeu, Noah Haber, Hugh Waddington, Peter Rockers, Barbara Sianesi, Jacob Bor, Günther Fink, Jeffrey Valentine, Jeffrey Tanner, Tom Stanley, Eduardo Sierra, Eric Tchetgen Tchetgen, Rifat Atun, Sebastian Vollmer. 2017. Quasi-experimental study designs series—paper 7: assessing the assumptions. *Journal of Clinical Epidemiology* **89**, 53-66. [[Crossref](#)]
2022. Till Bärnighausen, John-Arne Røttingen, Peter Rockers, Ian Shemilt, Peter Tugwell. 2017. Quasi-experimental study designs series—paper 1: introduction: two historical lineages. *Journal of Clinical Epidemiology* **89**, 4-11. [[Crossref](#)]
2023. Ozkan Eren, Briggs Depew, Stephen Barnes. 2017. Test-based promotion policies, dropping out, and juvenile crime. *Journal of Public Economics* **153**, 9-31. [[Crossref](#)]
2024. Christian A.L. Hilber, Teemu Lyytikäinen. 2017. Transfer taxes and household mobility: Distortion on the housing or labor market?. *Journal of Urban Economics* **101**, 57-73. [[Crossref](#)]
2025. Kenneth E. Fernandez, Matthew C. Dempsey. 2017. The Local Political Context of Latino Partisanship. *The Journal of Race, Ethnicity, and Politics* **2**:2, 201-232. [[Crossref](#)]
2026. Stefano Cucurachi, Sangwon Suh. 2017. Cause-effect analysis for sustainable development policy. *Environmental Reviews* **25**:3, 358-379. [[Crossref](#)]
2027. Hung-Hao Chang. 2017. Does A Social Welfare Program Affect Farmland Use? Empirical Evidence Using Administrative Data in Taiwan. *Applied Economic Perspectives and Policy* **39**:3, 441-457. [[Crossref](#)]
2028. Yu Gao, Mozaffar Khan, Liang Tan. 2017. Further Evidence on Consequences of Debt Covenant Violations. *Contemporary Accounting Research* **34**:3, 1489-1521. [[Crossref](#)]
2029. Caroline Flammer, Pratima Bansal. 2017. Does a long-term orientation create value? Evidence from a regression discontinuity. *Strategic Management Journal* **38**:9, 1827-1847. [[Crossref](#)]
2030. Qihui Chen. 2017. Impacts of Late School Entry on Children's Cognitive Development in Rural Northwestern China-Does Preprimary Education Matter?. *Asia & the Pacific Policy Studies* **4**:3, 586-601. [[Crossref](#)]
2031. Alexander Gelber, Timothy J. Moore, Alexander Strand. 2017. The Effect of Disability Insurance Payments on Beneficiaries' Earnings. *American Economic Journal: Economic Policy* **9**:3, 229-261. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2032. Benjamin Alcott. 2017. Might progress assessments hinder equitable progress? Evidence from England. *Educational Assessment, Evaluation and Accountability* **29**:3, 269-296. [[Crossref](#)]
2033. Ghasem Zaefarian, Vita Kadile, Stephan C. Henneberg, Alexander Leischnig. 2017. Endogeneity bias in marketing research: Problem, causes and remedies. *Industrial Marketing Management* **65**, 39-46. [[Crossref](#)]
2034. Giuseppe Cappelletti, Giovanni Guazzarotti, Pietro Tommasino. 2017. The stock market effects of a securities transaction tax: Quasi-experimental evidence from Italy. *Journal of Financial Stability* **31**, 81-92. [[Crossref](#)]

2035. Casey J. Wichman. 2017. Information provision and consumer behavior: A natural experiment in billing frequency. *Journal of Public Economics* **152**, 13-33. [[Crossref](#)]
2036. Guido Schwerdt, Martin R. West, Marcus A. Winters. 2017. The effects of test-based retention on student outcomes over time: Regression discontinuity evidence from Florida. *Journal of Public Economics* **152**, 154-169. [[Crossref](#)]
2037. Erick Guerra, Adam Millard-Ball. 2017. Getting around a license-plate ban: Behavioral responses to Mexico City's driving restriction. *Transportation Research Part D: Transport and Environment* **55**, 113-126. [[Crossref](#)]
2038. Guan Saw, Barbara Schneider, Kenneth Frank, I-Chien Chen, Venessa Keesler, Joseph Martineau. 2017. The Impact of Being Labeled as a Persistently Lowest Achieving School: Regression Discontinuity Evidence on Consequential School Labeling. *American Journal of Education* **123**:4, 585-613. [[Crossref](#)]
2039. Markus Gehrsitz. 2017. Speeding, Punishment, and Recidivism: Evidence from a Regression Discontinuity Design. *The Journal of Law and Economics* **60**:3, 497-528. [[Crossref](#)]
2040. Jade Benjamin-Chung, Jaynal Abedin, David Berger, Ashley Clark, Veronica Jimenez, Eugene Konagaya, Diana Tran, Benjamin F Arnold, Alan E Hubbard, Stephen P Luby, Edward Miguel, John M Colford. 2017. Spillover effects on health outcomes in low- and middle-income countries: a systematic review. *International Journal of Epidemiology* **46**:4, 1251-1276. [[Crossref](#)]
2041. Kaisa Kotakorpi, Panu Poutvaara, Marko Tervii½. 2017. Returns to Office in National and Local Politics: A Bootstrap Method and Evidence from Finland. *The Journal of Law, Economics, and Organization* **33**:3, 413-442. [[Crossref](#)]
2042. Sea-Jin Chang, Jaiho Chung. 2017. A Quasi-experimental Approach to the Multinationality-performance Relationship: An Application to Learning-by-exporting. *Global Strategy Journal* **7**:3, 257-285. [[Crossref](#)]
2043. Khondker Aktaruzzaman, Omar Farooq. 2017. Does microcredit increase borrowers' savings? A fuzzy regression discontinuity design approach. *International Review of Applied Economics* **31**:4, 495-507. [[Crossref](#)]
2044. Giorgio Di Pietro. 2017. Degree classification and recent graduates' ability: Is there any signalling effect?. *Journal of Education and Work* **30**:5, 501-514. [[Crossref](#)]
2045. Emily Rauscher. 2017. Marriage Delayed and Equalized: Effects of Early U.S. Compulsory Schooling Laws on Marital Patterns by Race. *The Sociological Quarterly* **58**:3, 447-469. [[Crossref](#)]
2046. Mark Hoekstra, Steven L. Puller, Jeremy West. 2017. Cash for Corollas: When Stimulus Reduces Spending. *American Economic Journal: Applied Economics* **9**:3, 1-35. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2047. Paul Gaggl, Greg C. Wright. 2017. A Short-Run View of What Computers Do: Evidence from a UK Tax Incentive. *American Economic Journal: Applied Economics* **9**:3, 262-294. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2048. Shiyong Zhang, Ruoyu Zhong, Junchao Zhang. 2017. School starting age and academic achievement: Evidence from China's junior high schools. *China Economic Review* **44**, 343-354. [[Crossref](#)]
2049. Gunther Capelle-Blancard. 2017. Curbing the growth of stock trading? Order-to-trade ratios and financial transaction taxes. *Journal of International Financial Markets, Institutions and Money* **49**, 48-73. [[Crossref](#)]

2050. Gabriel Heller-Sahlgren. 2017. Retirement blues. *Journal of Health Economics* **54**, 66-78. [[Crossref](#)]
2051. Yanbo Wang, Jizhen Li, Jeffrey L. Furman. 2017. Firm performance and state innovation funding: Evidence from China's Innofund program. *Research Policy* **46**:6, 1142-1161. [[Crossref](#)]
2052. Brent J. Evans. 2017. SMART Money: Do Financial Incentives Encourage College Students to Study Science?. *Education Finance and Policy* **12**:3, 342-368. [[Crossref](#)]
2053. Jesse M. Hinde. 2017. Incentive(less)? The Effectiveness of Tax Credits and Cost-Sharing Subsidies in the Affordable Care Act. *American Journal of Health Economics* **3**:3, 346-369. [[Crossref](#)]
2054. Daniel Bradley, Incheol Kim, Xuan Tian. 2017. Do Unions Affect Innovation?. *Management Science* **63**:7, 2251-2271. [[Crossref](#)]
2055. Mariana Lopes da Fonseca. 2017. Identifying the Source of Incumbency Advantage through a Constitutional Reform. *American Journal of Political Science* **61**:3, 657-670. [[Crossref](#)]
2056. Jacob Bor, Shahira Ahmed, Matthew P. Fox, Sydney Rosen, Gesine Meyer-Rath, Ingrid T. Katz, Frank Tanser, Deenan Pillay, Till Bärnighausen. 2017. Effect of eliminating CD4-count thresholds on HIV treatment initiation in South Africa: An empirical modeling study. *PLOS ONE* **12**:6, e0178249. [[Crossref](#)]
2057. Luisa Gagliardi, Marco Percoco. 2017. The impact of European Cohesion Policy in urban and rural regions. *Regional Studies* **51**:6, 857-868. [[Crossref](#)]
2058. Marco Percoco. 2017. Impact of European Cohesion Policy on regional growth: does local economic structure matter?. *Regional Studies* **51**:6, 833-843. [[Crossref](#)]
2059. Matias D. Cattaneo, Rocio Titunik, Gonzalo Vazquez-Bare. 2017. Comparing Inference Approaches for RD Designs: A Reexamination of the Effect of Head Start on Child Mortality. *Journal of Policy Analysis and Management* **36**:3, 643-681. [[Crossref](#)]
2060. Maxim L. Pinkovskiy. 2017. Growth discontinuities at borders. *Journal of Economic Growth* **22**:2, 145-192. [[Crossref](#)]
2061. Xi Chen. 2017. Old age pension and intergenerational living arrangements: a regression discontinuity design. *Review of Economics of the Household* **15**:2, 455-476. [[Crossref](#)]
2062. John B. Holbein, Helen F. Ladd. 2017. Accountability pressure: Regression discontinuity estimates of how No Child Left Behind influenced student behavior. *Economics of Education Review* **58**, 55-67. [[Crossref](#)]
2063. Zibin Zhang, Wenxin Cai, Xiangzhao Feng. 2017. How do urban households in China respond to increasing block pricing in electricity? Evidence from a fuzzy regression discontinuity approach. *Energy Policy* **105**, 161-172. [[Crossref](#)]
2064. Ricardo Estrada, Jérémie Gignoux. 2017. Benefits to elite schools and the expected returns to education: Evidence from Mexico City. *European Economic Review* **95**, 168-194. [[Crossref](#)]
2065. Meng Zhao, Yoshifumi Konishi, Haruko Noguchi. 2017. Retiring for better health? Evidence from health investment behaviors in Japan. *Japan and the World Economy* **42**, 56-63. [[Crossref](#)]
2066. William F. Bassett, W. Blake Marsh. 2017. Assessing targeted macroprudential financial regulation: The case of the 2006 commercial real estate guidance for banks. *Journal of Financial Stability* **30**, 209-228. [[Crossref](#)]
2067. Rafael Lalive, Pierpaolo Parrotta. 2017. How does pension eligibility affect labor supply in couples?. *Labour Economics* **46**, 177-188. [[Crossref](#)]

2068. Alexander Hijzen, Leopoldo Mondauto, Stefano Scarpetta. 2017. The impact of employment protection on temporary employment: Evidence from a regression discontinuity design. *Labour Economics* 46, 64-76. [[Crossref](#)]
2069. Adam Isen, Maya Rossin-Slater, W. Reed Walker. 2017. Every Breath You Take—Every Dollar You'll Make: The Long-Term Consequences of the Clean Air Act of 1970. *Journal of Political Economy* 125:3, 848-902. [[Crossref](#)]
2070. Steven F. Koch. 2017. User Fee Abolition and the Demand for Public Health Care. *South African Journal of Economics* 85:2, 242-258. [[Crossref](#)]
2071. PENGJIE GAO, PAUL SCHULTZ, ZHAOGANG SONG. 2017. Liquidity in a Market for Unique Assets: Specified Pool and To-Be-Announced Trading in the Mortgage-Backed Securities Market. *The Journal of Finance* 72:3, 1119-1170. [[Crossref](#)]
2072. Arcangelo Dimico. 2017. Size Matters: The Effect of the Size of Ethnic Groups on Development. *Oxford Bulletin of Economics and Statistics* 79:3, 291-318. [[Crossref](#)]
2073. Douglas Almond, Xing Xia. 2017. Do nonprofits manipulate investment returns?. *Economics Letters* 155, 62-66. [[Crossref](#)]
2074. Sebastian Calonico, Matias D. Cattaneo, Max H. Farrell, Rocio Titiunik. 2017. Rdrobust: Software for Regression-discontinuity Designs. *The Stata Journal: Promoting communications on statistics and Stata* 17:2, 372-404. [[Crossref](#)]
2075. Felix Thoemmes, Wang Liao, Ze Jin. 2017. The Analysis of the Regression-Discontinuity Design in R. *Journal of Educational and Behavioral Statistics* 42:3, 341-360. [[Crossref](#)]
2076. Jasjeet S. Sekhon, Rocio Titiunik. On Interpreting the Regression Discontinuity Design as a Local Experiment 1-28. [[Crossref](#)]
2077. Hugo Jales, Zhengfei Yu. Identification and Estimation Using a Density Discontinuity Approach 29-72. [[Crossref](#)]
2078. David S. Lee, Justin McCrary. The Deterrence Effect of Prison: Dynamic Theory and Evidence 73-146. [[Crossref](#)]
2079. Luke Keele, Scott Lorch, Molly Passarella, Dylan Small, Rocio Titiunik. An Overview of Geographically Discontinuous Treatment Assignments with an Application to Children's Health Insurance 147-194. [[Crossref](#)]
2080. Sebastian Galiani, Patrick J. McEwan, Brian Quistorff. External and Internal Validity of a Geographic Quasi-Experiment Embedded in a Cluster-Randomized Experiment 195-236. [[Crossref](#)]
2081. Yang Tang, Thomas D. Cook, Yasemin Kisbu-Sakarya, Heinrich Hock, Hanley Chiang. The Comparative Regression Discontinuity (CRD) Design: An Overview and Demonstration of its Performance Relative to Basic RD and the Randomized Experiment 237-279. [[Crossref](#)]
2082. Brigham R. Frandsen. Party Bias in Union Representation Elections: Testing for Manipulation in the Regression Discontinuity Design when the Running Variable is Discrete 281-315. [[Crossref](#)]
2083. David Card, David S. Lee, Zhuan Pei, Andrea Weber. Regression Kink Design: Theory and Practice 341-382. [[Crossref](#)]
2084. Otávio Bartalotti, Gray Calhoun, Yang He. Bootstrap Confidence Intervals for Sharp Regression Discontinuity Designs 421-453. [[Crossref](#)]

2085. Zhuan Pei, Yi Shen. The Devil is in the Tails: Regression Discontinuity Design with Measurement Error in the Assignment Variable 455-502. [[Crossref](#)]
2086. . Prelims i-xxv. [[Crossref](#)]
2087. Pedro Rodrigues de Oliveira, Ana Lúcia Kassouf, Juliana Maria de Aquino. 2017. Cash transfers to the elderly and its spillover effects. *Journal of Economic Studies* 44:2, 183-205. [[Crossref](#)]
2088. Rajeev Darolia. 2017. Assessing the College Financial Aid Work Penalty. *The Journal of Higher Education* 88:3, 350-375. [[Crossref](#)]
2089. Susan Athey, Guido W. Imbens. 2017. The State of Applied Econometrics: Causality and Policy Evaluation. *Journal of Economic Perspectives* 31:2, 3-32. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2090. Laura Dague, Thomas DeLeire, Lindsey Leininger. 2017. The Effect of Public Insurance Coverage for Childless Adults on Labor Supply. *American Economic Journal: Economic Policy* 9:2, 124-154. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2091. Jennifer R. Peck. 2017. Can Hiring Quotas Work? The Effect of the Nitaqat Program on the Saudi Private Sector. *American Economic Journal: Economic Policy* 9:2, 316-347. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2092. Wenhua Di, Daniel L. Millimet. 2017. Targeted business incentives and the debt behavior of households. *Empirical Economics* 52:3, 1115-1142. [[Crossref](#)]
2093. Xuezheng Qin, Castiel Chen Zhuang, Rudai Yang. 2017. Does the one-child policy improve children's human capital in urban China? A regression discontinuity design. *Journal of Comparative Economics* 45:2, 287-303. [[Crossref](#)]
2094. Shihe Fu, Yizhen Gu. 2017. Highway toll and air pollution: Evidence from Chinese cities. *Journal of Environmental Economics and Management* 83, 32-49. [[Crossref](#)]
2095. Viral Acharya, Zhaoxia Xu. 2017. Financial dependence and innovation: The case of public versus private firms. *Journal of Financial Economics* 124:2, 223-243. [[Crossref](#)]
2096. Trey Dronyk-Trosper. 2017. Getting what we vote for: A regression discontinuity test of ballot initiative outcomes. *Regional Science and Urban Economics* 64, 46-56. [[Crossref](#)]
2097. Michael D. Eriksen. 2017. Difficult Development Areas and the supply of subsidized housing. *Regional Science and Urban Economics* 64, 68-80. [[Crossref](#)]
2098. Cristina Bernini, Augusto Cerqua, Guido Pellegrini. 2017. Public subsidies, TFP and efficiency: A tale of complex relationships. *Research Policy* 46:4, 751-767. [[Crossref](#)]
2099. Ian M. McCarthy, Michael Darden. 2017. Supply-Side Responses to Public Quality Ratings: Evidence from Medicare Advantage. *American Journal of Health Economics* 3:2, 140-164. [[Crossref](#)]
2100. Cornelius Schmidt, Rüdiger Fahlenbrach. 2017. Do exogenous changes in passive institutional ownership affect corporate governance and firm value?. *Journal of Financial Economics* 124:2, 285-306. [[Crossref](#)]
2101. Jan-Jan Soon. 2017. Flags and anthems: naturalisation effects on income and employment. *International Journal of Social Economics* 44:4, 491-504. [[Crossref](#)]
2102. Sabrina T. Howell. 2017. Financing Innovation: Evidence from R&D Grants. *American Economic Review* 107:4, 1136-1164. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]

2103. Ina Ganguli. 2017. Saving Soviet Science: The Impact of Grants When Government R&D Funding Disappears. *American Economic Journal: Applied Economics* **9**:2, 165-201. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2104. Nadia Ameli, Mauro Pisu, Daniel M. Kammen. 2017. Can the US keep the PACE? A natural experiment in accelerating the growth of solar electricity. *Applied Energy* **191**, 163-169. [[Crossref](#)]
2105. Yue Qiu, Tao Shen. 2017. Organized labor and loan pricing: A regression discontinuity design analysis. *Journal of Corporate Finance* **43**, 407-428. [[Crossref](#)]
2106. Qianqian Huang, Feng Jiang, Erik Lie, Tingting Que. 2017. The Effect of Labor Unions on CEO Compensation. *Journal of Financial and Quantitative Analysis* **52**:2, 553-582. [[Crossref](#)]
2107. Alex Solis. 2017. Credit Access and College Enrollment. *Journal of Political Economy* **125**:2, 562-622. [[Crossref](#)]
2108. Louis-Philippe Beland, Sara Oloomi. 2017. PARTY AFFILIATION AND PUBLIC SPENDING: EVIDENCE FROM U.S. GOVERNORS. *Economic Inquiry* **55**:2, 982-995. [[Crossref](#)]
2109. Quinn A. W. Keefer. 2017. The Sunk-Cost Fallacy in the National Football League. *Journal of Sports Economics* **18**:3, 282-297. [[Crossref](#)]
2110. Sanjay Basu, Ankita Meghani, Arjumand Siddiqi. 2017. Evaluating the Health Impact of Large-Scale Public Policy Changes: Classical and Novel Approaches. *Annual Review of Public Health* **38**:1, 351-370. [[Crossref](#)]
2111. Peter Craig, Srinivasa Vittal Katikireddi, Alastair Leyland, Frank Popham. 2017. Natural Experiments: An Overview of Methods, Approaches, and Contributions to Public Health Intervention Research. *Annual Review of Public Health* **38**:1, 39-56. [[Crossref](#)]
2112. Sander Gerritsen, Dinand Webbink, Bas ter Weel. 2017. Sorting Around the Discontinuity Threshold: The Case of a Neighbourhood Investment Programme. *De Economist* **165**:1, 101-128. [[Crossref](#)]
2113. Jeffrey S. Ferris, David A. Newburn. 2017. Wireless alerts for extreme weather and the impact on hazard mitigating behavior. *Journal of Environmental Economics and Management* **82**, 239-255. [[Crossref](#)]
2114. Wei Zhang, C.-Y. Cynthia Lin Lawell, Victoria I. Umanskaya. 2017. The effects of license plate-based driving restrictions on air quality: Theory and empirical evidence. *Journal of Environmental Economics and Management* **82**, 181-220. [[Crossref](#)]
2115. Daiji Kawaguchi, Hisahiro Naito, Izumi Yokoyama. 2017. Assessing the effects of reducing standard hours: Regression discontinuity evidence from Japan. *Journal of the Japanese and International Economies* **43**, 59-76. [[Crossref](#)]
2116. David M. Brasington. 2017. School spending and new construction. *Regional Science and Urban Economics* **63**, 76-84. [[Crossref](#)]
2117. Mozaffar Khan, Suraj Srinivasan, Liang Tan. 2017. Institutional Ownership and Corporate Tax Avoidance: New Evidence. *The Accounting Review* **92**:2, 101-122. [[Crossref](#)]
2118. Peter M. Steiner, Yongnam Kim, Courtney E. Hall, Dan Su. 2017. Graphical Models for Quasi-experimental Designs. *Sociological Methods & Research* **46**:2, 155-188. [[Crossref](#)]
2119. Arash Nekoei, Andrea Weber. 2017. Does Extending Unemployment Benefits Improve Job Quality?. *American Economic Review* **107**:2, 527-561. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]



2120. Stefan Bauernschuster, Timo Hener, Helmut Rainer. 2017. When Labor Disputes Bring Cities to a Standstill: The Impact of Public Transit Strikes on Traffic, Accidents, Air Pollution, and Health. *American Economic Journal: Economic Policy* 9:1, 1-37. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2121. Andrew G. Meyer. 2017. The impact of education on political ideology: Evidence from European compulsory education reforms. *Economics of Education Review* 56, 9-23. [[Crossref](#)]
2122. Ron Kaniel, Robert Parham. 2017. WSJ Category Kings – The impact of media attention on consumer and mutual fund investment decisions. *Journal of Financial Economics* 123:2, 337-356. [[Crossref](#)]
2123. Deepti Goel, Sonam Gupta. 2017. The Effect of Metro Expansions on Air Pollution in Delhi. *The World Bank Economic Review* 31:1, 271-294. [[Crossref](#)]
2124. Marco Alberto De Benedetto, Maria De Paola. 2017. Candidates' Education and Turnout: Evidence from Italian Municipal Elections. *German Economic Review* 18:1, 22-50. [[Crossref](#)]
2125. George Karabatsos. 2017. A menu-driven software package of Bayesian nonparametric (and parametric) mixed models for regression analysis and density estimation. *Behavior Research Methods* 49:1, 335-362. [[Crossref](#)]
2126. Andreas Lindenblatt, Peter Egger. 2017. The long shadow of the Iron Curtain for female sex workers in German cities: Border effects and regional differences. *Urban Studies* 54:3, 649-677. [[Crossref](#)]
2127. Thomas S. Dee, Emily K. Penner. 2017. The Causal Effects of Cultural Relevance. *American Educational Research Journal* 54:1, 127-166. [[Crossref](#)]
2128. Kristin E. Porter, Sean F. Reardon, Fatih Unlu, Howard S. Bloom, Joseph R. Cimpian. 2017. Estimating Causal Effects of Education Interventions Using a Two-Rating Regression Discontinuity Design: Lessons From a Simulation Study and an Application. *Journal of Research on Educational Effectiveness* 10:1, 138-167. [[Crossref](#)]
2129. Paolo Pinotti. 2017. Clicking on Heaven's Door: The Effect of Immigrant Legalization on Crime. *American Economic Review* 107:1, 138-168. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2130. Lucie Gadenne. 2017. Tax Me, but Spend Wisely? Sources of Public Finance and Government Accountability. *American Economic Journal: Applied Economics* 9:1, 274-314. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2131. Sam Asher, Paul Novosad. 2017. Politics and Local Economic Growth: Evidence from India. *American Economic Journal: Applied Economics* 9:1, 229-273. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2132. . References 353-378. [[Crossref](#)]
2133. Peter S. Hall, Andrew Morris. Predictive Analytics and Population Health 217-225. [[Crossref](#)]
2134. Spencer E. Harpe. 2017. Design, analysis, and conclusions: Telling a consistent causal story. *Currents in Pharmacy Teaching and Learning* 9:1, 121-136. [[Crossref](#)]
2135. Thanyaporn Chankrajang, Raya Muttarak. 2017. Green Returns to Education: Does Schooling Contribute to Pro-Environmental Behaviours? Evidence from Thailand. *Ecological Economics* 131, 434-448. [[Crossref](#)]
2136. Francis L. Huang. 2017. Does attending a state-funded preschool program improve letter name knowledge?. *Early Childhood Research Quarterly* 38, 116-126. [[Crossref](#)]
2137. Gaurav Khanna, Laura Zimmermann. 2017. Guns and butter? Fighting violence with the promise of development. *Journal of Development Economics* 124, 120-141. [[Crossref](#)]

2138. Branko Bošković, Linda Nøstbakken. 2017. The cost of endangered species protection: Evidence from auctions for natural resources. *Journal of Environmental Economics and Management* **81**, 174-192. [[Crossref](#)]
2139. Wael S. Moussa. 2017. Closer to the Finish Line? Compulsory Attendance, Grade Attainment, and High School Graduation. *Education Finance and Policy* **12**:1, 28-53. [[Crossref](#)]
2140. Matthew T. Panhans, John D. Singleton. 2017. The Empirical Economist's Toolkit. *History of Political Economy* **49**:Supplement, 127-157. [[Crossref](#)]
2141. Myoung-Jae Lee. 2017. Regression Discontinuity with Errors in the Running Variable: Effect on Truthful Margin. *Journal of Econometric Methods* **6**:1. . [[Crossref](#)]
2142. Trey Dronyk-Trosper. 2017. Getting What We Vote For: A Regression Discontinuity Test of Ballot Initiative Outcomes. *SSRN Electronic Journal* . [[Crossref](#)]
2143. Quoc-Anh Do, Yen Teik Lee, Bang Dang Nguyen. 2017. Directors as Connectors: The Impact of the External Networks of Directors on Firms. *SSRN Electronic Journal* . [[Crossref](#)]
2144. Agnieszka Aleksandra Wysokinska. 2017. Institutions or Culture? Lessons for Development from Two Natural Experiments of History. *SSRN Electronic Journal* . [[Crossref](#)]
2145. Victor Westrupp. 2017. Public Investment and Housing Price Appreciation: Evidence from the Neighborhood Stabilization Program. *SSRN Electronic Journal* . [[Crossref](#)]
2146. Ken Opalo. 2017. Institutional Origins of Incumbency Advantage: Evidence from Legislative Elections in Kenya, 1963-2007. *SSRN Electronic Journal* . [[Crossref](#)]
2147. Leopoldo Fergusson, Pablo Querubin, Nelson A. Ruiz, Juan F. Vargas. 2017. The Real Winner's Curse. *SSRN Electronic Journal* . [[Crossref](#)]
2148. Kejia Hu, Sunil Chopra, Yuche Chen. 2017. Macro-Environmental Forces that Drive Carmakers to Misconduct: Intense Competition and Stringent Standards. *SSRN Electronic Journal* . [[Crossref](#)]
2149. Marta Curto-Grau, Albert Sole-Olle, Pilar Sorribas-Navarro. 2017. Does Electoral Competition Curb Party Favoritism?. *SSRN Electronic Journal* . [[Crossref](#)]
2150. Benjamin Thompson. 2017. Pensions, Retirement, and the Disutility of Labor: Bunching in Brazil. *SSRN Electronic Journal* . [[Crossref](#)]
2151. Jun Ma, Hugo Jales, Zhengfei Yu. 2017. Minimum Contrast Empirical Likelihood Manipulation Testing for Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2152. William R. Doyle, Jungmin Lee, Tuan D Nguyen. 2017. Impact of Need-Based Financial Aid on Student Persistence at Public Institutions: An Application of the Regression-Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2153. Carlos Sanz. 2017. Direct Democracy and Government Size: Evidence from Spain. *SSRN Electronic Journal* . [[Crossref](#)]
2154. Johannes Geyer, Clara Welteke. 2017. Closing Routes to Retirement: How Do People Respond?. *SSRN Electronic Journal* . [[Crossref](#)]
2155. Xiaodong Gong, Jiti Gao. 2017. Nonparametric Kernel Estimation of the Impact of Tax Policy on the Demand for Private Health Insurance in Australia. *SSRN Electronic Journal* . [[Crossref](#)]
2156. Dirk Kiesewetter, Johannes Manthey. 2017. The Relationship between Corporate Governance and Tax Avoidance Evidence from Germany Using a Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]

2157. Alexander Gelber, Damon Jones, Daniel W. Sacks, Jae Song. 2017. Using Kinked Budget Sets to Estimate Extensive Margin Responses: Method and Evidence from the Social Security Earnings Test. *SSRN Electronic Journal* . [[Crossref](#)]
2158. Alex Young. 2017. Irregularities in 'Governance and Taxes'. *SSRN Electronic Journal* . [[Crossref](#)]
2159. Martti Kaila. 2017. The Effects of Relative School Starting Age on Educational Outcomes in Finland. *SSRN Electronic Journal* **88**. . [[Crossref](#)]
2160. Jon M Stauffer, Lu (Lucy) Yan, Luk N. Van Wassenhove. 2017. Global Vehicle Supply Chains in Humanitarian Operations: A Network Analysis Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2161. Guido de Blasio, Stefania De Mitri, Alessio D'Ignazio, Paolo Finaldi Russo, Lavinia Stoppani. 2017. Public Guarantees on Loans to SMEs: An RDD Evaluation. *SSRN Electronic Journal* . [[Crossref](#)]
2162. Paola Bordon, Breno Braga. 2017. Employer Learning, Statistical Discrimination and University Prestige. *SSRN Electronic Journal* . [[Crossref](#)]
2163. Breno Braga, Benjamin Thompson. 2017. Local Government Spending and Employment: Regression Discontinuity Evidence from Brazil. *SSRN Electronic Journal* . [[Crossref](#)]
2164. Brian Akins, Jonathan Bitting, Maclean Gaulin. 2017. Contracting on Performance and Risk-Taking: Creditors vs. Shareholders. *SSRN Electronic Journal* . [[Crossref](#)]
2165. Anjali Adukia, Sam Asher, Paul Novosad. 2017. Educational Investment Responses to Economic Opportunity: Evidence from Indian Road Construction. *SSRN Electronic Journal* . [[Crossref](#)]
2166. Paula Gonzalez, Gabriel Montes-Rojas, Sarmistha Pal. 2017. Dual Practice by Health Workers: Theory and Evidence from Indonesia. *SSRN Electronic Journal* . [[Crossref](#)]
2167. Tomi Kyrr, Hanna Pesola. 2017. Long-Term Effects of Extended Unemployment Benefits for Older Workers. *SSRN Electronic Journal* . [[Crossref](#)]
2168. Ke-Li Xu. 2017. Estimation and Inference of Regression Discontinuity Design with Ordered or Discrete Duration Outcomes. *SSRN Electronic Journal* **125**. . [[Crossref](#)]
2169. Eduardo Fe. 2017. Partial Identification of the Causal Effect of Retirement on Cognition. *SSRN Electronic Journal* . [[Crossref](#)]
2170. Tse-Chun Lin, Qi Liu, Bo Sun. 2017. Contracting with Feedback. *SSRN Electronic Journal* . [[Crossref](#)]
2171. Fernando M. Aragon, Alexey Makarin, Ricardo Santiago Pique Cebrecos. 2017. The Effect of Party Geographic Scope on Government Outcomes: Evidence from Peruvian Municipalities. *SSRN Electronic Journal* . [[Crossref](#)]
2172. Timothy B. Armstrong, Michal Kolessr. 2017. A Simple Adjustment for Bandwidth Snooping. *SSRN Electronic Journal* . [[Crossref](#)]
2173. Matthew Collin, Theodore Talbot. 2017. Do Age-of-Marriage Laws Work? Evidence from a Large Sample of Developing Countries. *SSRN Electronic Journal* . [[Crossref](#)]
2174. Nicholas Barton, Tessa Bold, Justin Sandefur. 2017. Measuring Rents from Public Employment: Regression Discontinuity Evidence from Kenya. *SSRN Electronic Journal* . [[Crossref](#)]
2175. Ingrid Kristine Folgero, Torfinn Harding, Benjamin Westby. 2017. Going Fast or Going Green? Evidence from Environmental Speed Limits in Norway. *SSRN Electronic Journal* . [[Crossref](#)]

2176. Avraham Ebenstein, Maoyong Fan, Michael Greenstone, Guojun He, Maigeng Zhou. 2017. New Evidence on the Impact of Sustained Exposure to Air Pollution on Life Expectancy from China's Huai. *SSRN Electronic Journal* . [[Crossref](#)]
2177. Erik Lie, Tingting Que. 2017. Union Concessions Following Asset Sales and Takeovers. *SSRN Electronic Journal* . [[Crossref](#)]
2178. Christopher J. O'Leary. 2017. Evaluating Public Employment Programs with Field Experiments: A Survey of American Evidence. *SSRN Electronic Journal* . [[Crossref](#)]
2179. Omar A. Guerrero, Ulrich Matter. 2017. Uncovering Vote Trading Through Networks and Computation. *SSRN Electronic Journal* . [[Crossref](#)]
2180. Tedi Skiti. 2017. Entry Barriers and Technological Innovation in Broadband. *SSRN Electronic Journal* . [[Crossref](#)]
2181. Jacquelyn Riddick Gillette, Sudarshan Jayaraman, Jerold L. Zimmerman. 2017. Measuring Firmss Investment in Accounting Resources: Implications for Malfeasance Versus Optimal Incompetence. *SSRN Electronic Journal* . [[Crossref](#)]
2182. Andrew McEachin, Thurston Domina, Andrew M. Penner. 2017. Understanding the Effects of Middle School Algebra: A Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2183. Ying Lei. 2017. Local Restaurantss Advertising Response to a Better Online Rating. *SSRN Electronic Journal* . [[Crossref](#)]
2184. Andrew C. Johnston. 2017. Unemployment Insurance Taxes and Labor Demand: Quasi-Experimental Evidence from Administrative Data. *SSRN Electronic Journal* . [[Crossref](#)]
2185. Massimo Filippini, Tobias E. Wekhof. 2017. The Effect of Culture on Energy Efficient Vehicle Ownership. *SSRN Electronic Journal* 117. . [[Crossref](#)]
2186. Chang Liu, Li-An Zhou. 2017. Estimating the Short- and Long-Term Effects of MAO Zedonggs Economic Radicalism. *SSRN Electronic Journal* . [[Crossref](#)]
2187. Brett Hollenbeck, Sridhar Moorthy, Davide Proserpio. 2017. Advertising Strategy in the Presence of Reviews: An Empirical Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
2188. Thomas Fujiwara, Carlos Sanz. 2017. Norms in Bargaining: Evidence from Government Formation in Spain. *SSRN Electronic Journal* . [[Crossref](#)]
2189. Takahide Yanagi. 2017. Regression Discontinuity Designs with Nonclassical Measurement Errors. *SSRN Electronic Journal* . [[Crossref](#)]
2190. Minke Remmerswaal, Jan Boone, Michiel J. Bijlsma, Rudy Douven. 2017. Cost-Sharing Design Matters: A Comparison of the Rebate and Deductible in Healthcare. *SSRN Electronic Journal* . [[Crossref](#)]
2191. Sahar Parsa. 2017. From Winning an Election to Political Engagement. *SSRN Electronic Journal* 3. . [[Crossref](#)]
2192. Sara Kwasnick, Danqi Luo, Mohsen Bayati, Erica L. Plambeck. 2017. Low-Acuity Patients Delay High-Acuity Patients in the ED. *SSRN Electronic Journal* . [[Crossref](#)]
2193. Emily mname Gallagher, Stephen mname Roll, Rourke mname O'Brien, Michal mname Grinstein-Weiss. 2017. Health Insurance and the Earnings Stability of Low-Income Households. *SSRN Electronic Journal* . [[Crossref](#)]

2194. Andrew Hanson, Shawn Rohlin. 2017. Do Spatially Targeted Redevelopment Incentives Work? The Answer Depends on How You Ask the Question. *SSRN Electronic Journal* . [[Crossref](#)]
2195. Po-Chun Huang. 2017. The Effects of Extended Unemployment Benefits: Evidence from a Regression Discontinuity Design. *SSRN Electronic Journal* **42**. . [[Crossref](#)]
2196. Andrew Bird, Stephen A. Karolyi. 2017. Governance and Taxes: Evidence from Regression Discontinuity (Retracted). *The Accounting Review* **92**:1, 29-50. [[Crossref](#)]
2197. Lorenzo Forni, Andrea Bonfatti. 2017. Fiscal Rules to Tame the Political Budget Cycle: Evidence from Italian Municipalities. *IMF Working Papers* **17**:6, 1. [[Crossref](#)]
2198. Jeffrey Ng, Hong WU, Jing Zhao, Weihuan Zhai. 2017. The Effect of Shareholder-Initiated Corporate Governance on Accrual-Based and Real Earnings Management. *SSRN Electronic Journal* **59**. . [[Crossref](#)]
2199. Nelson A. Ruiz. 2017. The Power of Money. The Consequences of Electing a Donor Funded Politician. *SSRN Electronic Journal* **17**. . [[Crossref](#)]
2200. Emanuele Bracco, Maria De Paola, Colin P. Green, Vincenzo Scoppa. 2017. The Effect of Far Right Parties on the Location Choice of Immigrants: Evidence from Lega Nord Mayors. *SSRN Electronic Journal* **53**. . [[Crossref](#)]
2201. Mara Giua. 2017. SPATIAL DISCONTINUITY FOR THE IMPACT ASSESSMENT OF THE EU REGIONAL POLICY: THE CASE OF ITALIAN OBJECTIVE 1 REGIONS\*. *Journal of Regional Science* **57**:1, 109-131. [[Crossref](#)]
2202. Guido de Blasio, Samuele Poy. 2017. THE IMPACT OF LOCAL WAGE REGULATION ON EMPLOYMENT: A BORDER ANALYSIS FROM ITALY IN THE 1950s\*. *Journal of Regional Science* **57**:1, 48-74. [[Crossref](#)]
2203. Wei Wei, Alex Young. 2017. Selection Bias or Treatment Effect? A Re-Examination of Russell 1000/2000 Index Reconstitution. *SSRN Electronic Journal* **43**. . [[Crossref](#)]
2204. Jean-Michel Josselin, Benoît Le Maux. Quasi-experiments 489-531. [[Crossref](#)]
2205. Dina Pomeranz. 2017. Impact Evaluation Methods in Public Economics. *Public Finance Review* **45**:1, 10-43. [[Crossref](#)]
2206. Christina Weiland, Dana Charles McCoy, Elizabeth Grace, Soojin Oh Park. 2017. Natural Window of Opportunity? Low-Income Parents' Responses to Their Children's Impending Kindergarten Entry. *AERA Open* **3**:1. . [[Crossref](#)]
2207. Stefaan Decramer, Stijn Vanormelingen. 2016. The effectiveness of investment subsidies: evidence from a regression discontinuity design. *Small Business Economics* **47**:4, 1007-1032. [[Crossref](#)]
2208. Manxiu Ning, Jinqian Gong, Xuhui Zheng, Jun Zhuang. 2016. Does New Rural Pension Scheme decrease elderly labor supply? Evidence from CHARLS. *China Economic Review* **41**, 315-330. [[Crossref](#)]
2209. Hai Zhong. 2016. Effects of quantity of education on health: A regression discontinuity design approach based on the Chinese Cultural Revolution. *China Economic Review* **41**, 62-74. [[Crossref](#)]
2210. Tom Ahn. 2016. A theory of dynamic investment in education in response to accountability pressure. *Economics Letters* **149**, 75-78. [[Crossref](#)]
2211. Ozan Aksoy. 2016. Regression Discontinuity diagnostics reveal statistical anomalies in Turkish elections. *Electoral Studies* **44**, 284-292. [[Crossref](#)]

2212. Mahdi Rastad. 2016. Capital structure pre-balancing: Evidence from convertible bonds. *Journal of Corporate Finance* **41**, 43-65. [[Crossref](#)]
2213. Atsushi Chino. 2016. Do labor unions affect firm payout policy?: Operating leverage and rent extraction effects. *Journal of Corporate Finance* **41**, 156-178. [[Crossref](#)]
2214. Louise Voldby Beuchert, Maria Knoth Humlum, Rune Vejlin. 2016. The length of maternity leave and family health. *Labour Economics* **43**, 55-71. [[Crossref](#)]
2215. Andrew Bird, Stephen A. Karolyi. 2016. Do Institutional Investors Demand Public Disclosure?. *Review of Financial Studies* **29**:12, 3245-3277. [[Crossref](#)]
2216. Ijeoma Edoka, Tim Ensor, Barbara McPake, Rogers Amara, Fu-Min Tseng, Joseph Edem-Hotah. 2016. Free health care for under-fives, expectant and recent mothers? Evaluating the impact of Sierra Leone's free health care initiative. *Health Economics Review* **6**:1. . [[Crossref](#)]
2217. Genqiang Lei, Xiaohong Huang, Penghui Xi. 2016. The impact of transfer payments on urban-rural income gap: based on fuzzy RD analysis of China's midwestern county data. *China Finance and Economic Review* **4**:1. . [[Crossref](#)]
2218. Gibran Teixeira, Giacomo Balbinotto Neto. 2016. Seguro-desemprego brasileiro e salário de reinserção: análise empírica com regressão com descontinuidade e propensity score matching. *Nova Economia* **26**:3, 943-980. [[Crossref](#)]
2219. Huseyin Cavusoglu, Tuan Q. Phan, Hasan Cavusoglu, Edoardo M. Airoidi. 2016. Assessing the Impact of Granular Privacy Controls on Content Sharing and Disclosure on Facebook. *Information Systems Research* **27**:4, 848-879. [[Crossref](#)]
2220. Diefeng Peng, Yulei Rao, Mei Wang. 2016. Do Top 10 Lists of Daily Stock Returns Attract Investor Attention? Evidence from a Natural Experiment. *International Review of Finance* **16**:4, 565-593. [[Crossref](#)]
2221. ANTONIO FALATO, NELLIE LIANG. 2016. Do Creditor Rights Increase Employment Risk? Evidence from Loan Covenants. *The Journal of Finance* **71**:6, 2545-2590. [[Crossref](#)]
2222. Di Xu. 2016. Assistance or Obstacle? The Impact of Different Levels of English Developmental Education on Underprepared Students in Community Colleges. *Educational Researcher* **45**:9, 496-507. [[Crossref](#)]
2223. Manasi Deshpande. 2016. Does Welfare Inhibit Success? The Long-Term Effects of Removing Low-Income Youth from the Disability Rolls. *American Economic Review* **106**:11, 3300-3330. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2224. Sandra Sequeira, Johannes Spinnewijn, Guo Xu. 2016. Rewarding schooling success and perceived returns to education: Evidence from India. *Journal of Economic Behavior & Organization* **131**, 373-392. [[Crossref](#)]
2225. Jon H. Fiva, Askill H. Halse. 2016. Local favoritism in at-large proportional representation systems. *Journal of Public Economics* **143**, 15-26. [[Crossref](#)]
2226. Issi Romem, Ity Shurtz. 2016. The accident externality of driving: Evidence from observance of the Jewish Sabbath in Israel. *Journal of Urban Economics* **96**, 36-54. [[Crossref](#)]
2227. Briggs Depew, Ozkan Eren. 2016. Born on the wrong day? School entry age and juvenile crime. *Journal of Urban Economics* **96**, 73-90. [[Crossref](#)]



2228. Ioannis Bakolis, Ruth Kelly, Daniela Fecht, Nicky Best, Christopher Millett, Kevin Garwood, Paul Elliott, Anna L. Hansell, Susan Hodgson. 2016. Protective Effects of Smoke-free Legislation on Birth Outcomes in England. *Epidemiology* 27:6, 810-818. [[Crossref](#)]
2229. Ronny Freier, Sebastian Thomasius. 2016. Voters prefer more qualified mayors, but does it matter for public finances? Evidence for Germany. *International Tax and Public Finance* 23:5, 875-910. [[Crossref](#)]
2230. Irma Arteaga, Colleen Heflin, Sara Gable. 2016. The impact of aging out of WIC on food security in households with children. *Children and Youth Services Review* 69, 82-96. [[Crossref](#)]
2231. Russell C. Callaghan, Jodi M. Gatley, Marcos Sanches, Claire Benny. 2016. Do drinking-age laws have an impact on crime? Evidence from Canada, 2009-2013. *Drug and Alcohol Dependence* 167, 67-74. [[Crossref](#)]
2232. Gunther Capelle-Blancard, Olena Havrylchyk. 2016. The impact of the French securities transaction tax on market liquidity and volatility. *International Review of Financial Analysis* 47, 166-178. [[Crossref](#)]
2233. Hongliang Zhang. 2016. Identification of treatment effects under imperfect matching with an application to Chinese elite schools. *Journal of Public Economics* 142, 56-82. [[Crossref](#)]
2234. Russell C. Callaghan, Jodi M. Gatley, Marcos Sanches, Claire Benny, Mark Asbridge. 2016. Release from drinking-age restrictions is associated with increases in alcohol-related motor vehicle collisions among young drivers in Canada. *Preventive Medicine* 91, 356-363. [[Crossref](#)]
2235. Yongnam Kim, Peter Steiner. 2016. Quasi-Experimental Designs for Causal Inference. *Educational Psychologist* 51:3-4, 395-405. [[Crossref](#)]
2236. Wei Li, Spyros Konstantopoulos. 2016. Class Size Effects on Fourth-Grade Mathematics Achievement: Evidence From TIMSS 2011. *Journal of Research on Educational Effectiveness* 9:4, 503-530. [[Crossref](#)]
2237. Erik Grönqvist, Erik Lindqvist. 2016. The Making of a Manager: Evidence from Military Officer Training. *Journal of Labor Economics* 34:4, 869-898. [[Crossref](#)]
2238. Justin de Benedictis-Kessner, Christopher Warshaw. 2016. Mayoral Partisanship and Municipal Fiscal Policy. *The Journal of Politics* 78:4, 1124-1138. [[Crossref](#)]
2239. Steven F. Koch, Jeffrey S. Racine. 2016. Healthcare facility choice and user fee abolition: regression discontinuity in a multinomial choice setting. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* 179:4, 927-950. [[Crossref](#)]
2240. Gordon B. Dahl, Katrine V. Løken, Magne Mogstad, Kari Vea Salvanes. 2016. What Is the Case for Paid Maternity Leave?. *Review of Economics and Statistics* 98:4, 655-670. [[Crossref](#)]
2241. Manasi Deshpande. 2016. The Effect of Disability Payments on Household Earnings and Income: Evidence from the SSI Children's Program. *Review of Economics and Statistics* 98:4, 638-654. [[Crossref](#)]
2242. Xi Chen. 2016. OLD-AGE PENSION AND EXTENDED FAMILIES: HOW IS ADULT CHILDREN'S INTERNAL MIGRATION AFFECTED?. *Contemporary Economic Policy* 34:4, 646-659. [[Crossref](#)]
2243. Quinn A. W. Keefer. 2016. Rank-Based Groupings and Decision Making. *Journal of Sports Economics* 17:7, 748-762. [[Crossref](#)]
2244. Jake Anders, John Jerrim, Andrew McCulloch. 2016. How Much Progress Do Children in Shanghai Make Over One Academic Year? Evidence From PISA. *AERA Open* 2:4. . [[Crossref](#)]

2245. Silvana Chambers. 2016. Regression discontinuity design: a guide for strengthening causal inference in HRD. *European Journal of Training and Development* **40**:8/9, 615-637. [[Crossref](#)]
2246. Dongshu Ou. 2016. The universal provision of primary education: who benefits?. *Education Economics* **24**:5, 511-535. [[Crossref](#)]
2247. Catherine E. Oldenburg, Ellen Moscoe, Till Bärnighausen. 2016. Regression Discontinuity for Causal Effect Estimation in Epidemiology. *Current Epidemiology Reports* **3**:3, 233-241. [[Crossref](#)]
2248. Kathryn Anderson, Xue Gong, Kai Hong, Xi Zhang. 2016. Do selective high schools improve student achievement? Effects of exam schools in China. *China Economic Review* **40**, 121-134. [[Crossref](#)]
2249. Kenichi Ariga, Yusaku Horiuchi, Roland Mansilla, Michio Umeda. 2016. No sorting, no advantage: Regression discontinuity estimates of incumbency advantage in Japan. *Electoral Studies* **43**, 21-31. [[Crossref](#)]
2250. Lefteris Anastasopoulos. 2016. Estimating the gender penalty in House of Representative elections using a regression discontinuity design. *Electoral Studies* **43**, 150-157. [[Crossref](#)]
2251. Sandip Sukhtankar. 2016. Does firm ownership structure matter? Evidence from sugar mills in India. *Journal of Development Economics* **122**, 46-62. [[Crossref](#)]
2252. Deven Carlson, Stéphane Lavertu. 2016. Charter school closure and student achievement: Evidence from Ohio. *Journal of Urban Economics* **95**, 31-48. [[Crossref](#)]
2253. Joscha Legewie. 2016. Racial Profiling and Use of Force in Police Stops: How Local Events Trigger Periods of Increased Discrimination. *American Journal of Sociology* **122**:2, 379-424. [[Crossref](#)]
2254. Andrew C. Barr, Thomas S. Dee. 2016. Property Taxes and Politicians: Evidence From School Budget Elections. *National Tax Journal* **69**:3, 517-544. [[Crossref](#)]
2255. CLEMENS BONNER. 2016. Preferential Regulatory 'Treatment and Banks' Demand for Government Bonds. *Journal of Money, Credit and Banking* **48**:6, 1195-1221. [[Crossref](#)]
2256. Siddhartha Chib, Liana Jacobi. 2016. Bayesian Fuzzy Regression Discontinuity Analysis and Returns to Compulsory Schooling. *Journal of Applied Econometrics* **31**:6, 1026-1047. [[Crossref](#)]
2257. Isaac Barker, Therese Lloyd, Adam Steventon. 2016. Effect of a national requirement to introduce named accountable general practitioners for patients aged 75 or older in England: regression discontinuity analysis of general practice utilisation and continuity of care. *BMJ Open* **6**:9, e011422. [[Crossref](#)]
2258. Josephine Louie, Christopher Rhoads, June Mark. 2016. Challenges to Using the Regression Discontinuity Design in Educational Evaluations. *American Journal of Evaluation* **37**:3, 381-407. [[Crossref](#)]
2259. Niklas Jakobsson, Mikael Svensson. 2016. The effect of copayments on primary care utilization: results from a quasi-experiment. *Applied Economics* **48**:39, 3752-3762. [[Crossref](#)]
2260. Khondker Aktaruzzaman, Omar Farooq. 2016. Impact of microcredit on borrowers' expenditures: a fuzzy regression discontinuity design approach. *Applied Economics* **48**:38, 3685-3694. [[Crossref](#)]
2261. Mikael Persson, Karl-Oskar Lindgren, Sven Oskarsson. 2016. How does education affect adolescents' political development?. *Economics of Education Review* **53**, 182-193. [[Crossref](#)]
2262. Johannes C. Bugge. 2016. Law and social capital: Evidence from the Code Napoleon in Germany. *European Economic Review* **87**, 148-175. [[Crossref](#)]

2263. Hongbin Li, Xinzheng Shi, Binzhen Wu. 2016. The retirement consumption puzzle revisited: Evidence from the mandatory retirement policy in China. *Journal of Comparative Economics* **44**:3, 623-637. [[Crossref](#)]
2264. Martin Gonzalez-Rozada, Hernán Ruffo. 2016. Optimal unemployment benefits in the presence of informal labor markets. *Labour Economics* **41**, 204-227. [[Crossref](#)]
2265. Santosh Anagol, Thomas Fujiwara. 2016. The Runner-Up Effect. *Journal of Political Economy* **124**:4, 927-991. [[Crossref](#)]
2266. Vicente Cuñat, Mireia Giné, Maria Guadalupe. 2016. Say Pays! Shareholder Voice and Firm Performance\*. *Review of Finance* **20**:5, 1799-1834. [[Crossref](#)]
2267. Clemens Bonner, Sylvester C. W. Eijffinger. 2016. The Impact of Liquidity Regulation on Bank Intermediation\*. *Review of Finance* **20**:5, 1945-1979. [[Crossref](#)]
2268. Jeffrey Smith, Arthur Sweetman. 2016. Viewpoint: Estimating the causal effects of policies and programs. *Canadian Journal of Economics/Revue canadienne d'économique* **49**:3, 871-905. [[Crossref](#)]
2269. Brian Galle, David I. Walker. 2016. Donor Reaction to Salient Disclosures of Nonprofit Executive Pay. *Nonprofit and Voluntary Sector Quarterly* **45**:4, 787-805. [[Crossref](#)]
2270. Christopher H. Rhoads, Charles Dye. 2016. Optimal Design for Two-Level Random Assignment and Regression Discontinuity Studies. *The Journal of Experimental Education* **84**:3, 421-448. [[Crossref](#)]
2271. Gregory Elacqua, Matías Martínez, Humberto Santos, Daniela Urbina. 2016. Short-run effects of accountability pressures on teacher policies and practices in the voucher system in Santiago, Chile. *School Effectiveness and School Improvement* **27**:3, 385-405. [[Crossref](#)]
2272. Veronica Grembi, Tommaso Nannicini, Ugo Troiano. 2016. Do Fiscal Rules Matter?. *American Economic Journal: Applied Economics* **8**:3, 1-30. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2273. Bahadır Dursun, Resul Cesur. 2016. Transforming lives: the impact of compulsory schooling on hope and happiness. *Journal of Population Economics* **29**:3, 911-956. [[Crossref](#)]
2274. Glenn L. Pierce, Paul F. Cleary. 2016. The K-12 educational technology value chain: Apps for kids, tools for teachers and levers for reform. *Education and Information Technologies* **21**:4, 863-880. [[Crossref](#)]
2275. Ity Shurtz, Amnon Brzezinski, Ayala Frumkin. 2016. The impact of financing of screening tests on utilization and outcomes: The case of amniocentesis. *Journal of Health Economics* **48**, 61-73. [[Crossref](#)]
2276. Stephane Helleringer, Patrick O. Asuming, Jalaa Abdelwahab. 2016. The effect of mass vaccination campaigns against polio on the utilization of routine immunization services: A regression discontinuity design. *Vaccine* **34**:33, 3817-3822. [[Crossref](#)]
2277. Holger Steinmetz, Michael Knappstein, Icek Ajzen, Peter Schmidt, Rüdiger Kabst. 2016. How Effective are Behavior Change Interventions Based on the Theory of Planned Behavior?. *Zeitschrift für Psychologie* **224**:3, 216-233. [[Crossref](#)]
2278. Cyrus Samii. 2016. Causal Empiricism in Quantitative Research. *The Journal of Politics* **78**:3, 941-955. [[Crossref](#)]
2279. Jeremy Alexander Labrecque, Jay Scott Kaufman. 2016. Commentary. *Epidemiology* **27**:4, 500-502. [[Crossref](#)]

2280. Michihito Ando, Reo Takaku. 2016. Affordable False Teeth: The Effects of Patient Cost Sharing on Denture Utilization and Subjective Chewing Ability. *The B.E. Journal of Economic Analysis & Policy* 16:3, 1387-1438. [[Crossref](#)]
2281. Anna Alberini, Markus Bareit, Massimo Filippini. 2016. What is the Effect of Fuel Efficiency Information on Car Prices? Evidence from Switzerland. *The Energy Journal* 37:3, 315-342. [[Crossref](#)]
2282. Martin Lundin, Oskar Nordström-Skans, Pär Zetterberg. 2016. Leadership Experiences Within Civil Organizations and Candidacy in Public Elections: Causal Evidence from a Quasi-Experimental Approach. *Political Behavior* 38:2, 433-454. [[Crossref](#)]
2283. James R. Harrington, José Muñoz, Bradley R. Curs, Mark Ehlert. 2016. Examining the Impact of a Highly Targeted State Administered Merit Aid Program on Brain Drain: Evidence from a Regression Discontinuity Analysis of Missouri's Bright Flight Program. *Research in Higher Education* 57:4, 423-447. [[Crossref](#)]
2284. Andres Liberman. 2016. The value of a good credit reputation: Evidence from credit card renegotiations. *Journal of Financial Economics* 120:3, 644-660. [[Crossref](#)]
2285. Christopher Jepsen, Peter Mueser, Kenneth Troske. 2016. Labor Market Returns to the GED Using Regression Discontinuity Analysis. *Journal of Political Economy* 124:3, 621-649. [[Crossref](#)]
2286. Alan D. Crane, Sébastien Michenaud, James P. Weston. 2016. The Effect of Institutional Ownership on Payout Policy: Evidence from Index Thresholds. *Review of Financial Studies* 29:6, 1377-1408. [[Crossref](#)]
2287. Russell C. Callaghan, Jodi M. Gatley, Marcos Sanches, Mark Asbridge, Tim Stockwell. 2016. Impacts of drinking-age legislation on alcohol-impaired driving crimes among young people in Canada, 2009-13. *Addiction* 111:6, 994-1003. [[Crossref](#)]
2288. Srikanth Kadiyala, Erin Strumpf. 2016. How Effective is Population-Based Cancer Screening? Regression Discontinuity Estimates from the US Guideline Screening Initiation Ages. *Forum for Health Economics and Policy* 19:1, 87-139. [[Crossref](#)]
2289. Eleonora Fichera, Ewan Gray, Matt Sutton. 2016. How do individuals' health behaviours respond to an increase in the supply of health care? Evidence from a natural experiment. *Social Science & Medicine* 159, 170-179. [[Crossref](#)]
2290. Daniel Muller, Lionel Page. 2016. Born Leaders: Political Selection and The Relative Age Effect in the US Congress. *Journal of the Royal Statistical Society Series A: Statistics in Society* 179:3, 809-829. [[Crossref](#)]
2291. Young-sook Kim, Myoung-jae Lee. 2016. Regression-Kink Approach for Wage Effect on Male Work Hours. *Oxford Bulletin of Economics and Statistics* 78:3, 424-442. [[Crossref](#)]
2292. Georgeanne M. Artz, Kevin D. Duncan, Arthur P. Hall, Peter F. Orazem. 2016. DO STATE BUSINESS CLIMATE INDICATORS EXPLAIN RELATIVE ECONOMIC GROWTH AT STATE BORDERS?. *Journal of Regional Science* 56:3, 395-419. [[Crossref](#)]
2293. Vladimir Kogan, Stéphane Lavertu, Zachary Peskowitz. 2016. Do School Report Cards Produce Accountability Through the Ballot Box?. *Journal of Policy Analysis and Management* 35:3, 639-661. [[Crossref](#)]
2294. Matthew G. Springer, Walker A. Swain, Luis A. Rodriguez. 2016. Effective Teacher Retention Bonuses. *Educational Evaluation and Policy Analysis* 38:2, 199-221. [[Crossref](#)]

2295. Robin Jacob, Marie-Andree Somers, Pei Zhu, Howard Bloom. 2016. The Validity of the Comparative Interrupted Time Series Design for Evaluating the Effect of School-Level Interventions. *Evaluation Review* 40:3, 167-198. [[Crossref](#)]
2296. Matias D. Cattaneo, Rocío Titiunik, Gonzalo Vazquez-Bare. 2016. Inference in Regression Discontinuity Designs under Local Randomization. *The Stata Journal: Promoting communications on statistics and Stata* 16:2, 331-367. [[Crossref](#)]
2297. Brandon de la Cuesta, Kosuke Imai. 2016. Misunderstandings About the Regression Discontinuity Design in the Study of Close Elections. *Annual Review of Political Science* 19:1, 375-396. [[Crossref](#)]
2298. Rodney J. Andrews. 2016. Coordinated Admissions Program. *American Economic Review* 106:5, 343-347. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2299. Eugenio Rojas, Rafael Sánchez, Mauricio G. Villena. 2016. The Unintended Consequences of Childcare Regulation: Evidence from a Regression Discontinuity Design. *Journal of Applied Economics* 19:1, 1-39. [[Crossref](#)]
2300. Andrew T. Balthrop, Kurt E. Schnier. 2016. A regression discontinuity approach to measuring the effectiveness of oil and natural gas regulation to address the common-pool externality. *Resource and Energy Economics* 44, 118-138. [[Crossref](#)]
2301. JOHN HOLBEIN. 2016. Left Behind? Citizen Responsiveness to Government Performance Information. *American Political Science Review* 110:2, 353-368. [[Crossref](#)]
2302. Emily Rauscher. 2016. Does Educational Equality Increase Mobility? Exploiting Nineteenth-Century U.S. Compulsory Schooling Laws. *American Journal of Sociology* 121:6, 1697-1761. [[Crossref](#)]
2303. Reto Foellmi, Stefan Legge, Lukas Schmid. 2016. Do Professionals Get It Right? Limited Attention and Risk-taking Behaviour. *The Economic Journal* 126:592, 724-755. [[Crossref](#)]
2304. Jacob Wallace, Zirui Song. 2016. Traditional Medicare Versus Private Insurance: How Spending, Volume, And Price Change At Age Sixty-Five. *Health Affairs* 35:5, 864-872. [[Crossref](#)]
2305. IAN D. GOW, DAVID F. LARCKER, PETER C. REISS. 2016. Causal Inference in Accounting Research. *Journal of Accounting Research* 54:2, 477-523. [[Crossref](#)]
2306. Jing You. 2016. Lending to Parents and Insuring Children: Is There a Role for Microcredit in Complementing Health Insurance in Rural China?. *Health Economics* 25:5, 543-558. [[Crossref](#)]
2307. Tonya R. Moon. 2016. Commentary Regarding Bui, Craig, and Imberman (2011). *Journal of Advanced Academics* 27:2, 90-98. [[Crossref](#)]
2308. Saiying Steenbergen-Hu, Paula Olszewski-Kubilius. 2016. Gifted Identification and the Role of Gifted Education. *Journal of Advanced Academics* 27:2, 99-108. [[Crossref](#)]
2309. Lee Yoong Hon, Rasyad A. Parinduri. 2016. Does the Three-Point Rule Make Soccer More Exciting? Evidence From a Regression Discontinuity Design. *Journal of Sports Economics* 17:4, 377-395. [[Crossref](#)]
2310. Andrew Hanson, Ryan Sullivan. 2016. Incidence and Salience of Alcohol Taxes. *Public Finance Review* 44:3, 344-369. [[Crossref](#)]
2311. Ping Yu. 2016. Understanding Estimators of Treatment Effects in Regression Discontinuity Designs. *Econometric Reviews* 35:4, 586-637. [[Crossref](#)]
2312. Cheng Cheng. 2016. Does simplifying divorce and marriage registration matter? Evidence from China. *Applied Economics* 48:17, 1560-1572. [[Crossref](#)]

2313. Julia Kuzmina, Martin Carnoy. 2016. The effectiveness of vocational versus general secondary education. *International Journal of Manpower* 37:1, 2-24. [[Crossref](#)]
2314. Donna Feir, Thomas Lemieux, Vadim Marmer. 2016. Weak Identification in Fuzzy Regression Discontinuity Designs. *Journal of Business & Economic Statistics* 34:2, 185-196. [[Crossref](#)]
2315. Christoph Sajons. 2016. Does granting citizenship to immigrant children affect family outmigration?. *Journal of Population Economics* 29:2, 395-420. [[Crossref](#)]
2316. Caroline M. Hoxby, George B. Bulman. 2016. The effects of the tax deduction for postsecondary tuition: Implications for structuring tax-based aid. *Economics of Education Review* 51, 23-60. [[Crossref](#)]
2317. Tatiana Melguizo, Fabio Sanchez, Tatiana Velasco. 2016. Credit for Low-Income Students and Access to and Academic Performance in Higher Education in Colombia: A Regression Discontinuity Approach. *World Development* 80, 61-77. [[Crossref](#)]
2318. Matti Sarvimäki, Kari Hämäläinen. 2016. Integrating Immigrants: The Impact of Restructuring Active Labor Market Programs. *Journal of Labor Economics* 34:2, 479-508. [[Crossref](#)]
2319. Shao-Hsun Keng. 2016. The Effect of a Stricter Academic Dismissal Policy on Course Selection, Student Effort, and Grading Leniency. *Education Finance and Policy* 11:2, 203-224. [[Crossref](#)]
2320. Hung-Hao Chang, Tzu-Chin Lin. 2016. Does the Minimum Lot Size Program Affect Farmland Values? Empirical Evidence Using Administrative Data and Regression Discontinuity Design in Taiwan. *American Journal of Agricultural Economics* 98:3, 785-801. [[Crossref](#)]
2321. Joseph P. Robinson-Cimpian, Karen D. Thompson. 2016. The Effects of Changing Test-Based Policies for Reclassifying English Learners. *Journal of Policy Analysis and Management* 35:2, 279-305. [[Crossref](#)]
2322. John B. Holbein, D. Sunshine Hillygus. 2016. Making Young Voters: The Impact of Preregistration on Youth Turnout. *American Journal of Political Science* 60:2, 364-382. [[Crossref](#)]
2323. 2016. Effect of Named, Accountable GPs on Continuity of Care: Protocol for a Regression Discontinuity Study of a National Policy Change. *International Journal of Integrated Care* 1:1. . [[Crossref](#)]
2324. Douglas Almond, Ajin Lee, Amy Ellen Schwartz. 2016. Impacts of classifying New York City students as overweight. *Proceedings of the National Academy of Sciences* 113:13, 3488-3491. [[Crossref](#)]
2325. Ulrich Matter, Alois Stutzer. 2016. The role of party politics in medical malpractice tort reforms. *European Journal of Political Economy* 42, 17-35. [[Crossref](#)]
2326. Eric Sjöberg. 2016. An empirical study of federal law versus local environmental enforcement. *Journal of Environmental Economics and Management* 76, 14-31. [[Crossref](#)]
2327. Melissa Berger, Gerlinde Fellner-Röhling, Rupert Sausgruber, Christian Traxler. 2016. Higher taxes, more evasion? Evidence from border differentials in TV license fees. *Journal of Public Economics* 135, 74-86. [[Crossref](#)]
2328. Simon Luechinger, Florian Roth. 2016. Effects of a mileage tax for trucks. *Journal of Urban Economics* 92, 1-15. [[Crossref](#)]
2329. Raffaello Bronzini, Paolo Piselli. 2016. The impact of R&D subsidies on firm innovation. *Research Policy* 45:2, 442-457. [[Crossref](#)]
2330. Bernard L. Fraga, Julie Lee Merseth. 2016. Examining the Causal Impact of the Voting Rights Act Language Minority Provisions. *The Journal of Race, Ethnicity, and Politics* 1:1, 31-59. [[Crossref](#)]



2331. Aleksandar Giga, Richard J. Terrile, Andrea P. Belz, Fernando Zapatero. The impact of NASA's small business innovation research program on invention and innovation 1-8. [[Crossref](#)]
2332. Raymond Montizaan, Andries de Grip, Frank Cörvers, Thomas Dohmen. 2016. The Impact of Negatively Reciprocal Inclinations on Worker Behavior: Evidence from a Retrenchment of Pension Rights. *Management Science* **62**:3, 668-681. [[Crossref](#)]
2333. Federick Ngo, Tatiana Melguizo. 2016. How Can Placement Policy Improve Math Remediation Outcomes? Evidence From Experimentation in Community Colleges. *Educational Evaluation and Policy Analysis* **38**:1, 171-196. [[Crossref](#)]
2334. Spyros Konstantopoulos, Ting Shen. 2016. Class size effects on mathematics achievement in Cyprus: evidence from TIMSS. *Educational Research and Evaluation* **22**:1-2, 86-109. [[Crossref](#)]
2335. Inés Butler, Gabriela Galassi, Hernán Ruffo. 2016. Public funding for startups in Argentina: an impact evaluation. *Small Business Economics* **46**:2, 295-309. [[Crossref](#)]
2336. Thushyanthan Baskaran, Mariana Lopes da Fonseca. 2016. Electoral competition and endogenous political institutions: Quasi-experimental evidence from Germany. *Journal of Economic Behavior & Organization* **122**, 43-61. [[Crossref](#)]
2337. Felipe Carozzi, Luca Repetto. 2016. Sending the pork home: Birth town bias in transfers to Italian municipalities. *Journal of Public Economics* **134**, 42-52. [[Crossref](#)]
2338. Katrien Stevens. 2016. Regression Discontinuity Designs: An Introduction. *Australian Economic Review* **49**:2, 224-233. [[Crossref](#)]
2339. Sascha O. Becker, Katrin Boeckh, Christa Hainz, Ludger Woessmann. 2016. The Empire is Dead, Long Live the Empire! Long-Run Persistence of Trust and Corruption in the Bureaucracy. *The Economic Journal* **126**:590, 40-74. [[Crossref](#)]
2340. Anne Brink Nandrup. 2016. Do class size effects differ across grades?. *Education Economics* **24**:1, 83-95. [[Crossref](#)]
2341. Philip J. Cook, Songman Kang. 2016. Birthdays, Schooling, and Crime: Regression-Discontinuity Analysis of School Performance, Delinquency, Dropout, and Crime Initiation. *American Economic Journal: Applied Economics* **8**:1, 33-57. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2342. Jerzy Boehlke, Magdalena Osińska. Concept and Inference Based on Experiments in Economics 37-56. [[Crossref](#)]
2343. Robert K. Toutkoushian, Michael B. Paulsen. Demand and Supply in Higher Education 149-198. [[Crossref](#)]
2344. Xueying Lu. 2016. Effectiveness of government enforcement in driving restrictions: a case in Beijing, China. *Environmental Economics and Policy Studies* **18**:1, 63-92. [[Crossref](#)]
2345. Fernanda Leite Lopez de Leon, Renata Rizzi. 2016. Does forced voting result in political polarization?. *Public Choice* **166**:1-2, 143-160. [[Crossref](#)]
2346. . References 339-348. [[Crossref](#)]
2347. B. McCall, J. Smith, C. Wunsch. Government-Sponsored Vocational Education for Adults 479-652. [[Crossref](#)]
2348. Kazuya Fukushima, Sou Mizuoka, Shunsuke Yamamoto, Toshiaki Iizuka. 2016. Patient cost sharing and medical expenditures for the Elderly. *Journal of Health Economics* **45**, 115-130. [[Crossref](#)]

2349. Sauro Mocetti. 2016. Dynasties in professions and the role of rents and regulation: Evidence from Italian pharmacies. *Journal of Public Economics* **133**, 1-10. [[Crossref](#)]
2350. Patrick A. Puhani, Falko Tabbert. 2016. The effects of pension changes on age of first benefit receipt: Regression discontinuity evidence from repatriated ethnic Germans. *Labour Economics* **38**, 12-23. [[Crossref](#)]
2351. Emanuele Ciani. 2016. Retirement, pension eligibility and home production. *Labour Economics* **38**, 106-120. [[Crossref](#)]
2352. Luke Keele, Rocío Titiunik. 2016. Natural Experiments Based on Geography. *Political Science Research and Methods* **4**:1, 65-95. [[Crossref](#)]
2353. Maxwell Palmer, Benjamin Schneer. 2016. Capitol Gains: The Returns to Elected Office from Corporate Board Directorships. *The Journal of Politics* **78**:1, 181-196. [[Crossref](#)]
2354. Christian Hubert Ebeke, Mireille Ntsama Etoundi. 2016. Political cycle in graduation rates. *Oxford Economic Papers* **68**:1, 89-107. [[Crossref](#)]
2355. Murat G. Kırdar, Meltem Dayıoğlu, İsmet Koç. 2016. Does Longer Compulsory Education Equalize Schooling by Gender and Rural/Urban Residence?. *The World Bank Economic Review* **30**:3, 549-579. [[Crossref](#)]
2356. Patrick Button. 2016. Model Uncertainty and Model Averaging in Regression Discontinuity Designs. *Journal of Econometric Methods* **5**:1. . [[Crossref](#)]
2357. Lance Hannon, Robert DeFina. 2016. Can Incarceration Really Strip People of Racial Privilege?. *Sociological Science* **3**, 190-201. [[Crossref](#)]
2358. Thurston Domina, Andrew Penner, Emily Penner. 2016. 'Membership Has Its Privileges': Status Incentives and Categorical Inequality in Education. *Sociological Science* **3**, 264-295. [[Crossref](#)]
2359. Yue Qiu, Tao Shen. 2016. Organized Labor and Loan Pricing: A Regression Discontinuity Design Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
2360. Maximilian Eber, Camelia Minoiu. 2016. How Do Banks Adjust to Stricter Supervision?. *SSRN Electronic Journal* . [[Crossref](#)]
2361. Kai Hong, Ronald Zimmer. 2016. Does Investing in School Capital Infrastructure Improve Student Achievement?. *SSRN Electronic Journal* . [[Crossref](#)]
2362. Ke-Li Xu. 2016. Regression Discontinuity with Categorical Outcomes. *SSRN Electronic Journal* . [[Crossref](#)]
2363. Jie He, Xuan Tian, Huan Yang. 2016. Labor Unions and Payout Policy: A Regression Discontinuity Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
2364. Ian D. Gow, David F. Larcker, Peter C. Reiss. 2016. Causal Inference in Accounting Research. *SSRN Electronic Journal* **52**. . [[Crossref](#)]
2365. Margherita Fort, Andrea Ichino, Giulio Zanella. 2016. Cognitive and Non-Cognitive Costs of Daycare 002 for Girls. *SSRN Electronic Journal* **82**. . [[Crossref](#)]
2366. Ajay Shenoy. 2016. Regional Development Through Place-Based Policies: Evidence from a Spatial Discontinuity. *SSRN Electronic Journal* **2**. . [[Crossref](#)]
2367. Bahadır Dursun, Resul Cesur. 2016. Transforming Lives: The Impact of Compulsory Schooling on Hope and Happiness. *SSRN Electronic Journal* . [[Crossref](#)]

2368. Yingying Dong, Dennis Tao Yang. 2016. Mandatory Retirement and the Consumption Puzzle: Prices Decline or Quantities Decline?. *SSRN Electronic Journal* . [[Crossref](#)]
2369. Andrew Bird, Stephen A. Karolyi, Thomas G. Ruchti. 2016. Understanding the 'Numbers Game'. *SSRN Electronic Journal* . [[Crossref](#)]
2370. Jesse Michael Hinde. 2016. Incentive(less)? The Effectiveness of Tax Credits and Cost-Sharing Subsidies in the Affordable Care Act. *SSRN Electronic Journal* **126**. . [[Crossref](#)]
2371. Yupeng Lin, Zilong Zhang, Liping Zhao. 2016. Sharing the Surplus with Clients: The Protection of Bank Proprietary Information and Loan Pricing. *SSRN Electronic Journal* . [[Crossref](#)]
2372. Branko Bookovii, Linda NNstbakken. 2016. The Cost of Endangered Species Protection: Evidence from Auctions for Natural Resources. *SSRN Electronic Journal* . [[Crossref](#)]
2373. Roberto Pinto. 2016. Union Power and the Debt Maturity Structure. *SSRN Electronic Journal* . [[Crossref](#)]
2374. Branko Bookovii. 2016. Do Land Markets Anticipate Regulatory Change? Evidence from Canadian Conservation Policy. *SSRN Electronic Journal* . [[Crossref](#)]
2375. Gianmarco Daniele, Paul Vertier. 2016. Dynasties and the Political Budget Cycle. *SSRN Electronic Journal* **74**. . [[Crossref](#)]
2376. John B Holbein, Marcos A Rangel. 2016. Does Voting Have Upstream and Downstream Consequences? Evidence from Compulsory Voting in Brazil. *SSRN Electronic Journal* . [[Crossref](#)]
2377. Sam Asher. 2016. Politicians and Local Economic Growth: Evidence from India. *SSRN Electronic Journal* **98**. . [[Crossref](#)]
2378. Jennifer L. Doleac, Rasmus Landerss, Anne Sofie Tegner Anker. 2016. The Effects of DNA Databases on the Deterrence and Detection of Offenders. *SSRN Electronic Journal* . [[Crossref](#)]
2379. Sebastian Galiani, Patrick J. McEwan, Brian Quistorff. 2016. External and Internal Validity of a Geographic Quasi-Experiment Embedded in a Cluster-Randomized Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2380. Steven Mello. 2016. Police and Crime: Evidence from Cops 2.0. *SSRN Electronic Journal* **4**. . [[Crossref](#)]
2381. Diego Escobari, Nicholas G. Rupp, Joseph Meskey. 2016. Price Discrimination and Focal Points for Tacit Collusion: Evidence from the Airline Industry. *SSRN Electronic Journal* . [[Crossref](#)]
2382. Cuiping Long. 2016. Introduction of Head Start and Maternal Labor Supply: Evidence from a Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2383. Jeffrey Ferris. 2016. Wireless Alerts for Extreme Weather and the Impact on Hazard Mitigating Behavior. *SSRN Electronic Journal* . [[Crossref](#)]
2384. Maria Donovan Fitzpatrick, Timothy Moore. 2016. The Mortality Effects of Retirement: Evidence from Social Security Eligibility at Age 62. *SSRN Electronic Journal* . [[Crossref](#)]
2385. Olivier Bargain. 2016. The Effect of Social Benefits on Youth Employment: Combining RD and a Behavioral Model. *SSRN Electronic Journal* **24**. . [[Crossref](#)]
2386. Jaakko Merillinen, Janne Tukiainen. 2016. Primary Effect in Open-List Elections. *SSRN Electronic Journal* . [[Crossref](#)]
2387. Ben Crisman, Charles Kenny. 2016. The Impact of Legislation on the Hazard of Female Genital Mutilation/Cutting: Regression Discontinuity Evidence from Burkina Faso. *SSRN Electronic Journal* . [[Crossref](#)]

2388. Timothy B. Armstrong, Michal Kolesr. 2016. A Simple Adjustment for Bandwidth Snooping. *SSRN Electronic Journal* . [[Crossref](#)]
2389. Diana Contreras Suarez, Lisa A. Cameron. 2016. Conditional Cash Transfers: Do They Change Time Preferences and Educational Aspirations?. *SSRN Electronic Journal* . [[Crossref](#)]
2390. Carlos Sanz. 2016. The Effect of Electoral Systems on Voter Turnout: Evidence from a Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2391. Mahdi Majbouri. 2016. Sir! I'd Rather Go to School, Sir!. *SSRN Electronic Journal* . [[Crossref](#)]
2392. Andrew G. Meyer, Andrew Hanson, Daniel C. Hickman. 2016. Perceptions of Institutional Quality: Evidence of Limited Attention to Higher Education Rankings. *SSRN Electronic Journal* . [[Crossref](#)]
2393. Charles Kenny, Ben Crisman. 2016. Results Through Transparency: Does Publicity Lead to Better Procurement?. *SSRN Electronic Journal* . [[Crossref](#)]
2394. Omar A Guerrero, Ulrich Matter. 2016. Uncovering Vote Trading through Networks and Computation. *SSRN Electronic Journal* . [[Crossref](#)]
2395. Samuel Jung. 2016. Persistence of Confucian Values? Legacies of Colonization in China & Taiwan. *SSRN Electronic Journal* 6. . [[Crossref](#)]
2396. Thomas Buser, Huaiping Yuan. 2016. Do Women Give Up Competing More Easily? Evidence from the Lab and the Dutch Math Olympiad. *SSRN Electronic Journal* . [[Crossref](#)]
2397. Yu-Chin Hsu, Ta-Cheng Huang, Haiqing Xu. 2016. Testing for Unobserved Heterogeneous Treatment Effects. *SSRN Electronic Journal* . [[Crossref](#)]
2398. Evgeny Yakovlev. 2016. Demand for Alcohol Consumption and Implication for Mortality: Evidence from Russia. *SSRN Electronic Journal* . [[Crossref](#)]
2399. Eduard Calvo, Ruomeng Cui, Juan Camilo Serpa. 2016. Oversight and Efficiency in Public Projects: A Regression Discontinuity Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
2400. Shiyong Zhang, Zhong Ruoyu, Junchao Zhang. 2016. School Starting Age and Academic Achievement: Evidence from China's Junior High Schools. *SSRN Electronic Journal* 106. . [[Crossref](#)]
2401. Laurent Bach. 2016. Are Shareholder Votes Rigged?. *SSRN Electronic Journal* . [[Crossref](#)]
2402. Tom Grimstedt Meling. 2016. Tick Sizes in Illiquid Order Books. *SSRN Electronic Journal* . [[Crossref](#)]
2403. Kai Hong. 2016. School Bond Referendum, Capital Expenditure, and Student Achievement. *SSRN Electronic Journal* . [[Crossref](#)]
2404. Erkmen Giray Aslim. 2016. Does Medicaid Expansion Affect Employment Transitions?. *SSRN Electronic Journal* . [[Crossref](#)]
2405. Victor Westrupp. 2016. Foreclosure Sales and Recourse. *SSRN Electronic Journal* . [[Crossref](#)]
2406. Allison Carnegie, Cyrus Samii. 2016. International Institutions and Political Liberalization: Evidence from the World Bank Loans Program. *SSRN Electronic Journal* . [[Crossref](#)]
2407. Maria SSnchez-Vidal. 2016. Small Shops for Sale! The Effects of Big-Box Openings on Grocery Stores. *SSRN Electronic Journal* . [[Crossref](#)]
2408. Damilola Olajide, Divine Ikenwilo, Olufemi Bodunde Obembe, ngozi ibeji, Rufus Akindola. 2016. The Impact of a Rural Microcredit Scheme Targeting Women on Household Vulnerability and Empowerment: Evidence from South West Nigeria. *SSRN Electronic Journal* . [[Crossref](#)]

2409. Vitor Gaspar, Laura Jaramillo, Philippe Wingender. 2016. Tax Capacity and Growth: Is there a Tipping Point?. *IMF Working Papers* 16:234, 1. [[Crossref](#)]
2410. Alexander Hijzen, Pedro Martins. 2016. No Extension without Representation? Evidence from a Natural Experiment in Collective Bargaining. *IMF Working Papers* 16:143, 1. [[Crossref](#)]
2411. Mihailo Radoman. Bosman Ruling Implications on Player Productivity in the English Premier League 291-303. [[Crossref](#)]
2412. Tetyana Balyuk. 2016. Financial Innovation and Borrowers: Evidence from Peer-to-Peer Lending. *SSRN Electronic Journal* 133. . [[Crossref](#)]
2413. Yukun Liu, Xi Wu. 2016. Internal Corporate Governance and Cost of Bank Loans: Evidence from Shareholder Activism. *SSRN Electronic Journal* 23. . [[Crossref](#)]
2414. Cameron McNeill Ellis. 2016. Getting Crowded: Second-Order Effects of Medicaid Expansion Refusal. *SSRN Electronic Journal* 138. . [[Crossref](#)]
2415. Sebastian Jilke, Steven Van de Walle, Soonhee Kim. 2016. Generating Usable Knowledge through an Experimental Approach to Public Administration. *Public Administration Review* 76:1, 69-72. [[Crossref](#)]
2416. Robert W. Fairlie, Kanika Kapur, Susan Gates. 2016. Job Lock: Evidence from a Regression Discontinuity Design. *Industrial Relations: A Journal of Economy and Society* 55:1, 92-121. [[Crossref](#)]
2417. Alan I. Barreca, Jason M. Lindo, Glen R. Waddell. 2016. HEAPING-INDUCED BIAS IN REGRESSION-DISCONTINUITY DESIGNS. *Economic Inquiry* 54:1, 268-293. [[Crossref](#)]
2418. Syngjoo Choi, Lars Nesheim, Imran Rasul. 2016. RESERVE PRICE EFFECTS IN AUCTIONS: ESTIMATES FROM MULTIPLE REGRESSION-DISCONTINUITY DESIGNS. *Economic Inquiry* 54:1, 294-314. [[Crossref](#)]
2419. Yue Qiu. 2016. Debt Structure as a Strategic Bargaining Tool. *SSRN Electronic Journal* 56. . [[Crossref](#)]
2420. Miguel Urquiola. 2015. Progress and challenges in achieving an evidence-based education policy in Latin America and the Caribbean. *Latin American Economic Review* 24:1. . [[Crossref](#)]
2421. Loris Vergolini, Nadir Zanini. 2015. Away, but not too far from home. The effects of financial aid on university enrolment decisions. *Economics of Education Review* 49, 91-109. [[Crossref](#)]
2422. Christoph T. Weiss. 2015. Education and regional mobility in Europe. *Economics of Education Review* 49, 129-141. [[Crossref](#)]
2423. Jason T. Hustedt, Kwanghee Jung, W. Steven Barnett, Tonya Williams. 2015. Kindergarten Readiness Impacts of the Arkansas Better Chance State Prekindergarten Initiative. *The Elementary School Journal* 116:2, 198-216. [[Crossref](#)]
2424. Guido de Blasio, Davide Fantino, Guido Pellegrini. 2015. Evaluating the impact of innovation incentives: evidence from an unexpected shortage of funds. *Industrial and Corporate Change* 24:6, 1285-1314. [[Crossref](#)]
2425. Yingying Dong, Arthur Lewbel. 2015. Identifying the Effect of Changing the Policy Threshold in Regression Discontinuity Models. *Review of Economics and Statistics* 97:5, 1081-1092. [[Crossref](#)]
2426. Scott L. Fulford. 2015. How Important Are Banks for Development? National Banks in the United States, 1870–1900. *Review of Economics and Statistics* 97:5, 921-938. [[Crossref](#)]
2427. Daria M. McMahon, Vitaliy Y. Vdovenko, Yevgenia I. Stepanova, Wilfried Karmaus, Hongmei Zhang, Euridice Irving, Erik R. Svendsen. 2015. Dietary supplementation with radionuclide free

- food improves children's health following community exposure to <sup>137</sup>Cesium: a prospective study. *Environmental Health* **14**:1. . [[Crossref](#)]
2428. Fan Li, Alessandra Mattei, Fabrizia Mealli. 2015. Evaluating the causal effect of university grants on student dropout: Evidence from a regression discontinuity design using principal stratification. *The Annals of Applied Statistics* **9**:4, 1906-1931. [[Crossref](#)]
2429. Kelly Chen, Nicole Fortin, Shelley Phipps. 2015. Young in class: Implications for inattentive/hyperactive behaviour of Canadian boys and girls. *Canadian Journal of Economics/Revue canadienne d'économie* **48**:5, 1601-1634. [[Crossref](#)]
2430. Carissa L. Wonkka, William E. Rogers, Urs P. Kreuter. 2015. Legal barriers to effective ecosystem management: exploring linkages between liability, regulations, and prescribed fire. *Ecological Applications* **25**:8, 2382-2393. [[Crossref](#)]
2431. Seokjin Woo, Soohyung Lee, Kyunghye Kim. 2015. Carrot and stick?: Impact of a low-stakes school accountability program on student achievement. *Economics Letters* **137**, 195-199. [[Crossref](#)]
2432. Robert Bifulco, Leonard M. Lopoo, Sun Jung Oh. 2015. School Desegregation and Teenage Fertility. *Educational Evaluation and Policy Analysis* **37**:4, 591-611. [[Crossref](#)]
2433. Per Engström, Katarina Nordblom, Henry Ohlsson, Annika Persson. 2015. Tax Compliance and Loss Aversion. *American Economic Journal: Economic Policy* **7**:4, 132-164. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2434. Camille Landais. 2015. Assessing the Welfare Effects of Unemployment Benefits Using the Regression Kink Design. *American Economic Journal: Economic Policy* **7**:4, 243-278. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2435. Silvia Helena Barcellos, Mireille Jacobson. 2015. The Effects of Medicare on Medical Expenditure Risk and Financial Strain. *American Economic Journal: Economic Policy* **7**:4, 41-70. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2436. Michela Ponzio, Vincenzo Scoppa. 2015. Experts' awards and economic success: evidence from an Italian literary prize. *Journal of Cultural Economics* **39**:4, 341-367. [[Crossref](#)]
2437. Cevriye Aysoy, Duygu Halim Kirli, Semih Tumen. 2015. How does a shorter supply chain affect pricing of fresh food? Evidence from a natural experiment. *Food Policy* **57**, 104-113. [[Crossref](#)]
2438. Qihui Chen. 2015. Ready for school? Impacts of delayed primary school enrollment on children's educational outcomes in rural China. *International Journal of Educational Development* **45**, 112-128. [[Crossref](#)]
2439. Albert Park, Xinzhen Shi, Chang-tai Hsieh, Xuehui An. 2015. Magnet high schools and academic performance in China: A regression discontinuity design. *Journal of Comparative Economics* **43**:4, 825-843. [[Crossref](#)]
2440. Jack Porter, Ping Yu. 2015. Regression discontinuity designs with unknown discontinuity points: Testing and estimation. *Journal of Econometrics* **189**:1, 132-147. [[Crossref](#)]
2441. Michael Palmer, Sophie Mitra, Daniel Mont, Nora Groce. 2015. The impact of health insurance for children under age 6 in Vietnam: A regression discontinuity approach. *Social Science & Medicine* **145**, 217-226. [[Crossref](#)]
2442. Filippo Maria D'Arcangelo, Marco Percoco. 2015. Housing rent and road pricing in Milan: Evidence from a geographical discontinuity approach. *Transport Policy* **44**, 108-116. [[Crossref](#)]



2443. Jacob Bor, Pascal Geldsetzer, Atheendar Venkataramani, Till Bärnighausen. 2015. Quasi-experiments to establish causal effects of HIV care and treatment and to improve the cascade of care. *Current Opinion in HIV and AIDS* **10**:6, 495-501. [[Crossref](#)]
2444. Caroline Flammer. 2015. Does Corporate Social Responsibility Lead to Superior Financial Performance? A Regression Discontinuity Approach. *Management Science* **61**:11, 2549-2568. [[Crossref](#)]
2445. Andra C. Ghent, Rubén Hernández-Murillo, Michael T. Owyang. 2015. Did Affordable Housing Legislation Contribute to the Subprime Securities Boom?. *Real Estate Economics* **43**:4, 820-854. [[Crossref](#)]
2446. Miriam A. Golden, Lucio Picci. 2015. Incumbency Effects under Proportional Representation: Leaders and Backbenchers in the Postwar Italian Chamber of Deputies. *Legislative Studies Quarterly* **40**:4, 509-538. [[Crossref](#)]
2447. Beata Bieszk-Stolorz. 2015. Regression Discontinuity Design (RDD) to assess the effectiveness of the activation program of the unemployed aged 45/50+. *Wiadomości Statystyczne. The Polish Statistician* **60**:10, 29-44. [[Crossref](#)]
2448. Nicolas Pistoletti. 2015. 6. L'orientation active : une aide efficace pour choisir ses études ?. *Regards croisés sur l'économie* n° **16**:1, 105-116. [[Crossref](#)]
2449. Nathan Fiala. 2015. Economic Consequences of Forced Displacement. *The Journal of Development Studies* **51**:10, 1275-1293. [[Crossref](#)]
2450. Joshua D. Angrist, Miikka Rokkanen. 2015. Wanna Get Away? Regression Discontinuity Estimation of Exam School Effects Away From the Cutoff. *Journal of the American Statistical Association* **110**:512, 1331-1344. [[Crossref](#)]
2451. Sebastian Calonico, Matias D. Cattaneo, Rocio Titiunik. 2015. Optimal Data-Driven Regression Discontinuity Plots. *Journal of the American Statistical Association* **110**:512, 1753-1769. [[Crossref](#)]
2452. Michael G. Hudgens. 2015. Comment. *Journal of the American Statistical Association* **110**:512, 1345-1347. [[Crossref](#)]
2453. Louis-Philippe Beland. 2015. Political Parties and Labor-Market Outcomes: Evidence from US States. *American Economic Journal: Applied Economics* **7**:4, 198-220. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2454. Eliezer M. Fich, Jarrad Harford, Anh L. Tran. 2015. Motivated monitors: The importance of institutional investors' portfolio weights. *Journal of Financial Economics* **118**:1, 21-48. [[Crossref](#)]
2455. Alexander C. Tsai, Atheendar S. Venkataramani. 2015. The causal effect of education on HIV stigma in Uganda: Evidence from a natural experiment. *Social Science & Medicine* **142**, 37-46. [[Crossref](#)]
2456. David Muhlestein, Eric Seiber. 2015. Children's Insurance Coverage and Crowd-Out Through the Recession: Lessons From Ohio. *American Journal of Public Health* **105**:10, 2021-2027. [[Crossref](#)]
2457. Sylvia Allegretto, Carl Nadler. 2015. Tipped Wage Effects on Earnings and Employment in Full-Service Restaurants. *Industrial Relations: A Journal of Economy and Society* **54**:4, 622-647. [[Crossref](#)]
2458. Carla A. Green, Naihua Duan, Robert D. Gibbons, Kimberly E. Hoagwood, Lawrence A. Palinkas, Jennifer P. Wisdom. 2015. Approaches to Mixed Methods Dissemination and Implementation Research: Methods, Strengths, Caveats, and Opportunities. *Administration and Policy in Mental Health and Mental Health Services Research* **42**:5, 508-523. [[Crossref](#)]

2459. Abdul-Akeem Sadiq, Douglas Noonan. 2015. Local capacity and resilience to flooding: community responsiveness to the community ratings system program incentives. *Natural Hazards* **78**:2, 1413-1428. [[Crossref](#)]
2460. Olof Rosenqvist, Oskar Nordström Skans. 2015. Confidence enhanced performance? – The causal effects of success on future performance in professional golf tournaments. *Journal of Economic Behavior & Organization* **117**, 281-295. [[Crossref](#)]
2461. Audra L. Boone, Joshua T. White. 2015. The effect of institutional ownership on firm transparency and information production. *Journal of Financial Economics* **117**:3, 508-533. [[Crossref](#)]
2462. Peter Eibich. 2015. Understanding the effect of retirement on health: Mechanisms and heterogeneity. *Journal of Health Economics* **43**, 1-12. [[Crossref](#)]
2463. Peter H. Egger, Georg Wamser. 2015. The impact of controlled foreign company legislation on real investments abroad. A multi-dimensional regression discontinuity design. *Journal of Public Economics* **129**, 77-91. [[Crossref](#)]
2464. Kai-Lung Hui, I. P. L. Png. 2015. Research Note—Migration of Service to the Internet: Evidence from a Federal Natural Experiment. *Information Systems Research* **26**:3, 606-618. [[Crossref](#)]
2465. Elise Coudin, Anne Pla, Anne-Laure Samson. 2015. GP responses to price regulation: evidence from a French nationwide reform. *Health Economics* **24**:9, 1118-1130. [[Crossref](#)]
2466. Mark W. Lipsey, Christina Weiland, Hirokazu Yoshikawa, Sandra Jo Wilson, Kerry G. Hofer. 2015. The Prekindergarten Age-Cutoff Regression-Discontinuity Design. *Educational Evaluation and Policy Analysis* **37**:3, 296-313. [[Crossref](#)]
2467. Jacob Alex Klerman, Lauren E. W. Olsho, Susan Bartlett. 2015. Regression Discontinuity in Prospective Evaluations. *American Journal of Evaluation* **36**:3, 403-416. [[Crossref](#)]
2468. Patrick J. McEwan. 2015. Improving Learning in Primary Schools of Developing Countries. *Review of Educational Research* **85**:3, 353-394. [[Crossref](#)]
2469. Koichiro Ito. 2015. Asymmetric Incentives in Subsidies: Evidence from a Large-Scale Electricity Rebate Program. *American Economic Journal: Economic Policy* **7**:3, 209-237. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2470. Andrew Meyer. 2015. Does education increase pro-environmental behavior? Evidence from Europe. *Ecological Economics* **116**, 108-121. [[Crossref](#)]
2471. Jordi Blanes i Vidal, Clare Leaver. 2015. Bias in Open Peer-Review: Evidence from the English Superior Courts. *Journal of Law, Economics, and Organization* **31**:3, 431-471. [[Crossref](#)]
2472. Lisa Barrow, Ofer Malamud. 2015. Is College a Worthwhile Investment?. *Annual Review of Economics* **7**:1, 519-555. [[Crossref](#)]
2473. Aaron J. Sojourner, Brigham R. Frandsen, Robert J. Town, David C. Grabowski, Min M. Chen. 2015. Impacts of Unionization on Quality and Productivity. *ILR Review* **68**:4, 771-806. [[Crossref](#)]
2474. Steven Proud. 2015. Resits in higher education: merely a bar to jump over, or do they give a pedagogical 'leg up'?. *Assessment & Evaluation in Higher Education* **40**:5, 681-697. [[Crossref](#)]
2475. Maria De Paola, Vincenzo Scoppa. 2015. Procrastination, academic success and the effectiveness of a remedial program. *Journal of Economic Behavior & Organization* **115**, 217-236. [[Crossref](#)]
2476. Rudy Douven, Minke Remmerswaal, Ilaria Mosca. 2015. Unintended effects of reimbursement schedules in mental health care. *Journal of Health Economics* **42**, 139-150. [[Crossref](#)]

2477. Matthew Freedman. 2015. Place-based programs and the geographic dispersion of employment. *Regional Science and Urban Economics* **53**, 1-19. [[Crossref](#)]
2478. Noboru Hidano, Tadao Hoshino, Ayako Sugiura. 2015. The effect of seismic hazard risk information on property prices: Evidence from a spatial regression discontinuity design. *Regional Science and Urban Economics* **53**, 113-122. [[Crossref](#)]
2479. Sang-Wook Yi, Soon-Ae Shin, Youn-Jung Lee. 2015. Effectiveness of a low-intensity telephone counselling intervention on an untreated metabolic syndrome detected by national population screening in Korea: a non-randomised study using regression discontinuity design. *BMJ Open* **5**:7, e007603. [[Crossref](#)]
2480. Seun Jung. 2015. Does education affect risk aversion? Evidence from the British education reform. *Applied Economics* **47**:28, 2924-2938. [[Crossref](#)]
2481. Paul Redmond, John Regan. 2015. Incumbency advantage in a proportional electoral system: A regression discontinuity analysis of Irish elections. *European Journal of Political Economy* **38**, 244-256. [[Crossref](#)]
2482. Hector Galindo-Silva. 2015. New parties and policy outcomes: Evidence from Colombian local governments. *Journal of Public Economics* **126**, 86-103. [[Crossref](#)]
2483. Ronny Freier, Mathias Schumann, Thomas Siedler. 2015. The earnings returns to graduating with honors — Evidence from law graduates. *Labour Economics* **34**, 39-50. [[Crossref](#)]
2484. Anna Sjögren, Johan Vikström. 2015. How long and how much? Learning about the design of wage subsidies from policy changes and discontinuities. *Labour Economics* **34**, 127-137. [[Crossref](#)]
2485. Karthik Krishnan, Debarshi K. Nandy, Manju Puri. 2015. Does Financing Spur Small Business Productivity? Evidence from a Natural Experiment. *The Review of Financial Studies* **28**:6, 1768-1809. [[Crossref](#)]
2486. Yicheng Kang, Xiaodong Gong, Jiti Gao, Peihua Qiu. 2015. Jump detection in generalized error-in-variables regression with an application to Australian health tax policies. *The Annals of Applied Statistics* **9**:2, 883-900. [[Crossref](#)]
2487. Marcelo Rezende, Mary-Frances Styczynski. 2015. The Effects of Liquidity Regulation on Participation in the Term Deposit Facility. *FEDS Notes* **2015**:1545. . [[Crossref](#)]
2488. Paulo Bastos, Lucio Castro, Julian Cristia, Carlos Scartascini. 2015. Does Energy Consumption Respond to Price Shocks? Evidence from a Regression-Discontinuity Design. *The Journal of Industrial Economics* **63**:2, 249-278. [[Crossref](#)]
2489. Marc Meredith, Evan Perkoski. Regression Discontinuity Design 1-16. [[Crossref](#)]
2490. Susana Yu, Gwendolyn Webb, Kishore Tandon. 2015. What happens when a stock is added to the Nasdaq-100 index? What doesn't happen?. *Managerial Finance* **41**:5, 480-506. [[Crossref](#)]
2491. Hyuncheol Bryant Kim, Wilfredo Lim. 2015. Long-term care insurance, informal care, and medical expenditures. *Journal of Public Economics* **125**, 128-142. [[Crossref](#)]
2492. V. Brian Viard, Shihe Fu. 2015. The effect of Beijing's driving restrictions on pollution and economic activity. *Journal of Public Economics* **125**, 98-115. [[Crossref](#)]
2493. Peter H. Egger, Andrea Lassmann. 2015. The Causal Impact of Common Native Language on International Trade: Evidence from a Spatial Regression Discontinuity Design. *The Economic Journal* **125**:584, 699-745. [[Crossref](#)]

2494. Sridhar Narayanan, Kirithi Kalyanam. 2015. Position Effects in Search Advertising and their Moderators: A Regression Discontinuity Approach. *Marketing Science* 34:3, 388-407. [[Crossref](#)]
2495. John P. Papay, Richard J. Murnane, John B. Willett. 2015. Income-Based Inequality in Educational Outcomes. *Educational Evaluation and Policy Analysis* 37:1\_suppl, 29S-52S. [[Crossref](#)]
2496. T. H. Gindling, Nadwa Mossaad, Juan Diego Trejos. 2015. The Consequences of Increased Enforcement of Legal Minimum Wages in a Developing Country. *ILR Review* 68:3, 666-707. [[Crossref](#)]
2497. Gabrielle Fack, Julien Grenet. 2015. Improving College Access and Success for Low-Income Students: Evidence from a Large Need-Based Grant Program. *American Economic Journal: Applied Economics* 7:2, 1-34. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2498. Xiaobo Lü. 2015. Intergovernmental transfers and local education provision — Evaluating China's 8-7 National Plan for Poverty Reduction. *China Economic Review* 33, 200-211. [[Crossref](#)]
2499. Agne Suziedelyte, Anna Zhu. 2015. Does early schooling narrow outcome gaps for advantaged and disadvantaged children?. *Economics of Education Review* 45, 76-88. [[Crossref](#)]
2500. Jessica Pan. 2015. Gender Segregation in Occupations: The Role of Tipping and Social Interactions. *Journal of Labor Economics* 33:2, 365-408. [[Crossref](#)]
2501. Pedro Carneiro, Katrine V. Løken, Kjell G. Salvanes. 2015. A Flying Start? Maternity Leave Benefits and Long-Run Outcomes of Children. *Journal of Political Economy* 123:2, 365-412. [[Crossref](#)]
2502. Sharad Tandon. 2015. Taxation and Political Mobilization: Evidence from Andhra Pradesh. *Economic Development and Cultural Change* 63:3, 515-549. [[Crossref](#)]
2503. Yingying Dong. 2015. Regression Discontinuity Applications with Rounding Errors in the Running Variable. *Journal of Applied Econometrics* 30:3, 422-446. [[Crossref](#)]
2504. Daniel M. Leeds, Michael A. Leeds, Akira Motomura. 2015. ARE SUNK COSTS IRRELEVANT? EVIDENCE FROM PLAYING TIME IN THE NATIONAL BASKETBALL ASSOCIATION. *Economic Inquiry* 53:2, 1305-1316. [[Crossref](#)]
2505. Eleftherios Giovanis. 2015. The Effect of Smog-Ozone Warnings and a Vanpool Program on Traffic Volume in York County of South Carolina. *Environment and Planning B: Planning and Design* 42:2, 195-220. [[Crossref](#)]
2506. Thomas S. Dee, James Wyckoff. 2015. Incentives, Selection, and Teacher Performance: Evidence from IMPACT. *Journal of Policy Analysis and Management* 34:2, 267-297. [[Crossref](#)]
2507. Chung Choe, Alfonso Flores-Lagunes, Sang-Jun Lee. 2015. Do dropouts with longer training exposure benefit from training programs? Korean evidence employing methods for continuous treatments. *Empirical Economics* 48:2, 849-881. [[Crossref](#)]
2508. Yonca Ertimur, Fabrizio Ferri, David Oesch. 2015. Does the director election system matter? Evidence from majority voting. *Review of Accounting Studies* 20:1, 1-41. [[Crossref](#)]
2509. Emanuele Bracco, Ben Lockwood, Francesco Porcelli, Michela Redoano. 2015. Intergovernmental grants as signals and the alignment effect: Theory and evidence. *Journal of Public Economics* 123, 78-91. [[Crossref](#)]
2510. Sebastian Garmann. 2015. Elected or appointed? How the nomination scheme of the city manager influences the effects of government fragmentation. *Journal of Urban Economics* 86, 26-42. [[Crossref](#)]

2511. Jacob Bor, Ellen Moscoe, Till Bärnighausen. 2015. Three Approaches to Causal Inference in Regression Discontinuity Designs. *Epidemiology* 26:2, e28-e30. [[Crossref](#)]
2512. Matias D. Cattaneo, Brigham R. Frandsen, Rocío Titiunik. 2015. Randomization Inference in the Regression Discontinuity Design: An Application to Party Advantages in the U.S. Senate. *Journal of Causal Inference* 3:1, 1-24. [[Crossref](#)]
2513. Nayan Krishna Joshi. 2015. Party Politics, Governors, and Healthcare Expenditures. *Economics & Politics* 27:1, 53-77. [[Crossref](#)]
2514. J. Sebastian Leguizamon, George W. Hammond. 2015. Merit-based college tuition assistance and the conditional probability of in-state work. *Papers in Regional Science* 94:1, 197-219. [[Crossref](#)]
2515. Hai Zhong. 2015. Does a college education cause better health and health behaviours?. *Applied Economics* 47:7, 639-653. [[Crossref](#)]
2516. Irena Grosfeld, Ekaterina Zhuravskaya. 2015. Cultural vs. economic legacies of empires: Evidence from the partition of Poland. *Journal of Comparative Economics* 43:1, 55-75. [[Crossref](#)]
2517. Ellen Moscoe, Jacob Bor, Till Bärnighausen. 2015. Regression discontinuity designs are underutilized in medicine, epidemiology, and public health: a review of current and best practice. *Journal of Clinical Epidemiology* 68:2, 132-143. [[Crossref](#)]
2518. Amy Kwan, Ronald Masulis, Thomas H. McInish. 2015. Trading rules, competition for order flow and market fragmentation. *Journal of Financial Economics* 115:2, 330-348. [[Crossref](#)]
2519. Christina Gathmann, Hendrik Jürges, Steffen Reinhold. 2015. Compulsory schooling reforms, education and mortality in twentieth century Europe. *Social Science & Medicine* 127, 74-82. [[Crossref](#)]
2520. Shanika Samarakoon, Rasyad A. Parinduri. 2015. Does Education Empower Women? Evidence from Indonesia. *World Development* 66, 428-442. [[Crossref](#)]
2521. Matthew Gentzkow, Nathan Petek, Jesse M. Shapiro, Michael Sinkinson. 2015. DO NEWSPAPERS SERVE THE STATE? INCUMBENT PARTY INFLUENCE ON THE US PRESS, 1869-1928. *Journal of the European Economic Association* 13:1, 29-61. [[Crossref](#)]
2522. MARK J. GARMAISE. 2015. Borrower Misreporting and Loan Performance. *The Journal of Finance* 70:1, 449-484. [[Crossref](#)]
2523. Andrew Gelman, Adam Zelizer. 2015. Evidence on the deleterious impact of sustained use of polynomial regression on causal inference. *Research & Politics* 2:1. . [[Crossref](#)]
2524. Peter M. Steiner, Yongnam Kim. Quasi-Experiments 1-12. [[Crossref](#)]
2525. Michael Hurwitz, Jonathan Smith, Jessica S. Howell. 2015. Student Age and the Collegiate Pathway. *Journal of Policy Analysis and Management* 34:1, 59-84. [[Crossref](#)]
2526. Nathaniel Baum-Snow, Fernando Ferreira. Causal Inference in Urban and Regional Economics 3-68. [[Crossref](#)]
2527. David Neumark, Helen Simpson. Place-Based Policies 1197-1287. [[Crossref](#)]
2528. Vibeke Myrup Jensen, Miriam Wüst. 2015. Can Caesarean section improve child and maternal health? The case of breech babies. *Journal of Health Economics* 39, 289-302. [[Crossref](#)]
2529. Luke J. Keele, Rocío Titiunik. 2015. Geographic Boundaries as Regression Discontinuities. *Political Analysis* 23:1, 127-155. [[Crossref](#)]
2530. Luke Keele. 2015. The Statistics of Causal Inference: A View from Political Methodology. *Political Analysis* 23:3, 313-335. [[Crossref](#)]

2531. Yen-Cheng Chang, Harrison Hong, Inessa Liskovich. 2015. Regression Discontinuity and the Price Effects of Stock Market Indexing. *Review of Financial Studies* **28**:1, 212-246. [[Crossref](#)]
2532. David Card, Zhuan Pei, David Lee, Andrea Weber. 2015. Inference on Causal Effects in a Generalized Regression Kink Design. *SSRN Electronic Journal* . [[Crossref](#)]
2533. Ron Kaniel, Robert Parham. 2015. WSJ Category Kings - The Impact of Media Attention on Consumer and Mutual Fund Investment Decisions. *SSRN Electronic Journal* . [[Crossref](#)]
2534. John Holbein, Helen F. Ladd. 2015. Accountability Pressure and Non-Achievement Student Behaviors. *SSRN Electronic Journal* . [[Crossref](#)]
2535. Andreas Thiemann. 2015. Family Pension Benefits and Maternal Employment: Evidence from Germany. *SSRN Electronic Journal* . [[Crossref](#)]
2536. Melissa Berger, Gerlinde Fellner, Rupert Sausgruber, Christian Traxler. 2015. Higher Taxes, More Evasion? Evidence from Border Differentials in TV License Fees. *SSRN Electronic Journal* . [[Crossref](#)]
2537. Peter Egger, Andrea Lassmann. 2015. The Causal Impact of Common Native Language on International Trade: Evidence from a Spatial Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2538. Xiqian Cai, Jie Gong, Yi Lu, Songfa Zhong. 2015. Recover Overnight? Work Interruption and Worker Productivity. *SSRN Electronic Journal* . [[Crossref](#)]
2539. Prasanna L. Tantri, Nagaraju Thota. 2015. How Does Debt Relief Impact Consumption?: Evidence from a Policy Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2540. Florens Simon Flues, Benjamin Johannes Lutz. 2015. The Effect of Electricity Taxation on the German Manufacturing Sector: A Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2541. Chiara Falco. 2015. Education and Migration: Empirical Evidence from Ecuador. *SSRN Electronic Journal* . [[Crossref](#)]
2542. Xiaodong Gong, Jiti Gao. 2015. Nonparametric Kernel Estimation of the Impact of Tax Policy on the Demand for Private Health Insurances in Australia. *SSRN Electronic Journal* . [[Crossref](#)]
2543. Andrew Bird, Stephen A. Karolyi. 2015. Do Institutional Investors Demand Public Disclosure?. *SSRN Electronic Journal* . [[Crossref](#)]
2544. Mariana Lopes da Fonseca, Thushyanthan Baskaran. 2015. Electoral Competition and Endogenous Political Institutions: Quasi-Experimental Evidence from Germany. *SSRN Electronic Journal* . [[Crossref](#)]
2545. Mariana Lopes da Fonseca. 2015. Political Determinants of Municipal Accounts: Quasi-Experimental Evidence from Portugal. *SSRN Electronic Journal* . [[Crossref](#)]
2546. Jeffrey L. Furman, Jizhen Li, Yanbo Wang. 2015. Firm Performance and State Innovation Funding: Evidence from China's Innofund Program. *SSRN Electronic Journal* . [[Crossref](#)]
2547. Alan D. Crane, Kevin Crotty, Sebastien Michenaud, Patricia L. Naranjo. 2015. The Causal Effects of Short-Selling Bans: Evidence from Eligibility Thresholds. *SSRN Electronic Journal* . [[Crossref](#)]
2548. Michihito Ando. 2015. Heterogeneous Effects of Fiscal Equalization Grants on Local Expenditures: Evidence from Two Formula-Based Variations. *SSRN Electronic Journal* . [[Crossref](#)]
2549. Michihito Ando, Reo Takaku. 2015. Affordable False Teeth: The Effects of Patient Cost Sharing on Denture Utilization and Subjective Chewing Ability. *SSRN Electronic Journal* . [[Crossref](#)]



2550. Andreas Gerster. 2015. Do Electricity Prices Matter? Plant-Level Evidence from German Manufacturing. *SSRN Electronic Journal* . [[Crossref](#)]
2551. Louise A. Grogan, Fraser Summerfield. 2015. Government Transfers, Work and Social Norms: Evidence from the Russian Old-Age Pension, 1990-2011. *SSRN Electronic Journal* . [[Crossref](#)]
2552. Louis-Philippe Beland, Vincent Boucher. 2015. Polluting Politics. *SSRN Electronic Journal* . [[Crossref](#)]
2553. Matthew T Panhans, John D. Singleton. 2015. The Empirical Economist's Toolkit: From Models to Methods. *SSRN Electronic Journal* 25. . [[Crossref](#)]
2554. Carolina Caetano, Juan Carlos Escanciano. 2015. Identifying Multiple Marginal Effects with a Single Binary Instrument or by Regression Discontinuity. *SSRN Electronic Journal* . [[Crossref](#)]
2555. Caroline Flammer, Ioannis Ioannou. 2015. The Dog that Didn't Bark: Long-Term Strategies in Times of Recession. *SSRN Electronic Journal* . [[Crossref](#)]
2556. Fabian Wahl. 2015. The Long Shadow of History. Roman Legacy and Economic Development -- Evidence from the German Limes. *SSRN Electronic Journal* . [[Crossref](#)]
2557. Nayana Bose. 2015. Raising Consumption Through India's National Rural Employment Guarantee Scheme. *SSRN Electronic Journal* . [[Crossref](#)]
2558. Yi Lu, Jin Wang, Lianming Zhu. 2015. Do Place-Based Policies Work? Micro-Level Evidence from China's Economic Zone Program. *SSRN Electronic Journal* 115. . [[Crossref](#)]
2559. Rakesh Banerjee, Ashish Sachdeva. 2015. Pathways to Preventive Health, Evidence from India's Rural Road Program. *SSRN Electronic Journal* . [[Crossref](#)]
2560. Timothy B. Armstrong, Michal Kolesar. 2015. A Simple Adjustment for Bandwidth Snooping. *SSRN Electronic Journal* . [[Crossref](#)]
2561. Miron Tequame, Nyasha Tirivayi. 2015. Higher Education and Fertility: Evidence from a Natural Experiment in Ethiopia. *SSRN Electronic Journal* . [[Crossref](#)]
2562. Casey J. Wichman. 2015. Information Provision and Consumer Behavior: A Natural Experiment in Billing Frequency. *SSRN Electronic Journal* . [[Crossref](#)]
2563. Andreas Thiemann. 2015. Pension Wealth and Maternal Employment: Evidence from a Reform of the German Child Care Pension Benefit. *SSRN Electronic Journal* . [[Crossref](#)]
2564. Therese C. Scharlemann, Stephen H. Shore. 2015. The Effect of Negative Equity on Mortgage Default: Evidence from HAMP PRA. *SSRN Electronic Journal* . [[Crossref](#)]
2565. Kenichi Ariga, Yusaku Horiuchi, Roland A Mansilla, Michio Umeda. 2015. No Sorting, No Advantage: Regression Discontinuity Estimates of Incumbency Advantage in Japan. *SSRN Electronic Journal* . [[Crossref](#)]
2566. Tom Grimstedt Meling. 2015. Anonymous Trading in Equities. *SSRN Electronic Journal* . [[Crossref](#)]
2567. Thomaz M. F. Gemignani. 2015. Political Career Building and the Electoral Effect of Incumbency: Evidence from Brazil. *SSRN Electronic Journal* . [[Crossref](#)]
2568. Xuan Tian, Wenyu Wang. 2015. Hard Marriage with Heavy Burdens: Labor Unions as Takeover Deterrents. *SSRN Electronic Journal* . [[Crossref](#)]
2569. Xiaodong Gong. 2015. Nonparametric Kernel Estimation of the Impact of Tax Policy on the Demand for Private Health Insurance in Australia. *SSRN Electronic Journal* . [[Crossref](#)]

2570. Pauline Leung, Christopher J. O'Leary. 2015. Should UI Eligibility Be Expanded to Low-Earning Workers? Evidence on Employment, Transfer Receipt, and Income from Administrative Data. *SSRN Electronic Journal* . [[Crossref](#)]
2571. Devin Caughey, Chris Warshaw, Yiqing Xu. 2015. The Policy Effects of the Partisan Composition of State Government. *SSRN Electronic Journal* . [[Crossref](#)]
2572. Chris Ryan, Anna Zhu. 2015. Sibling Health, Schooling and Longer-Term Developmental Outcomes. *SSRN Electronic Journal* 7. . [[Crossref](#)]
2573. Kathryn H. Anderson, Xue Gong, Kai Hong, Xi Zhang. 2015. Do Selective High Schools Improve Student Achievement? Effects of Exam Schools in China. *SSRN Electronic Journal* . [[Crossref](#)]
2574. Jan Palguta. 2015. Political Rent-Seeking in Public Procurement: Evidence from the Entry of Political Challengers at Electoral Thresholds. *SSRN Electronic Journal* . [[Crossref](#)]
2575. Sabrina T Howell. 2015. Financing Constraints as Barriers to Innovation: Evidence from R&D Grants to Energy Startups. *SSRN Electronic Journal* . [[Crossref](#)]
2576. Giancarlo Spagnolo, Decio Coviello, Andrea Guglielmo. 2015. The Effect of Discretion on Procurement Performance. *SSRN Electronic Journal* . [[Crossref](#)]
2577. Clemens Bonner. 2015. Preferential Regulatory Treatment and Bankss Demand for Government Bonds. *SSRN Electronic Journal* . [[Crossref](#)]
2578. Rajeev Darolia. 2015. Income-Tested College Financial Aid and Labor Disincentives. *SSRN Electronic Journal* . [[Crossref](#)]
2579. Josh Lerner, Antoinette Schoar, Stanislav Sokolinski, Karen E. Wilson. 2015. The Globalization of Angel Investments: Evidence across Countries. *SSRN Electronic Journal* . [[Crossref](#)]
2580. Charles Cao, Matthew Gustafson, Raisa Velthuis. 2015. Index Membership and Small Firm Financing: New Evidence on the Bank Hold-Up Problem. *SSRN Electronic Journal* . [[Crossref](#)]
2581. Francesca Carta, Lucia Rizzica. 2015. Female Employment and Pre-Kindergarten: On the Untinted Effects of an Italian Reform. *SSRN Electronic Journal* 103. . [[Crossref](#)]
2582. Raymond Michel Montizaan, Andries de Grip, Frank CCrvers, Thomas J. Dohmen. 2015. The Impact of Negatively Reciprocal Inclinations on Worker Behavior: Evidence from a Retrenchment of Pension Rights. *SSRN Electronic Journal* . [[Crossref](#)]
2583. Najat el Mekkaoui De Freitas, BBranggre Legendre. 2015. Pension Information and Retirement Planning in France: An Evaluation of Public Policy. *SSRN Electronic Journal* . [[Crossref](#)]
2584. Barbara Engels, Johannes Geyer, Peter Haan. 2015. Labor Supply and the Pension System - Evidence from a Regression Kink Design. *SSRN Electronic Journal* . [[Crossref](#)]
2585. George Karabatsos, Stephen G. Walker. A Bayesian Nonparametric Causal Model for Regression Discontinuity Designs 403-421. [[Crossref](#)]
2586. Brian C. Britt. Stepwise Segmented Regression Analysis: An Iterative Statistical Algorithm to Detect and Quantify Evolutionary and Revolutionary Transformations in Longitudinal Data 125-144. [[Crossref](#)]
2587. Robert P. Bartlett, Justin McCrary. 2015. Dark Trading at the Midpoint: Pricing Rules, Order Flow and High Frequency Liquidity Provision. *SSRN Electronic Journal* 5. . [[Crossref](#)]
2588. Priscillia E. Hunt, Jeremy Miles. The Impact of Legalizing and Regulating Weed: Issues with Study Design and Emerging Findings in the USA 173-198. [[Crossref](#)]

2589. Luke Keele, Rocío Titiunik, José R. Zubizarreta. 2015. Enhancing a Geographic Regression Discontinuity Design Through Matching to Estimate the Effect of Ballot Initiatives on Voter Turnout. *Journal of the Royal Statistical Society Series A: Statistics in Society* **178**:1, 223-239. [[Crossref](#)]
2590. Andrew C. Eggers, Anthony Fowler, Jens Hainmueller, Andrew B. Hall, James M. Snyder. 2015. On the Validity of the Regression Discontinuity Design for Estimating Electoral Effects: New Evidence from Over 40,000 Close Races. *American Journal of Political Science* **59**:1, 259-274. [[Crossref](#)]
2591. Andrew Kerner. 2015. Can Foreign Stock Investors Influence Policymaking?. *Comparative Political Studies* **48**:1, 35-64. [[Crossref](#)]
2592. Sebastian Garmann. 2014. The causal effect of coalition governments on fiscal policies: evidence from a Regression Kink Design. *Applied Economics* **46**:36, 4490-4507. [[Crossref](#)]
2593. Kamhon Kan, Shu-Fen Li, Wei-Der Tsai. 2014. The impact of global budgeting on treatment intensity and outcomes. *International Journal of Health Care Finance and Economics* **14**:4, 311-337. [[Crossref](#)]
2594. Russell C. Callaghan, Jodi M. Gatley, Marcos Sanches, Mark Asbridge. 2014. Impacts of the Minimum Legal Drinking Age on Motor Vehicle Collisions in Québec, 2000-2012. *American Journal of Preventive Medicine* **47**:6, 788-795. [[Crossref](#)]
2595. Hai Zhong. 2014. The effect of sibling size on children's health: a regression discontinuity design approach based on China's one-child policy. *China Economic Review* **31**, 156-165. [[Crossref](#)]
2596. Jilleah G. Welch. 2014. HOPE for community college students: The impact of merit aid on persistence, graduation, and earnings. *Economics of Education Review* **43**, 1-20. [[Crossref](#)]
2597. Masataka Harada, Daniel M. Smith. 2014. You have to pay to play: Candidate and party responses to the high cost of elections in Japan. *Electoral Studies* **36**, 51-64. [[Crossref](#)]
2598. Laura Hospido, Gema Zamarro. 2014. Retirement patterns of couples in Europe. *IZA Journal of European Labor Studies* **3**:1. . [[Crossref](#)]
2599. Ana Luiza Neves de Holanda Barbosa, Carlos Henrique Leite Corseuil. 2014. Conditional cash transfer and informality in Brazil. *IZA Journal of Labor & Development* **3**:1. . [[Crossref](#)]
2600. Marguerite E. Burns, Laura Dague, Thomas DeLeire, Mary Dorsch, Donna Friedsam, Lindsey Jeanne Leininger, Gaston Palmucci, John Schmelzer, Kristen Voskuil. 2014. The Effects of Expanding Public Insurance to Rural Low-Income Childless Adults. *Health Services Research* **49**:S2, 2173-2187. [[Crossref](#)]
2601. Sebastian Calonico, Matias D. Cattaneo, Rocío Titiunik. 2014. Robust Data-Driven Inference in the Regression-Discontinuity Design. *The Stata Journal: Promoting communications on statistics and Stata* **14**:4, 909-946. [[Crossref](#)]
2602. Mohammad Mahbubur Rahman. 2014. Estimating the Average Treatment Effect of Social Safety Net Programmes in Bangladesh. *The Journal of Development Studies* **50**:11, 1550-1569. [[Crossref](#)]
2603. Eduardo Fé. 2014. Estimation and inference in regression discontinuity designs with asymmetric kernels. *Journal of Applied Statistics* **41**:11, 2406-2417. [[Crossref](#)]
2604. Raffaello Bronzini, Eleonora Iachini. 2014. Are Incentives for R&D Effective? Evidence from a Regression Discontinuity Approach. *American Economic Journal: Economic Policy* **6**:4, 100-134. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]

2605. Pedro Carneiro, Rita Ginja. 2014. Long-Term Impacts of Compensatory Preschool on Health and Behavior: Evidence from Head Start. *American Economic Journal: Economic Policy* 6:4, 135-173. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2606. Lex Borghans, Anne C. Gielen, Erzo F. P. Luttmer. 2014. Social Support Substitution and the Earnings Rebound: Evidence from a Regression Discontinuity in Disability Insurance Reform. *American Economic Journal: Economic Policy* 6:4, 34-70. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2607. Fernanda Leite Lopez de Leon, Renata Rizzi. 2014. A Test for the Rational Ignorance Hypothesis: Evidence from a Natural Experiment in Brazil. *American Economic Journal: Economic Policy* 6:4, 380-398. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2608. Casey J. Wichman. 2014. Perceived price in residential water demand: Evidence from a natural experiment. *Journal of Economic Behavior & Organization* 107, 308-323. [[Crossref](#)]
2609. Katrina Jessoe, David Rapson, Jeremy B. Smith. 2014. Towards understanding the role of price in residential electricity choices: Evidence from a natural experiment. *Journal of Economic Behavior & Organization* 107, 191-208. [[Crossref](#)]
2610. Alison L. Sexton, Timothy K.M. Beatty. 2014. Behavioral responses to Daylight Savings Time. *Journal of Economic Behavior & Organization* 107, 290-307. [[Crossref](#)]
2611. Leon J.H. Bettendorf, Kees Folmer, Egbert L.W. Jongen. 2014. The dog that did not bark: The EITC for single mothers in the Netherlands. *Journal of Public Economics* 119, 49-60. [[Crossref](#)]
2612. Sebastian Calonico, Matias D. Cattaneo, Rocio Titiunik. 2014. Robust Nonparametric Confidence Intervals for Regression-Discontinuity Designs. *Econometrica* 82:6, 2295-2326. [[Crossref](#)]
2613. Allyson Flaster, Stephen L. DesJardins. 2014. Applying Regression Discontinuity Design in Institutional Research. *New Directions for Institutional Research* 2014:161, 3-20. [[Crossref](#)]
2614. Dake Zhang, Qiu Wang, Yi Ding, Jeremy Jian Liu. 2014. Testing Accommodation or Modification?. *Journal of Learning Disabilities* 47:6, 569-583. [[Crossref](#)]
2615. Timothy K.M. Beatty, Laura Blow, Thomas F. Crossley, Cormac O'Dea. 2014. Cash by any other name? Evidence on labeling from the UK Winter Fuel Payment. *Journal of Public Economics* 118, 86-96. [[Crossref](#)]
2616. James Kai-sing Kung. 2014. The Emperor Strikes Back: Political Status, Career Incentives and Grain Procurement during China's Great Leap Famine. *Political Science Research and Methods* 2:2, 179-211. [[Crossref](#)]
2617. Seth D. Zimmerman. 2014. The Returns to College Admission for Academically Marginal Students. *Journal of Labor Economics* 32:4, 711-754. [[Crossref](#)]
2618. Claire Crawford, Lorraine Dearden, Ellen Greaves. 2014. The Drivers of Month-of-Birth Differences in Children's Cognitive and Non-Cognitive Skills. *Journal of the Royal Statistical Society Series A: Statistics in Society* 177:4, 829-860. [[Crossref](#)]
2619. O. Poldin, M. Yudkevich. 2014. Impact of Merit-based Financial Aid on Student achievement. *Voprosy Ekonomiki* :9, 112-126. [[Crossref](#)]
2620. Laura Dague. 2014. The effect of Medicaid premiums on enrollment: A regression discontinuity approach. *Journal of Health Economics* 37, 1-12. [[Crossref](#)]
2621. Denis Cogneau, Alexander Moradi. 2014. Borders That Divide: Education and Religion in Ghana and Togo Since Colonial Times. *The Journal of Economic History* 74:3, 694-729. [[Crossref](#)]

2622. Jonathan Goyette. 2014. The determinants of the size distribution of firms in Uganda. *The European Journal of Development Research* **26**:4, 456-472. [[Crossref](#)]
2623. Jacob Bor, Ellen Moscoe, Portia Mutevedzi, Marie-Louise Newell, Till Bärnighausen. 2014. Regression Discontinuity Designs in Epidemiology. *Epidemiology* **25**:5, 729-737. [[Crossref](#)]
2624. Carmen Antón, Carmen Camarero, Rebeca San José. 2014. Public Employee Acceptance of New Technological Processes: The case of an internal call centre. *Public Management Review* **16**:6, 852-875. [[Crossref](#)]
2625. Antonio Bento, Daniel Kaffine, Kevin Roth, Matthew Zaragoza-Watkins. 2014. The Effects of Regulation in the Presence of Multiple Unpriced Externalities: Evidence from the Transportation Sector. *American Economic Journal: Economic Policy* **6**:3, 1-29. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2626. Sa A. Bui, Steven G. Craig, Scott A. Imberman. 2014. Is Gifted Education a Bright Idea? Assessing the Impact of Gifted and Talented Programs on Students. *American Economic Journal: Economic Policy* **6**:3, 30-62. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2627. Todd Pughatch, Elizabeth Schroeder. 2014. Incentives for teacher relocation: Evidence from the Gambian hardship allowance. *Economics of Education Review* **41**, 120-136. [[Crossref](#)]
2628. Rasyad A. Parinduri. 2014. Do children spend too much time in schools? Evidence from a longer school year in Indonesia. *Economics of Education Review* **41**, 89-104. [[Crossref](#)]
2629. Nicholas E. Burger, Daniel T. Kaffine, Bob Yu. 2014. Did California's hand-held cell phone ban reduce accidents?. *Transportation Research Part A: Policy and Practice* **66**, 162-172. [[Crossref](#)]
2630. JEREMY FERWERDA, NICHOLAS L. MILLER. 2014. Political Devolution and Resistance to Foreign Rule: A Natural Experiment. *American Political Science Review* **108**:3, 642-660. [[Crossref](#)]
2631. Sam Allgood. 2014. Publishing Research in the JEE. *The Journal of Economic Education* **45**:3, 277-283. [[Crossref](#)]
2632. Gordon B. Dahl, Katrine V. Løken, Magne Mogstad. 2014. Peer Effects in Program Participation. *American Economic Review* **104**:7, 2049-2074. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2633. Hitoshi Shigeoka. 2014. The Effect of Patient Cost Sharing on Utilization, Health, and Risk Protection. *American Economic Review* **104**:7, 2152-2184. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2634. Adrienne M. Lucas, Isaac M. Mbiti. 2014. Effects of School Quality on Student Achievement: Discontinuity Evidence from Kenya. *American Economic Journal: Applied Economics* **6**:3, 234-263. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2635. Will Dobbie, Roland G. Fryer, Jr.. 2014. The Impact of Attending a School with High-Achieving Peers: Evidence from the New York City Exam Schools. *American Economic Journal: Applied Economics* **6**:3, 58-75. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2636. Sheetal Sekhri. 2014. Wells, Water, and Welfare: The Impact of Access to Groundwater on Rural Poverty and Conflict. *American Economic Journal: Applied Economics* **6**:3, 76-102. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2637. Maisy Wong. 2014. Estimating the distortionary effects of ethnic quotas in Singapore using housing transactions. *Journal of Public Economics* **115**, 131-145. [[Crossref](#)]
2638. Laurent Bach. 2014. Are Small Businesses Worthy of Financial Aid? Evidence from a French Targeted Credit Program\*. *Review of Finance* **18**:3, 877-919. [[Crossref](#)]

2639. Benjamin Crost, Joseph Felter, Patrick Johnston. 2014. Aid Under Fire: Development Projects and Civil Conflict. *American Economic Review* **104**:6, 1833-1856. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2640. Ji Yan. 2014. The Effects of a Minimum Cigarette Purchase Age of 21 on Prenatal Smoking and Infant Health. *Eastern Economic Journal* **40**:3, 289-308. [[Crossref](#)]
2641. Franziska Kugler, Guido Schwerdt, Ludger Wößmann. 2014. Ökonometrische Methoden zur Evaluierung kausaler Effekte der Wirtschaftspolitik. *Perspektiven der Wirtschaftspolitik* **15**:2, 105-132. [[Crossref](#)]
2642. Russell C. Callaghan, Marcos Sanches, Jodi M. Gatley, Tim Stockwell. 2014. Impacts of drinking-age laws on mortality in Canada, 1980–2009. *Drug and Alcohol Dependence* **138**, 137-145. [[Crossref](#)]
2643. Judson Boomhower, Lucas W. Davis. 2014. A credible approach for measuring inframarginal participation in energy efficiency programs. *Journal of Public Economics* **113**, 67-79. [[Crossref](#)]
2644. Christoph Basten, Andreas Fagereng, Kjetil Telle. 2014. Cash-on-hand and the Duration of Job Search: Quasi-experimental Evidence from Norway. *The Economic Journal* **124**:576, 540-568. [[Crossref](#)]
2645. Francesca Dominici, Michael Greenstone, Cass R. Sunstein. 2014. Particulate Matter Matters. *Science* **344**:6181, 257-259. [[Crossref](#)]
2646. Qihui Chen, Tade O. Okediji. 2014. What is behind class attendance in college economics courses?. *Applied Economics Letters* **21**:6, 433-437. [[Crossref](#)]
2647. John Fitzgerald, Samuel P. Vitello. 2014. Impacts of the Community Reinvestment Act on Neighborhood Change and Gentrification. *Housing Policy Debate* **24**:2, 446-466. [[Crossref](#)]
2648. Maria De Paola, Vincenzo Scoppa. 2014. The effectiveness of remedial courses in Italy: a fuzzy regression discontinuity design. *Journal of Population Economics* **27**:2, 365-386. [[Crossref](#)]
2649. Dan Anderberg, Yu Zhu. 2014. What a difference a term makes: the effect of educational attainment on marital outcomes in the UK. *Journal of Population Economics* **27**:2, 387-419. [[Crossref](#)]
2650. Jacobus de Hoop, Furio C. Rosati. 2014. Does promoting school attendance reduce child labor? Evidence from Burkina Faso's BRIGHT project. *Economics of Education Review* **39**, 78-96. [[Crossref](#)]
2651. Jasmin Kantarevic, Boris Kralj. 2014. Risk selection and cost shifting in a prospective physician payment system: Evidence from Ontario. *Health Policy* **115**:2-3, 249-257. [[Crossref](#)]
2652. Fernando Ferreira, Joseph Gyourko. 2014. Does gender matter for political leadership? The case of U.S. mayors. *Journal of Public Economics* **112**, 24-39. [[Crossref](#)]
2653. Damon Clark, Paco Martorell. 2014. The Signaling Value of a High School Diploma. *Journal of Political Economy* **122**:2, 282-318. [[Crossref](#)]
2654. Mingming Ma, Xinzhen Shi. 2014. Magnet Classes and Educational Performance: Evidence from China. *Economic Development and Cultural Change* **62**:3, 537-566. [[Crossref](#)]
2655. Stan Hok-Wui Wong. 2014. Resource disparity and multi-level elections in competitive authoritarian regimes: Regression discontinuity evidence from Hong Kong. *Electoral Studies* **33**, 200-219. [[Crossref](#)]
2656. Georgios Georgiou. 2014. Does increased post-release supervision of criminal offenders reduce recidivism? Evidence from a statewide quasi-experiment. *International Review of Law and Economics* **37**, 221-243. [[Crossref](#)]



2657. Koichiro Ito. 2014. Do Consumers Respond to Marginal or Average Price? Evidence from Nonlinear Electricity Pricing. *American Economic Review* **104**:2, 537-563. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2658. Andreas Ravndal Kostøl, Magne Mogstad. 2014. How Financial Incentives Induce Disability Insurance Recipients to Return to Work. *American Economic Review* **104**:2, 624-655. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2659. Heléne Lundqvist, Matz Dahlberg, Eva Mörk. 2014. Stimulating Local Public Employment: Do General Grants Work?. *American Economic Journal: Economic Policy* **6**:1, 167-192. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2660. Stelios Michalopoulos, Elias Papaioannou. 2014. National Institutions and Subnational Development in Africa \*. *The Quarterly Journal of Economics* **129**:1, 151-213. [[Crossref](#)]
2661. Douglas S. Noonan. 2014. Smoggy with a Chance of Altruism: The Effects of Ozone Alerts on Outdoor Recreation and Driving in Atlanta. *Policy Studies Journal* **42**:1, 122-145. [[Crossref](#)]
2662. Decio Coviello, Mario Mariniello. 2014. Publicity requirements in public procurement: Evidence from a regression discontinuity design. *Journal of Public Economics* **109**, 76-100. [[Crossref](#)]
2663. Tom S. Vogl. 2014. Race and the politics of close elections. *Journal of Public Economics* **109**, 101-113. [[Crossref](#)]
2664. Augusto Cerqua, Guido Pellegrini. 2014. Do subsidies to private capital boost firms' growth? A multiple regression discontinuity design approach. *Journal of Public Economics* **109**, 114-126. [[Crossref](#)]
2665. Qihui Chen, Tade O. Okediji. 2014. Incentive Matters!—The Benefit of Reminding Students About Their Academic Standing in Introductory Economics Courses. *The Journal of Economic Education* **45**:1, 11-24. [[Crossref](#)]
2666. John P. Papay, Richard J. Murnane, John B. Willett. 2014. High-School Exit Examinations and the Schooling Decisions of Teenagers: Evidence From Regression-Discontinuity Approaches. *Journal of Research on Educational Effectiveness* **7**:1, 1-27. [[Crossref](#)]
2667. William R. Kerr, Josh Lerner, Antoinette Schoar. 2014. The Consequences of Entrepreneurial Finance: Evidence from Angel Financings. *Review of Financial Studies* **27**:1, 20-55. [[Crossref](#)]
2668. Matthew P. Steinberg. 2014. Does Greater Autonomy Improve School Performance? Evidence from a Regression Discontinuity Analysis in Chicago. *Education Finance and Policy* **9**:1, 1-35. [[Crossref](#)]
2669. Peter M. Aronow, David R. Mayhew, Winston Lin. 2014. A Note on Close Elections and Regression Analysis of the Party Incumbency Advantage. *Statistics, Politics and Policy* **5**:1-2, 1-11. [[Crossref](#)]
2670. Anna Alberini, Markus Bareit, Massimo Filippini. 2014. Does the Swiss Car Market Reward Fuel Efficient Cars? Evidence from Hedonic Pricing Regressions, Matching and a Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2671. Timothy J. Bartik, Marta Lachowska. 2014. The Effects of Doubling Instruction Efforts on Middle School Students' Achievement: Evidence from a Multiyear Regression-Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2672. Paul Fenn, Veronica Grembi, Neil Rickman. 2014. 'No Win, No Fee', Cost-Shifting and the Costs of Civil Litigation: A Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2673. Peter M. Aronow, David R. Mayhew, Winston Lin. 2014. A Note on Close Elections and Regression Analysis of the Party Incumbency Advantage. *SSRN Electronic Journal* . [[Crossref](#)]

2674. Anna Alberini, Markus Bareit, Massimo Filippini. 2014. Does the Swiss Car Market Reward Fuel Efficient Cars? Evidence from Hedonic Pricing Regressions, a Regression Discontinuity Design, and Matching. *SSRN Electronic Journal* . [[Crossref](#)]
2675. Peter M. Aronow, Allison Carnegie, Cyrus Samii. 2014. International Institutions and Political Liberalization: Evidence from the World Bank Loans Program. *SSRN Electronic Journal* . [[Crossref](#)]
2676. Ryota Nakamura, Emma Coombes, Marc Suhrcke. 2014. Do Economic Incentives Promote Physical Activity? Evaluating the Impact of the London Congestion Charge on Active Commuting and Health. *SSRN Electronic Journal* . [[Crossref](#)]
2677. Paolo Pinotti. 2014. Clicking on Heaven's Door: The Effect of Immigrant Legalization on Crime. *SSRN Electronic Journal* **69**. . [[Crossref](#)]
2678. Laura Dague, Thomas DeLeire, Lindsey Leininger. 2014. The Effect of Public Insurance Coverage for Childless Adults on Labor Supply. *SSRN Electronic Journal* . [[Crossref](#)]
2679. Peter Eibich. 2014. Understanding the Effect of Retirement on Health Using Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2680. Raffaello Bronzini, Paolo Piselli. 2014. The Impact of R&D Subsidies on Firm Innovation. *SSRN Electronic Journal* . [[Crossref](#)]
2681. William F. Bassett, W. Blake Marsh. 2014. Assessing Targeted Macroprudential Financial Regulation: The Case of the 2006 Commercial Real Estate Guidance for Banks. *SSRN Electronic Journal* . [[Crossref](#)]
2682. Clemens Bonner. 2014. Preferential Regulatory Treatment and Bankss Demand for Government Bonds. *SSRN Electronic Journal* . [[Crossref](#)]
2683. Paul Gaggl, Greg C Wright. 2014. A Short-Run View of What Computers Do: Evidence from a UK Tax Incentive. *SSRN Electronic Journal* . [[Crossref](#)]
2684. Wen-Tai Hsu, Yi Lu, Yingke Zhou. 2014. Exchange Rates and Export Structure. *SSRN Electronic Journal* **104**. . [[Crossref](#)]
2685. John Holbein, D. Sunshine Hillygus. 2014. Making Young Voters: The Impact of Preregistration on Youth Turnout. *SSRN Electronic Journal* . [[Crossref](#)]
2686. Nellie Liang, Antonio Falato. 2014. Do Creditor Rights Increase Employment Risk? Evidence from Loan Covenants. *SSRN Electronic Journal* **59**. . [[Crossref](#)]
2687. Xiandeng Jiang. 2014. Relative Performance Prizes and Dynamic Incentives in Best-of-N Contests. *SSRN Electronic Journal* . [[Crossref](#)]
2688. Chris Yost-Bremm. 2014. Abnormal Trading Around Common Factor Pricing Models. *SSRN Electronic Journal* . [[Crossref](#)]
2689. Pierre Mouganie. 2014. The Effects of Conscription on Education and Earnings: Regression Discontinuity Evidence. *SSRN Electronic Journal* **80**. . [[Crossref](#)]
2690. Kennedy O. Opalo. 2014. Institutional Foundations of Incumbency Advantage: A Regression Discontinuity Analysis of Incumbency Effects in Africa. *SSRN Electronic Journal* . [[Crossref](#)]
2691. Caroline Flammer, Pratima Bansal. 2014. Does Long-Term Orientation Create Value? Evidence from a Regression Discontinuity. *SSRN Electronic Journal* . [[Crossref](#)]
2692. Serena Canaan, Pierre Mouganie. 2014. Quality of Higher Education and Earnings: Regression Discontinuity Evidence from the French Baccalaureate. *SSRN Electronic Journal* . [[Crossref](#)]

2693. Dimitris Christelis, Dimitris Georgarakos, Anna Sanz-de-Galdeano. 2014. The Impact of Health Insurance on Stockholding: A Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2694. Audra L. Boone, Joshua T. White. 2014. The Effect of Institutional Ownership on Firm Transparency and Information Production. *SSRN Electronic Journal* . [[Crossref](#)]
2695. Timothy B. Armstrong, Michal Kolesar. 2014. A Simple Adjustment for Bandwidth Snooping. *SSRN Electronic Journal* . [[Crossref](#)]
2696. Chen Lin, Thomas Schmid, Yuhai Xuan. 2014. Employee Representation and Financial Leverage. *SSRN Electronic Journal* . [[Crossref](#)]
2697. Stefaan Decramer. 2014. How Effective are Investment Subsidies in Flanders? An RDD Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2698. Martin Micheli, Jan Rouwendal, Jasper Dekkers. 2014. Border Effects in House Prices. *SSRN Electronic Journal* **80**. . [[Crossref](#)]
2699. Henry G. Overman. Geographical Economics and Policy 667-682. [[Crossref](#)]
2700. Marco Percoco. Regression Discontinuity Design: When Series Interrupt 9-20. [[Crossref](#)]
2701. Miguel Ángel Malo, Ricardo Pagán. Hiring Workers with Disabilities When a Quota Requirement Exists: The Relevance of Firm's Size 49-63. [[Crossref](#)]
2702. Richard Dickens, Rebecca Riley, David Wilkinson. 2014. The Uk Minimum Wage at 22 Years of Age: A Regression Discontinuity Approach. *Journal of the Royal Statistical Society Series A: Statistics in Society* **177**:1, 95-114. [[Crossref](#)]
2703. Robert Gary-Bobo, Jean-Marc Robin. 2013. La question des redoublements. *Revue économique* **Vol. 65**:1, 5-45. [[Crossref](#)]
2704. Nicolai V. Kuminoff, V. Kerry Smith, Christopher Timmins. 2013. The New Economics of Equilibrium Sorting and Policy Evaluation Using Housing Markets. *Journal of Economic Literature* **51**:4, 1007-1062. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2705. Jing You. 2013. The role of microcredit in older children's nutrition: Quasi-experimental evidence from rural China. *Food Policy* **43**, 167-179. [[Crossref](#)]
2706. Rebecca Allen. 2013. Measuring foundation school effectiveness using English administrative data, survey data and a regression discontinuity design. *Education Economics* **21**:5, 431-446. [[Crossref](#)]
2707. Ariel Linden. 2013. Assessing regression to the mean effects in health care initiatives. *BMC Medical Research Methodology* **13**:1. . [[Crossref](#)]
2708. Russell C. Callaghan, Marcos Sanches, Jodi M. Gatley, James K. Cunningham. 2013. Effects of the Minimum Legal Drinking Age on Alcohol-Related Health Service Use in Hospital Settings in Ontario: A Regression-Discontinuity Approach. *American Journal of Public Health* **103**:12, 2284-2291. [[Crossref](#)]
2709. CHRISTOPHER S. ARMSTRONG, IAN D. GOW, DAVID F. LARCKER. 2013. The Efficacy of Shareholder Voting: Evidence from Equity Compensation Plans. *Journal of Accounting Research* **51**:5, 909-950. [[Crossref](#)]
2710. Aimee Chin, N. Meltem Daysal, Scott A. Imberman. 2013. Impact of bilingual education programs on limited English proficient students and their peers: Regression discontinuity evidence from Texas. *Journal of Public Economics* **107**, 63-78. [[Crossref](#)]

2711. Albert Solé-Ollé, Elisabet Viladecans-Marsal. 2013. Do political parties matter for local land use policies?. *Journal of Urban Economics* **78**, 42-56. [[Crossref](#)]
2712. Christina Weiland, Hirokazu Yoshikawa. 2013. Impacts of a Prekindergarten Program on Children's Mathematics, Language, Literacy, Executive Function, and Emotional Skills. *Child Development* **84**:6, 2112-2130. [[Crossref](#)]
2713. Damon Clark,, Heather Royer. 2013. The Effect of Education on Adult Mortality and Health: Evidence from Britain. *American Economic Review* **103**:6, 2087-2120. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2714. Stephan Litschig,, Kevin M. Morrison. 2013. The Impact of Intergovernmental Transfers on Education Outcomes and Poverty Reduction. *American Economic Journal: Applied Economics* **5**:4, 206-240. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2715. Grant Miller,, Diana Pinto,, Marcos Vera-Hernández. 2013. Risk Protection, Service Use, and Health Outcomes under Colombia's Health Insurance Program for the Poor. *American Economic Journal: Applied Economics* **5**:4, 61-91. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2716. Maria De Paola, Vincenzo Scoppa, Mariatiziana Falcone. 2013. The deterrent effects of the penalty points system for driving offences: a regression discontinuity approach. *Empirical Economics* **45**:2, 965-985. [[Crossref](#)]
2717. Arna Vardardottir. 2013. Peer effects and academic achievement: a regression discontinuity approach. *Economics of Education Review* **36**, 108-121. [[Crossref](#)]
2718. Corey Lang, Matthew Siler. 2013. Engineering estimates versus impact evaluation of energy efficiency projects: Regression discontinuity evidence from a case study. *Energy Policy* **61**, 360-370. [[Crossref](#)]
2719. Guglielmo Barone, Guido de Blasio. 2013. Electoral rules and voter turnout. *International Review of Law and Economics* **36**, 25-35. [[Crossref](#)]
2720. Rajeev Darolia. 2013. Integrity versus access? The effect of federal financial aid availability on postsecondary enrollment. *Journal of Public Economics* **106**, 101-114. [[Crossref](#)]
2721. Brian G. Moss, William H. Yeaton. 2013. Evaluating Effects of Developmental Education for College Students Using a Regression Discontinuity Design. *Evaluation Review* **37**:5, 370-404. [[Crossref](#)]
2722. David J. Becker, Justin Blackburn, Michael A. Morrissey, Bisakha Sen, Meredith L. Kilgore, Cathy Caldwell, Nir Menachemi. 2013. Co-payments and the Use of Emergency Department Services in the Children's Health Insurance Program. *Medical Care Research and Review* **70**:5, 514-530. [[Crossref](#)]
2723. Emily G. Owens, Jens Ludwig. Using Regression Discontinuity Designs in Crime Research 194-222. [[Crossref](#)]
2724. Dongshu Ou. 2013. Education for all: quasi-experimental estimates of the impacts of compulsory primary education in Hong Kong. *Asia Pacific Education Review* **14**:3, 267-283. [[Crossref](#)]
2725. Iris Hui. 2013. Using Spatial Techniques and Counterfactual Design to Examine Voting System Performance. *Election Law Journal: Rules, Politics, and Policy* **12**:3, 277-292. [[Crossref](#)]
2726. Gabriel Natividad. 2013. Financial Capacity and Discontinuous Investment: Evidence from Emerging Market Multibusiness Firms. *Review of Financial Studies* **26**:9, 2375-2410. [[Crossref](#)]
2727. Alexander M. Danzer. 2013. Benefit Generosity and the Income Effect on Labour Supply: Quasi-Experimental Evidence. *The Economic Journal* **123**:571, 1059-1084. [[Crossref](#)]

2728. Coady Wing, Thomas D. Cook. 2013. STRENGTHENING THE REGRESSION DISCONTINUITY DESIGN USING ADDITIONAL DESIGN ELEMENTS: A WITHIN-STUDY COMPARISON. *Journal of Policy Analysis and Management* **32**:4, 853-877. [[Crossref](#)]
2729. Russell C. Callaghan, Marcos Sanches, Jodi M. Gatley. 2013. Impacts of the minimum legal drinking age legislation on in-patient morbidity in Canada, 1997-2007: a regression-discontinuity approach. *Addiction* **108**:9, 1590-1600. [[Crossref](#)]
2730. Daniel L. Millimet, Rusty Tchernis. 2013. ESTIMATION OF TREATMENT EFFECTS WITHOUT AN EXCLUSION RESTRICTION: WITH AN APPLICATION TO THE ANALYSIS OF THE SCHOOL BREAKFAST PROGRAM. *Journal of Applied Econometrics* **28**:6, 982-1017. [[Crossref](#)]
2731. Anton Nivorozhkin, Laura Romeu Gordo, Julia Schneider. 2013. Job search requirements for older workers: the effect on reservation wages. *International Journal of Manpower* **34**:5, 517-535. [[Crossref](#)]
2732. Yuyu Chen, Avraham Ebenstein, Michael Greenstone, Hongbin Li. 2013. Evidence on the impact of sustained exposure to air pollution on life expectancy from China's Huai River policy. *Proceedings of the National Academy of Sciences* **110**:32, 12936-12941. [[Crossref](#)]
2733. Prashant Bharadwaj,, Katrine Vellesten Løken,, Christopher Neilson. 2013. Early Life Health Interventions and Academic Achievement. *American Economic Review* **103**:5, 1862-1891. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2734. Libertad González. 2013. The Effect of a Universal Child Benefit on Conceptions, Abortions, and Early Maternal Labor Supply. *American Economic Journal: Economic Policy* **5**:3, 160-188. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2735. Irena Grosfeld,, Alexander Rodnyansky,, Ekaterina Zhuravskaya. 2013. Persistent Antimarket Culture: A Legacy of the Pale of Settlement after the Holocaust. *American Economic Journal: Economic Policy* **5**:3, 189-226. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2736. Christoph Basten,, Frank Betz. 2013. Beyond Work Ethic: Religion, Individual, and Political Preferences. *American Economic Journal: Economic Policy* **5**:3, 67-91. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2737. Ryan Bubb. 2013. The Evolution of Property Rights: State Law or Informal Norms?. *The Journal of Law and Economics* **56**:3, 555-594. [[Crossref](#)]
2738. Marcus Tamm. 2013. The Impact of a Large Parental Leave Benefit Reform on the Timing of Birth around the Day of Implementation \*. *Oxford Bulletin of Economics and Statistics* **75**:4, 585-601. [[Crossref](#)]
2739. Sebastian Galiani, Patrick J. McEwan. 2013. The heterogeneous impact of conditional cash transfers. *Journal of Public Economics* **103**, 85-96. [[Crossref](#)]
2740. Hung-Hao Chang. 2013. Old Farmer Pension Program and Farm Succession: Evidence from a Population-Based Survey of Farm Households in Taiwan. *American Journal of Agricultural Economics* **95**:4, 976-991. [[Crossref](#)]
2741. Per G. Fredriksson, Le Wang, Patrick L Warren. 2013. Party Politics, Governors, and Economic Policy. *Southern Economic Journal* **80**:1, 106-126. [[Crossref](#)]
2742. Cristian Pop-Eleches,, Miguel Urquiola. 2013. Going to a Better School: Effects and Behavioral Responses. *American Economic Review* **103**:4, 1289-1324. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]

2743. Dora L. Costa, Matthew E. Kahn. 2013. ENERGY CONSERVATION “NUDGES” AND ENVIRONMENTALIST IDEOLOGY: EVIDENCE FROM A RANDOMIZED RESIDENTIAL ELECTRICITY FIELD EXPERIMENT. *Journal of the European Economic Association* 11:3, 680-702. [[Crossref](#)]
2744. William Rhodes, Sarah Kuck Jalbert. 2013. Regression Discontinuity Design in Criminal Justice Evaluation. *Evaluation Review* 37:3-4, 239-273. [[Crossref](#)]
2745. Tetsuya Matsubayashi. 2013. Do Politicians Shape Public Opinion?. *British Journal of Political Science* 43:2, 451-478. [[Crossref](#)]
2746. Douglas Lee Lauen. 2013. Jumping at the Chance: The Effects of Accountability Incentives on Student Achievement. *Journal of Research on Educational Effectiveness* 6:2, 93-113. [[Crossref](#)]
2747. Vivian C. Wong, Peter M. Steiner, Thomas D. Cook. 2013. Analyzing Regression-Discontinuity Designs With Multiple Assignment Variables. *Journal of Educational and Behavioral Statistics* 38:2, 107-141. [[Crossref](#)]
2748. W. Bentley MacLeod. 2013. On Economics: A Review of Why Nations Fail by D. Acemoglu and J. Robinson and Pillars of Prosperity by T. Besley and T. Persson. *Journal of Economic Literature* 51:1, 116-143. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2749. Meng Zhao, Yoshifumi Konishi, Paul Glewwe. 2013. Does information on health status lead to a healthier lifestyle? Evidence from China on the effect of hypertension diagnosis on food consumption. *Journal of Health Economics* 32:2, 367-385. [[Crossref](#)]
2750. Marco Migueis. 2013. The Effect of Political Alignment on Transfers to Portuguese Municipalities. *Economics & Politics* 25:1, 110-133. [[Crossref](#)]
2751. Lamar Pierce, Michael S. Dahl, Jimmi Nielsen. 2013. In Sickness and in Wealth. *Personality and Social Psychology Bulletin* 39:3, 359-374. [[Crossref](#)]
2752. Patrick J. McEwan. 2013. The impact of Chile's school feeding program on education outcomes. *Economics of Education Review* 32, 122-139. [[Crossref](#)]
2753. Liang Tan. 2013. Creditor control rights, state of nature verification, and financial reporting conservatism. *Journal of Accounting and Economics* 55:1, 1-22. [[Crossref](#)]
2754. Stefan Hilger, Stephanie Mankel, Ansgar Richter. 2013. The use and effectiveness of top executive dismissal. *The Leadership Quarterly* 24:1, 9-28. [[Crossref](#)]
2755. Peter Fredriksson, Björn Öckert, Hessel Oosterbeek. 2013. Long-Term Effects of Class Size \*. *The Quarterly Journal of Economics* 128:1, 249-285. [[Crossref](#)]
2756. Rafael Lalive, Jean-Philippe Wüellrich, Josef Zweimüller. 2013. DO FINANCIAL INCENTIVES AFFECT FIRMS' DEMAND FOR DISABLED WORKERS?. *Journal of the European Economic Association* 11:1, 25-58. [[Crossref](#)]
2757. Michael R. Roberts, Toni M. Whited. Endogeneity in Empirical Corporate Finance1 493-572. [[Crossref](#)]
2758. John Ekberg, Rickard Eriksson, Guido Friebel. 2013. Parental leave — A policy evaluation of the Swedish “Daddy-Month” reform. *Journal of Public Economics* 97, 131-143. [[Crossref](#)]
2759. Shuyan Sun, Wei Pan. 2013. Investigating the Accuracy of Three Estimation Methods for Regression Discontinuity Design. *The Journal of Experimental Education* 81:1, 1-21. [[Crossref](#)]



2760. Luke Keele, William Minozzi. 2013. How Much Is Minnesota Like Wisconsin? Assumptions and Counterfactuals in Causal Inference with Observational Data. *Political Analysis* 21:2, 193-216. [[Crossref](#)]
2761. Antonio Bento, Daniel Kaffine, Kevin Roth, Matthew Zaragoza. 2013. The Effects of Regulation in the Presence of Multiple Unpriced Externalities: Evidence from the Transportation Sector. *SSRN Electronic Journal* . [[Crossref](#)]
2762. Daniel J. Bradley, Incheol Kim, Xuan Tian. 2013. Providing Protection or Encouraging Holdup? The Effects of Labor Unions on Innovation. *SSRN Electronic Journal* . [[Crossref](#)]
2763. Joshua Mitts. 2013. Did the JOBS Act Benefit Community Banks? A Regression Discontinuity Study. *SSRN Electronic Journal* . [[Crossref](#)]
2764. Vicente Cuñat, Mireia Gine, Maria Guadalupe. 2013. Say Pays! Shareholder Voice and Firm Performance. *SSRN Electronic Journal* . [[Crossref](#)]
2765. Sankar De, Prasanna L. Tantri. 2013. Borrowing Culture and Debt Relief: Evidence from a Policy Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2766. Yu Gao, Mozaffar Khan, Liang Tan. 2013. Debt Covenant Violations and Auditor Monitoring. *SSRN Electronic Journal* . [[Crossref](#)]
2767. Per Engstrom, Eskil Forsell. 2013. Demand Effects of Consumers' Stated and Revealed Preferences. *SSRN Electronic Journal* . [[Crossref](#)]
2768. Martin C. Schmalz. 2013. Managing Human Capital Risk. *SSRN Electronic Journal* . [[Crossref](#)]
2769. Jing You, Samuel Kobina Annim. 2013. The Impact of Microcredit on Child Education: Quasi-Experimental Evidence from Rural China. *SSRN Electronic Journal* . [[Crossref](#)]
2770. Andrew Eggers, Olle Folke, Anthony Fowler, Jens Hainmueller, Andrew B. Hall, James M. Snyder. 2013. On the Validity of the Regression Discontinuity Design for Estimating Electoral Effects: New Evidence from Over 40,000 Close Races. *SSRN Electronic Journal* . [[Crossref](#)]
2771. Jacobus de Hoop, Furio C. Rosati. 2013. Does Promoting School Attendance Reduce Child Labour? Evidence from Burkina Faso's Bright Project. *SSRN Electronic Journal* . [[Crossref](#)]
2772. Timothy J. Bartik. 2013. Effects of the Pre-K Program of Kalamazoo County Ready 4s on Kindergarten Entry Test Scores: Estimates Based on Data from the Fall of 2011 and the Fall of 2012. *SSRN Electronic Journal* . [[Crossref](#)]
2773. Yen-Cheng Chang, Harrison G. Hong, Inessa Liskovich. 2013. Regression Discontinuity and the Price Effects of Stock Market Indexing. *SSRN Electronic Journal* . [[Crossref](#)]
2774. Ruben Durante, Paolo Pinotti, Andrea Tesei. 2013. Voting Alone? The Political and Cultural Consequences of Commercial TV. *SSRN Electronic Journal* . [[Crossref](#)]
2775. Yuyu Chen, Avraham Ebenstein, Michael Greenstone, Li Hongbin. 2013. Evidence on the Impact of Sustained Exposure to Air Pollution on Life Expectancy from China's Huai River Policy. *SSRN Electronic Journal* . [[Crossref](#)]
2776. Neel U. Sukhatme, Judd N. L. Cramer. 2013. Optimal Patent Term and Cross-Industry Measures of Patent Term Sensitivity. *SSRN Electronic Journal* . [[Crossref](#)]
2777. Miriam A. Golden, Lucio Picci. 2013. Incumbency Effects under Proportional Representation: Leaders and Backbenchers in the Postwar Italian Chamber of Deputies. *SSRN Electronic Journal* . [[Crossref](#)]

2778. Christian A. L. Hilber, Teemu Lyytikäinen. 2013. Housing Transfer Taxes and Household Mobility: Distortion on the Housing or Labour Market?. *SSRN Electronic Journal* . [[Crossref](#)]
2779. David R. Agrawal. 2013. The Internet as a Tax Haven?: The Effect of the Internet on Tax Competition. *SSRN Electronic Journal* 49. . [[Crossref](#)]
2780. Yuqi Gu, Connie X. Mao, Xuan Tian. 2013. Creditor Interventions and Firm Innovation: Evidence from Debt Covenant Violations. *SSRN Electronic Journal* . [[Crossref](#)]
2781. Andres Liberman. 2013. The Value of a Good Credit Reputation: Evidence from Credit Card Renegotiations. *SSRN Electronic Journal* . [[Crossref](#)]
2782. Teemu Lyytikäinen, Janne Tukiainen. 2013. Voters are Rational. *SSRN Electronic Journal* . [[Crossref](#)]
2783. Hellne Lundqvist. 2013. Is it Worth it? On the Returns to Holding Political Office. *SSRN Electronic Journal* . [[Crossref](#)]
2784. Danielle H Sandler, Ryan Sandler. 2013. Multiple Event Studies in Public Finance and Labor Economics: A Simulation Study with Applications. *SSRN Electronic Journal* . [[Crossref](#)]
2785. Laurent Bach, Daniel Metzger. 2013. The Dark Side of Shareholder Activism: Evidence from CEO Turnovers. *SSRN Electronic Journal* . [[Crossref](#)]
2786. Laura Hospido, Gema Zamarro. 2013. Retirement Patterns of Couples in Europe. *SSRN Electronic Journal* . [[Crossref](#)]
2787. Tunga Kantarci. 2013. The Effects of Partial Retirement on Health. *SSRN Electronic Journal* . [[Crossref](#)]
2788. Karthik Krishnan, Debarshi K. Nandy, Manju Puri. 2013. Does Financing Spur Small Business Productivity? Evidence from a Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2789. David Le Bris. 2013. Customary versus Civil Law within Old Regime France. *SSRN Electronic Journal* . [[Crossref](#)]
2790. Brian D. Galle, David I. Walker. 2013. Sunshine, Stakeholders, and Executive Pay: A Regression-Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2791. Michihito Ando. 2013. How Much Should We Trust Regression-Kink-Design Estimates?. *SSRN Electronic Journal* . [[Crossref](#)]
2792. Arlen Guarin, Jorge Andres Tamayo, Carlos Medina. 2013. The Effects of Punishment of Crime in Colombia on Deterrence, Incapacitation, and Human Capital Formation. *SSRN Electronic Journal* . [[Crossref](#)]
2793. Jeremy Ferwerda, Nicholas Miller. 2013. Resistance to Foreign Rule: Evidence from a Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2794. Robert Gary-Bobo, Jean-Marc Robin. 2013. La question des redoublements. *Revue économique Prépublication*:7, art7\_I. [[Crossref](#)]
2795. Olivier Bargain, Karina Doorley. 2013. Putting Structure on the Rd Design: Social Transfers and Youth Inactivity in France. *SSRN Electronic Journal* 24. . [[Crossref](#)]
2796. Steven E. Sexton. 2012. Paying for Pollution? How General Equilibrium Effects Undermine the “Spare the Air” Program. *Environmental and Resource Economics* 53:4, 553-575. [[Crossref](#)]
2797. Timothy J. Bartik, William Gormley, Shirley Adelstein. 2012. Earnings benefits of Tulsa's pre-K program for different income groups. *Economics of Education Review* 31:6, 1143-1161. [[Crossref](#)]

2798. Matthew Freedman. 2012. Teaching new markets old tricks: The effects of subsidized investment on low-income neighborhoods. *Journal of Public Economics* **96**:11-12, 1000-1014. [[Crossref](#)]
2799. Chad Kendall, Marie Rekkas. 2012. Incumbency advantages in the Canadian Parliament. *Canadian Journal of Economics/Revue canadienne d'économique* **45**:4, 1560-1585. [[Crossref](#)]
2800. Bart Cockx, Muriel Dejemeppe. 2012. Monitoring job search effort: An evaluation based on a regression discontinuity design. *Labour Economics* **19**:5, 729-737. [[Crossref](#)]
2801. José Miguel Benavente, Gustavo Crespi, Lucas Figal Garone, Alessandro Maffioli. 2012. The impact of national research funds: A regression discontinuity approach to the Chilean FONDECYT. *Research Policy* **41**:8, 1461-1475. [[Crossref](#)]
2802. VICENTE CUÑAT, MIREIA GINE, MARIA GUADALUPE. 2012. The Vote Is Cast: The Effect of Corporate Governance on Shareholder Value. *The Journal of Finance* **67**:5, 1943-1977. [[Crossref](#)]
2803. Vivian C. Wong, Coady Wing, Peter M. Steiner, Manyee Wong, Thomas D. Cook. Research Designs for Program Evaluation . [[Crossref](#)]
2804. Theo Cotrim Martins, Walter Novaes. 2012. Mandatory dividend rules: Do they make it harder for firms to invest?. *Journal of Corporate Finance* **18**:4, 953-967. [[Crossref](#)]
2805. Jérémie Gignoux, Karen Macours, Liam Wren-Lewis. 2012. Impact of land administration programs on agricultural productivity and rural development: existing evidence, challenges and new approaches. *Revue d'Études en Agriculture et Environnement* **96**:03, 467-498. [[Crossref](#)]
2806. Dolores De La Mata. 2012. THE EFFECT OF MEDICAID ELIGIBILITY ON COVERAGE, UTILIZATION, AND CHILDREN'S HEALTH. *Health Economics* **21**:9, 1061-1079. [[Crossref](#)]
2807. Nicola Lacetera,, Devin G. Pope,, Justin R. Sydnor. 2012. Heuristic Thinking and Limited Attention in the Car Market. *American Economic Review* **102**:5, 2206-2236. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2808. Bisakha Sen, Justin Blackburn, Michael A. Morrisey, Meredith L. Kilgore, David J. Becker, Cathy Caldwell, Nir Menachemi. 2012. Did Copayment Changes Reduce Health Service Utilization among CHIP Enrollees? Evidence from Alabama. *Health Services Research* **47**:4, 1603-1620. [[Crossref](#)]
2809. G. Imbens, K. Kalyanaraman. 2012. Optimal Bandwidth Choice for the Regression Discontinuity Estimator. *The Review of Economic Studies* **79**:3, 933-959. [[Crossref](#)]
2810. Fabrizia Mealli, Carla Rampichini. 2012. Evaluating the Effects of University Grants by Using Regression Discontinuity Designs. *Journal of the Royal Statistical Society Series A: Statistics in Society* **175**:3, 775-798. [[Crossref](#)]
2811. Jacob R. Neiheisel, Barry C. Burden. 2012. The Impact of Election Day Registration on Voter Turnout and Election Outcomes. *American Politics Research* **40**:4, 636-664. [[Crossref](#)]
2812. Deborah A. Phillips, Mary E. Meloy. 2012. High-Quality School-Based Pre-K Can Boost Early Learning for Children with Special Needs. *Exceptional Children* **78**:4, 471-490. [[Crossref](#)]
2813. Gyeongjoon Yoo, Changhui Kang. 2012. The Effect of Protection of Temporary Workers on Employment Levels: Evidence from the 2007 Reform of South Korea. *ILR Review* **65**:3, 578-606. [[Crossref](#)]
2814. Patrick J. McEwan. 2012. Cost-effectiveness analysis of education and health interventions in developing countries. *Journal of Development Effectiveness* **4**:2, 189-213. [[Crossref](#)]

2815. Jerome Dugan, Salim S. Virani, Vivian Ho. 2012. Medicare Eligibility and Physician Utilization Among Adults With Coronary Heart Disease and Stroke. *Medical Care* **50**:6, 547-553. [[Crossref](#)]
2816. Elena Stancanelli,, Arthur Van Soest. 2012. Retirement and Home Production: A Regression Discontinuity Approach. *American Economic Review* **102**:3, 600-605. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2817. Thomas K. Bauer, Stefan Bender, Alfredo R. Paloyo, Christoph M. Schmidt. 2012. Evaluating the labor-market effects of compulsory military service. *European Economic Review* **56**:4, 814-829. [[Crossref](#)]
2818. J. F. Schmieder, T. von Wachter, S. Bender. 2012. The Effects of Extended Unemployment Insurance Over the Business Cycle: Evidence from Regression Discontinuity Estimates Over 20 Years. *The Quarterly Journal of Economics* **127**:2, 701-752. [[Crossref](#)]
2819. Stephen Gibbons, Henry G. Overman. 2012. MOSTLY POINTLESS SPATIAL ECONOMETRICS?\*. *Journal of Regional Science* **52**:2, 172-191. [[Crossref](#)]
2820. David Reeb, Mariko Sakakibara, Ishtiaq P Mahmood. 2012. From the Editors: Endogeneity in international business research. *Journal of International Business Studies* **43**:3, 211-218. [[Crossref](#)]
2821. Ariel Linden, John L. Adams. 2012. Combining the regression discontinuity design and propensity score-based weighting to improve causal inference in program evaluation. *Journal of Evaluation in Clinical Practice* **18**:2, 317-325. [[Crossref](#)]
2822. Prashant Loyalka, Yingquan Song, Jianguo Wei. 2012. The effects of attending selective college tiers in China. *Social Science Research* **41**:2, 287-305. [[Crossref](#)]
2823. Till Bärnighausen, David E Bloom, Salal Humair. 2012. Health systems and HIV treatment in sub-Saharan Africa: matching intervention and programme evaluation strategies. *Sexually Transmitted Infections* **88**:2, e2-e2. [[Crossref](#)]
2824. Olivier Marie, Judit Vall Castello. 2012. Measuring the (income) effect of disability insurance generosity on labour market participation. *Journal of Public Economics* **96**:1-2, 198-210. [[Crossref](#)]
2825. Carlos A. Flores, Alfonso Flores-Lagunes, Arturo Gonzalez, Todd C. Neumann. 2012. Estimating the Effects of Length of Exposure to Instruction in a Training Program: The Case of Job Corps. *Review of Economics and Statistics* **94**:1, 153-171. [[Crossref](#)]
2826. Thomas J. Chemmanur, Xuan Tian. 2012. Do Anti-Takeover Provisions Spur Corporate Innovation?. *SSRN Electronic Journal* . [[Crossref](#)]
2827. Bang Dang Nguyen, Quoc-Anh Do, Yen Teik Lee. 2012. Political Connections and Firm Value: Evidence from Close Gubernatorial Elections. *SSRN Electronic Journal* . [[Crossref](#)]
2828. Ruben Hernandez-Murillo, Andra C. Ghent, Michael Owyang. 2012. Did Affordable Housing Legislation Contribute to the Subprime Securities Boom?. *SSRN Electronic Journal* . [[Crossref](#)]
2829. Bo Zhao, Rosemarie Ham Ziedonis. 2012. State Governments as Financiers of Technology Startups: Implications for Firm Performance. *SSRN Electronic Journal* . [[Crossref](#)]
2830. Julia Nasev, Bernard S. Black, Woochan Kim. 2012. Does Corporate Governance Affect Earnings Management? Evidence from an Exogenous Shock to Governance in Korea. *SSRN Electronic Journal* . [[Crossref](#)]
2831. Christoph Carl Basten, Frank Betz. 2012. Beyond Work Ethic: Religion, Individual and Political Preferences. *SSRN Electronic Journal* . [[Crossref](#)]

2832. Marcelo Rezende, Jason Wu. 2012. The Effects of Supervision on Bank Performance: Evidence from Discontinuous Examination Frequencies. *SSRN Electronic Journal* . [[Crossref](#)]
2833. Brian Kelleher Richter, Adam Fremeth, Guy L. F. Holburn. 2012. Making Causal Inferences in Small Samples Using Synthetic Control Methodology: Did Chrysler Benefit from Government Assistance?. *SSRN Electronic Journal* **105**. . [[Crossref](#)]
2834. Caroline Flammer. 2012. Does Corporate Social Responsibility Lead to Superior Financial Performance? A Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2835. Subbu Ramanarayanan, Jason Snyder. 2012. Information Disclosure and Firm Performance: Evidence from the Dialysis Industry. *SSRN Electronic Journal* . [[Crossref](#)]
2836. Lorenzo Casaburi, Rachel Glennerster, Tavneet Suri. 2012. Rural Roads and Intermediated Trade: Regression Discontinuity Evidence from Sierra Leone. *SSRN Electronic Journal* . [[Crossref](#)]
2837. Stefan Legge, Lukas Schmid. 2012. The Role of Rankings, Big Shots, and Random Successes. *SSRN Electronic Journal* **91**. . [[Crossref](#)]
2838. Hitoshi Shigeoka. 2012. The Effect of Patient Cost-Sharing on Utilization, Health and Risk Protection. *SSRN Electronic Journal* . [[Crossref](#)]
2839. Cornelius Schmidt. 2012. Shareholder Monitoring Incentives and Corporate Policies. *SSRN Electronic Journal* . [[Crossref](#)]
2840. Guglielmo Barone, Francesco D'Acunto, Gaia Narciso. 2012. Telecracy: Testing for Channels of Persuasion. *SSRN Electronic Journal* . [[Crossref](#)]
2841. Ronny Freier, Sebastian Thomasius. 2012. Voters Prefer More Qualified Mayors, But Does It Matter for Public Finances? Evidence for Germany. *SSRN Electronic Journal* . [[Crossref](#)]
2842. Mukta Mukherjee. 2012. Do Better Roads Increase School Enrollment? Evidence from a Unique Road Policy in India. *SSRN Electronic Journal* . [[Crossref](#)]
2843. Marta Curto-Grau, Albert Sole-Olle, Pilar Sorribas-Navarro. 2012. Partisan Targeting of Inter-Governmental Transfers & State Interference in Local Elections: Evidence from Spain. *SSRN Electronic Journal* . [[Crossref](#)]
2844. Christina Gathmann, Hendrik Jürges, Steffen Reinhold. 2012. Compulsory Schooling Reforms, Education and Mortality in Twentieth Century Europe. *SSRN Electronic Journal* **28**. . [[Crossref](#)]
2845. Irena Grosfeld, Alexander Rodnyansky, Ekaterina V. Zhuravskaya. 2012. Persistent Anti-Market Culture: A Legacy of the Pale of Settlement after the Holocaust. *SSRN Electronic Journal* **126**. . [[Crossref](#)]
2846. Yonca Ertimur, Fabrizio Ferri, David Oesch. 2012. Does the Director Election System Matter? Evidence from Majority Voting. *SSRN Electronic Journal* **46**. . [[Crossref](#)]
2847. Fabrizia Mealli, Barbara Pacini, Donald B. Rubin. Statistical Inference for Causal Effects 171-192. [[Crossref](#)]
2848. Thomas J. Chemmanur, Karthik Krishnan, Debarshi K. Nandy. 2011. How Does Venture Capital Financing Improve Efficiency in Private Firms? A Look Beneath the Surface. *Review of Financial Studies* **24**:12, 4037-4090. [[Crossref](#)]
2849. Daniel E. Ho, Donald B. Rubin. 2011. Credible Causal Inference for Empirical Legal Studies. *Annual Review of Law and Social Science* **7**:1, 17-40. [[Crossref](#)]

2850. Sebastian Bauhoff, David R. Hotchkiss, Owen Smith. 2011. The impact of medical insurance for the poor in Georgia: a regression discontinuity approach. *Health Economics* **20**:11, 1362-1378. [[Crossref](#)]
2851. Beatrix Eugster, Rafael Lalive, Andreas Steinhauer, Josef Zweimüller. 2011. The Demand for Social Insurance: Does Culture Matter?. *The Economic Journal* **121**:556, F413-F448. [[Crossref](#)]
2852. Olivier Bargain, Karina Doorley. 2011. Caught in the trap? Welfare's disincentive and the labor supply of single men. *Journal of Public Economics* **95**:9-10, 1096-1110. [[Crossref](#)]
2853. Per G. Fredriksson, Le Wang, Khawaja A. Mamun. 2011. Are politicians office or policy motivated? The case of U.S. governors' environmental policies. *Journal of Environmental Economics and Management* **62**:2, 241-253. [[Crossref](#)]
2854. Bailey Klinger, Matthias Schündeln. 2011. Can Entrepreneurial Activity be Taught? Quasi-Experimental Evidence from Central America. *World Development* **39**:9, 1592-1610. [[Crossref](#)]
2855. Chad D. Meyerhoefer, Muzhe Yang. 2011. The Relationship between Food Assistance and Health: A Review of the Literature and Empirical Strategies for Identifying Program Effects. *Applied Economic Perspectives and Policy* **33**:3, 304-344. [[Crossref](#)]
2856. Clémentine Garrouste, Jérôme Le, Eric Maurin. 2011. The choice of detecting Down syndrome: does money matter?. *Health Economics* **20**:9, 1073-1089. [[Crossref](#)]
2857. Lan Deng, Lance Freeman. 2011. Planning for Evaluation. *Journal of Planning Education and Research* **31**:3, 308-318. [[Crossref](#)]
2858. G. W. Harrison. 2011. Experimental methods and the welfare evaluation of policy lotteries. *European Review of Agricultural Economics* **38**:3, 335-360. [[Crossref](#)]
2859. G. W. Harrison. 2011. Randomisation and Its Discontents. *Journal of African Economies* **20**:4, 626-652. [[Crossref](#)]
2860. Ryan M. Rodenberg, Daniel F. Stone. 2011. The Short and Long-Run Labor Market Effects of Age Eligibility Rules: Evidence from Women's Professional Tennis. *Journal of Labor Research* **32**:2, 181-198. [[Crossref](#)]
2861. Andrew Dillon. 2011. Do Differences in the Scale of Irrigation Projects Generate Different Impacts on Poverty and Production?. *Journal of Agricultural Economics* **62**:2, 474-492. [[Crossref](#)]
2862. Cristina Bernini, Guido Pellegrini. 2011. How are growth and productivity in private firms affected by public subsidy? Evidence from a regional policy. *Regional Science and Urban Economics* **41**:3, 253-265. [[Crossref](#)]
2863. Ofer Malamud, Cristian Pop-Eleches. 2011. Home Computer Use and the Development of Human Capital \*. *The Quarterly Journal of Economics* **126**:2, 987-1027. [[Crossref](#)]
2864. John P. Papay, John B. Willett, Richard J. Murnane. 2011. Extending the regression-discontinuity approach to multiple assignment variables. *Journal of Econometrics* **161**:2, 203-207. [[Crossref](#)]
2865. Julien Grenet, Robert A. Hart, J. Elizabeth Roberts. 2011. Above and beyond the call. Long-term real earnings effects of British male military conscription in the post-war years. *Labour Economics* **18**:2, 194-204. [[Crossref](#)]
2866. David Albouy. 2011. Do voters affect or elect policies? A new perspective, with evidence from the U.S. Senate. *Electoral Studies* **30**:1, 162-173. [[Crossref](#)]
2867. Yannis M. Ioannides. Neighborhood Effects And Housing 1281-1340. [[Crossref](#)]



2868. Devin Caughey, Jasjeet S. Sekhon. 2011. Elections and the Regression Discontinuity Design: Lessons from Close U.S. House Races, 1942–2008. *Political Analysis* **19**:4, 385–408. [[Crossref](#)]
2869. Katrin Auspurg, Thomas Hinz. 2011. What Fuels Publication Bias?. *Jahrbücher für Nationalökonomie und Statistik* **231**:5–6. . [[Crossref](#)]
2870. Vladimir A. Atanasov, Bernard S. Black. 2011. Causal Inference Strategies in Corporate Governance Research. *SSRN Electronic Journal* . [[Crossref](#)]
2871. Michael R. Roberts, Toni M. Whited. 2011. Endogeneity in Empirical Corporate Finance. *SSRN Electronic Journal* **73** . [[Crossref](#)]
2872. Khondker Aktaruzzaman, Pertti J. Haaparanta, Otto Toivanen. 2011. Microcredit and Crime. *SSRN Electronic Journal* . [[Crossref](#)]
2873. Guido de Blasio, Davide Fantino, Guido Pellegrini. 2011. Evaluating the Impact of Innovation Incentives: Evidence from an Unexpected Shortage of Funds. *SSRN Electronic Journal* . [[Crossref](#)]
2874. Erwin Ooghe. 2011. The Impact of 'Equal Educational Opportunity' Funds: A Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
2875. Veronica Grembi, Tommaso Nannicini, Ugo Troiano. 2011. Do Fiscal Rules Matter? A Difference-in-Discontinuities Design. *SSRN Electronic Journal* **119** . [[Crossref](#)]
2876. Thomas K. Bauer, Stefan Bender, Alfredo R. Paloyo, Christoph M. Schmidt. 2011. Do Guns Displace Books? – The Impact of Compulsory Military Service on Educational Attainment. *SSRN Electronic Journal* **34** . [[Crossref](#)]
2877. Kai-Lung Hui, Ivan P. L. Png. 2011. Digital Divide: Evidence from a Federal Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
2878. Sebastian Galiani, Patrick J. McEwan. 2011. The Heterogeneous Impact of Conditional Cash Transfers. *SSRN Electronic Journal* . [[Crossref](#)]
2879. Marc Gurgand, Adrien J.S. Lorenceau, Thomas Mélonio. 2011. Student Loans: Liquidity Constraint and Higher Education in South Africa. *SSRN Electronic Journal* . [[Crossref](#)]
2880. Elena G.F. Stancanelli, Arthur H. O. van Soest. 2011. Retirement and Home Production: A Regression Discontinuity Approach. *SSRN Electronic Journal* . [[Crossref](#)]
2881. Mahdi Rastad. 2011. Capital Structure Pre-Balancing: Evidence from Convertible Bonds. *SSRN Electronic Journal* . [[Crossref](#)]
2882. Stefan Pichler, Daniel Roemer. 2011. Juvenile Law and Recidivism in Germany – New Evidence from the Old Continent. *SSRN Electronic Journal* . [[Crossref](#)]
2883. Anna S. De Paoli. 2011. Education, Teenage Fertility and Labour Market Participation, Evidence from Ecuador. *SSRN Electronic Journal* . [[Crossref](#)]
2884. Pamela Campa. 2011. Gender Quotas, Female Politicians and Public Expenditures: Quasi-Experimental Evidence. *SSRN Electronic Journal* . [[Crossref](#)]
2885. Florent Fremigacci. 2011. Evaluer l'impact de l'assurance chômage sur les trajectoires individuelles : de la théorie à la pratique. *Revue française d'économie* **Volume XXVI**:1, 49–95. [[Crossref](#)]
2886. Richard M. Romano. 2011. A Brief Look at What Economists Are Saying About the Community College. *Community College Review* **39**:1, 69–87. [[Crossref](#)]
2887. James Fenske. 2010. THE CAUSAL HISTORY OF AFRICA: A RESPONSE TO HOPKINS. *Economic History of Developing Regions* **25**:2, 177–212. [[Crossref](#)]

2888. Guido W. Imbens. 2010. Better LATE Than Nothing: Some Comments on Deaton (2009) and Heckman and Urzua (2009). *Journal of Economic Literature* 48:2, 399-423. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
2889. Ryan M. Rodenberg, Daniel F. Stone. 2010. The Short and Long-Run Labor Market Effects of Age Eligibility Rules: Evidence from Women's Professional Tennis. *SSRN Electronic Journal* . [[Crossref](#)]
2890. Vadim Marmer, Donna Feir, Thomas Lemieux. 2010. Weak Identification in Fuzzy Regression Discontinuity Designs. *SSRN Electronic Journal* . [[Crossref](#)]
2891. Griffin Sims Edwards. 2010. A Selection-Corrected Estimate of Chevron's Impact on Agency Deference. *SSRN Electronic Journal* . [[Crossref](#)]
2892. Alfredo R. Paloyo. 2010. Compulsory Military Service in Germany Revisited. *SSRN Electronic Journal* 72. . [[Crossref](#)]
2893. Tuukka Saarimaa, Janne Tukiainen. 2010. Coalition Formation and Political Decision Making: Evidence from Finnish Municipal Mergers. *SSRN Electronic Journal* . [[Crossref](#)]
2894. Thomas J. Chemmanur, Karthik Krishnan, Debarshi K. Nandy. 2009. How Does Venture Capital Financing Improve Efficiency in Private Firms? A Look Beneath the Surface. *SSRN Electronic Journal* . [[Crossref](#)]