Did Unilateral Divorce Laws Raise Divorce Rates? A Reconciliation and New Results

By Justin Wolfers*

The "no-fault revolution" that swept the United States in the 1970s radically altered the parameters of family law. The new no-fault unilateral divorce laws allowed people to seek a divorce without the consent of their spouse, a dramatic departure from previous practice. This decade also saw radical changes in the structure of American families, with divorce rates rising dramatically across the nation. Are these two trends connected? This question has been argued at length, and each iteration of the debate has yielded new insights. H. Elizabeth Peters (1986) argued that divorce rates were unaffected by the change in legal regime, a finding rebutted by Douglas W. Allen (1992), and subsequently countered by Peters (1992). Parallel literatures in both sociology and law have also yielded fierce debate. Practitioners also seem divided: a recent survey of members of the Family Law Section of the American Bar Association found that around two-thirds of re-

* The Wharton School, University of Pennsylvania, 3620 Locust Walk, Philadelphia, PA 19104, Centre for Economic Policy Research, Institute for the Study of Labor (IZA), and National Bureau of Economic Research (e-mail: jwolfers@wharton.upenn.edu). Special thanks to Leora Friedberg both for sharing her data and for several very fruitful discussions that have improved this paper; thanks also to Jon Gruber for help in trying to reconcile our estimates. Eric Klotch provided outstanding research assistance. This paper has also benefited from useful conversations with Richard Blundell, David Ellwood, Frank Furstenberg, Caroline Hoxby, Christopher Jencks, Larry Katz, Eric Rasmussen, and Betsey Stevenson, as well as the input of participants in the Harvard Labor Lunch, and seminar participants at the University of California, Berkeley, University of Chicago Harris School, Harvard University, University of Melbourne, University of Michigan, Stanford Law School, Texas A&M University, Yale University, and the ZEW Program Evaluation conference.

¹ Related contributions in the economics literature include: Jonathan Gruber (2004), John H. Johnson and Christopher J. Mazingo (2000), and Stéphane Méchoulan (2006). In the law and economics literature, see: Margaret F. Brinig and Frank H. Buckley (1998), Ira Mark Ellman and Sharon L. Lohr (1998), and Ellman (2000); and in the sociology literature, see: Paul A. Nakonezny et al. (1995), Norval D. Glenn (1999), and Joseph L. Rogers et al. (1999).

spondents do not agree that there is a direct correlation between higher divorce rates and divorce law liberalization (Laura Gatland, 1997).

Leora Friedberg (1998) presented a seemingly appealing alternative to earlier studies. Her paper analyzed comprehensive administrative divorce data in a state-based panel. In response to concerns about the endogeneity of divorce reform expressed in the Peters-Allen exchange (divorce reform came first to those states with historically high divorce rates), Friedberg controlled for state and year fixed effects, as well as state-specific time trends in her specification. Friedberg interprets her results as suggesting that the adoption of unilateral divorce laws accounts for about one-sixth of the rise in the divorce rate since the late 1960s, a finding that has since been widely accepted.2

This paper argues that these conclusions are somewhat misleading. A major difficulty in difference-in-difference analyses involves separating out preexisting trends from the dynamic effects of a policy shock. Her approach appears to confound the two. This problem—that state-specific trends may pick up the effects of a policy and not just preexisting trends—is quite general. Slight modifications to standard procedures yield more directly interpretable estimates.

I find that the divorce rate rose sharply following the adoption of unilateral divorce laws, but that this rise was reversed within about a decade. There is no evidence that this rise in divorce is persistent. Indeed, some of my results suggest—somewhat puzzlingly—that 15 years after reform the divorce rate is lower as a result of the adoption of unilateral divorce, although it is hard to draw any strong conclusions about long-run effects.

The fundamental theoretical issue at stake in this empirical debate is the applicability of the

² See Jane M. Binner and Antony W. Dnes (2001), Gruber (2004), Johnson and Mazingo (2000), and Robert Rowthorn (1999).

Coase theorem to marital relations. Gary Becker (1981) argues that unilateral divorce simply reassigns existing property rights between spouses. Under the consent divorce regime, both partners must agree to a divorce, whereas the unilateral regime requires only one spouse to desire a divorce. In Coasian terms, why should a reassignment of property rights—from the happily married spouse to their partner who would prefer a divorce—change outcomes? Peters (1986) and Betsey Stevenson and Wolfers (2006) discuss plausible reasons for the failure of the Coase theorem in marital bargaining. In this paper, my focus is primarily empirical, and I seek to evaluate whether divorce rates rose following the passage of unilateral divorce laws.

In Section I, I present Friedberg's results, and show that her estimates are replicable. Working through a simple example, Section II shows that in applications involving interesting dynamics, the standard difference-in-difference approach may produce misleading results if panel-specific trends are included as controls. This is a more general problem in differences-in-difference analyses, and one contribution of this paper is simply to highlight the bias that might result. Imposing minimal structure on the dynamic response of the divorce rate, I present a well-identified specification that suggests that divorce rates rose temporarily following the adoption of unilateral divorce laws. These results are not particularly sensitive to the inclusion of statespecific trends, and there is little evidence of a persistent impact. Section III finds complementary evidence in census data tracing the evolution of the stock of ever-divorced people. Section IV explores the empirical robustness of my findings, and Section V turns to interpretation.

I. Replicating Friedberg³

Between 1968 and 1988, 29 states changed their legal systems, from some variant of consent divorce to a unilateral system. Standard accounts of this period of legislative activity suggest that the timing of these changes was plausibly exogenous (see Herbert Jacob, 1988). Thus, state-based panel estimation of the effects of these changes seems natural. Friedberg col-

lected administrative data on the *divorce rate* in each state and year from 1968 to 1988 from *Vital Statistics of the United States*. The divorce rate is defined as the annual number of new divorces per thousand persons in each state. These data cover virtually every divorce in the United States throughout this period. She estimated:⁴

(1) Divorce
$$Rate_{s,t} = \beta Unilateral_{s,t}$$

$$+ \sum_{s} State \ fixed \ effects_{s}$$

$$+ \sum_{t} Time \ fixed \ effects_{t}$$

$$\left[+ \sum_{s} State_{s} * Time_{t}$$

$$+ \sum_{s} State_{s} * Time_{t}^{2} \right] + \varepsilon_{s,t}.$$

The variable *Unilateral* is a dummy, set equal to one when the state has a unilateral divorce regime, and zero under a consent divorce regime. The coefficient β is interpreted as the average rise in the divorce rate attributable to the legal change. Much of the earlier debate in this literature focused on coding these legal changes.⁵ More precisely, this involved two debates: developing a taxonomy of legal regimes that yields economically meaningful distinctions; and, given this taxonomy, providing an appropriate classification of these laws. On the former, I follow Friedberg in focusing on the assignment of property rights between spouses (the distinction between unilateral and consent divorce), while on the latter, I take Friedberg's coding as a starting point, but test which of the main findings is robust to a range of different coding regimes.

Equation (1) is estimated using populationweighted least squares. Panel A of Table 1

³ All of the data and programs used in this paper are available at: www.nber.org/~jwolfers.

⁴ A range of indicator variables was also included to account for slight breaks in the various state divorce series. These have no important effect on estimated results, and hence while I include them in the replication in Table 1, for simplicity, I drop them in all subsequent analysis.

⁵ In the economics literature, see the Peters-Allen exchange; in law and economics, see the dialogue between Brinig and Buckley and Ellman and Lohr.

		Table 1	—Fried	BERG'S R	ESUL	TS	
(I	Dependent	variable:	Annual	divorces	per	1,000	persons)

	(1)	(2)	(3)
	Basic	State-specific	State-specific
	specification	trends linear	trends quadratic
	Panel A. Friedl	berg (1998)	
Unilateral	0.004	0.447	0.441
	(0.056)	(0.050)	(0.055)
Year effects	F = 89.0	F = 95.3	F = 8.9
State effects	F = 217.3	F = 196.2	F = 131.1
State trend, linear	No	F = 24.7	F = 9.3
State trend, quadratic	No	No	F = 6.5
Adjusted R^2	0.946	0.976	0.982
	Panel B. Re	plication	
Unilateral	0.000	0.431	0.435
	(0.057)	(0.051)	(0.055)
Year effects	F = 89.3	F = 95.3	F = 9.0
State effects	F = 216.5	F = 191.6	F = 129.1
State trend, linear	No	F = 24.4	F = 9.3
State trend, quadratic	No	No	F = 6.6
Adjusted R^2	0.946	0.976	0.981

Notes: Sample: 1968-1988, n=1043 (unbalanced panel). Estimated using state population weights. Standard errors in parentheses.

Sources: Divorce rate data coded by Friedberg (1998) from Vital Statistics. Divorce laws coded from Friedberg's Table 1. Population weights downloaded from www.census.gov.

simply reprints Friedberg's results. The specification shown in column 1 includes state and year fixed effects, yielding reasonably precisely estimated coefficients suggesting almost no change in the divorce rate. This finding is consistent with Peters (1986, 1992), who found that when one controls for existing differences in state divorce propensities, unilateral divorce laws did not affect divorce rates.

However, Friedberg argues (p. 611) that even this may be too restrictive a specification, and that "the factors which influence divorce may vary within a state over time, confounding the estimates of the state effects. ... Including statespecific trends allows unobserved state divorce propensities to trend linearly and even quadratically over time and reveals that unilateral divorce raised divorce rates significantly and strongly." Of course, these omitted factors bias the estimated effect of unilateral divorce laws only if they are correlated with divorce laws. Column 2 shows Friedberg's preferred specification, which includes state-specific linear time trends to account for slow-moving social and demographic trends in each state. This specification changes the point estimate dramatically, suggesting that the divorce rate rose by 0.447. Comparing this coefficient with an average rate of 4.6 divorces per 1,000 people per year, this translates to a rise of a little under 10 percent. Testing for robustness, Friedberg adds state-specific quadratic time trends in column 3, finding a similar effect. Thus, she concludes that unilateral divorce caused the divorce rate to rise significantly. In later tables, she includes leads and lags of the independent variable, and concludes (p. 608) that "the effect of unilateral divorce on divorce behavior was permanent, not temporary."

Panel B of Table 1 shows my attempts to replicate Friedberg's results. Replication was relatively simple because Friedberg generously shared her divorce data. In all columns, the results are extremely similar. Remaining differences are in the second decimal place and presumably reflect revised population estimates that are used as weights, or differences in computational procedures. Beyond the statistics shown in Panel B, my regressions also closely replicated detail on state and year effects provided in the appendices of Friedberg's paper.

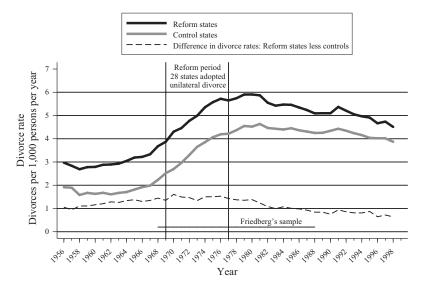


FIGURE 1. AVERAGE DIVORCE RATE: REFORM STATES AND CONTROLS

This seems to be as close to a complete replication as one can hope for.⁶

A worrying feature of the estimates in Table 1 is their sensitivity to the inclusion of state-specific trends. Friedberg's interpretation is that these trends reflect omitted variables, and thus their inclusion remedies an omitted variable bias. The omission of these variables should only bias these coefficients, however, if there is a systematic relationship between the trend in divorce rates and the adoption of unilateral divorce laws. Certainly, such a relationship seems at odds with the purported exogeneity of the timing of the adoption of these laws. Further, controlling for state time trends raises the coefficient on Unilateral, a finding that can be reconciled with an omitted variables interpretation only if factors correlated with a relative fall in divorce propensities led states to adopt unilateral divorce laws. This seems unlikely; if anything, one might expect factors associated with a rising divorce rate to have increased the pressure for reform.

Figure 1 shows the evolution of the average divorce rate across the reform and control

The next section reconciles these findings. In the context of a simple example highlighting stock-flow dynamics, I show that Friedberg's results are not robust to plausible specifications of the dynamic effects of changes in divorce laws. Specifically, it appears that her estimates

states, respectively.7 Clearly, higher divorce rates in reform states have been a feature since at least the mid-1950s, undermining any inference that these cross-state differences reflect the "no-fault revolution" of the early 1970s. Thus, controlling for these preexisting differencesperhaps through the inclusion of state fixed effects—seems important (a point made by both Peters, 1986, and Friedberg, 1998). The dashed line shows the evolution of the difference in the divorce rate between reform and control states. This line allows a coarse comparison of the relative preexisting trends; if anything, it shows a mildly rising trend in the divorce rate in treatment states relative to the control states prior to reform, suggesting that adding controls for preexisting trends should reduce the Unilateral coefficient.

⁶ On computational procedures, see Bruce D. McCullough and Hrishikesh D. Vinod (1999). Regarding replication, see William G. Dewald et al. (1986).

⁷ Controls are defined as those states that did not change their divorce laws during Friedberg's 1968–1988 sample.

⁸ See Allen (1992) and Johnson and Mazingo (2000) for papers that are identified off cross-state variation in divorce rates and divorce hazards, respectively.

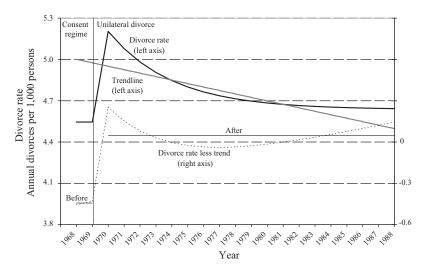


FIGURE 2. DYNAMIC RESPONSE OF THE DIVORCE RATE

Notes: This hypothetical response of the divorce rate is constructed under the following assumptions: each year 20 percent of the population assess whether to get divorced, given the current legal regime; under consent divorce laws the 20 percent most incompatible matches dissolve; under unilateral divorce, this rises to 20.4 percent; each year 2.5 percent of the population die, and are replaced by new marriages.

confound preexisting trends with the response of the divorce rate to the policy shock. More plausible specifications suggest that the divorce rate rose for a number of years following divorce law reform; no effect is discernible after a decade, and there is some evidence of a reversal over the ensuing period.

II. Stock-Flow Dynamics and Difference-in-Difference Estimates

A shift in divorce regimes is likely to have very different short-run and long-run effects. Immediately following reform, the divorce rate is likely to rise dramatically as the courts cater to pent-up demand for the new type of divorce facilitated by this change. Evolving norms and the slow diffusion of information about the divorce regime may keep the divorce rate high for a period. This may be further reinforced by developments in a thicker remarriage market. Eventually this "pent-up demand" will run its course, and the flow of divorces will move toward its new steady state. Further interesting dynamic patterns may be evident in the medium run: bad matches may be dissolved earlier, shifting the pattern of divorce across the lifecycle; differential selection into marriage will

change the nature of the "at-risk" population, and so on. During the transition to the new steady state, it is likely that the corresponding stock variable—the *ever-divorced population*—will slowly approach its new level. During the transition to this new steady state, however, the flow of new divorces will not necessarily bear a simple relation to either its new steady-state level, or to the ever-divorced population.

This section shows that standard differencein-difference estimates confound these stockflow dynamics with panel-specific trends, yielding results that are difficult to interpret. To provide intuition, the bold line in Figure 2 shows the dynamics from a simple partial adjustment model. Specifically, I contrast consent divorce laws which lead the c percent most incompatible marriages to dissolve, with unilateral divorce laws that lead a further ε percent of marriages to end. While these assumptions are sufficient to describe the long-run stocks of divorces, the annual flow of new divorces is driven by the dynamics of marriages forming and dissolving as couples subsequently discover their incompatibility. Thus, each year δ percent of the population marry, replacing an equal proportion of the population who die. If couples continuously assessed the status of their relationship,

this would yield instantaneous adjustment to the new steady state. Instead, I assume that there is an α -percent chance per year that a couple will assess their compatibility; if this couple subsequently discovers that they are better off dissolving the marriage, they will get divorced. The bold line in Figure 2 shows the resulting divorce rate, and its adjustment following the adoption of unilateral divorce laws for a set of plausible parameters ($\alpha = 20$ percent, c = 20percent, $\varepsilon = 0.4$ percent, $\delta = 2.5$ percent). Note that even a very small value of ε yields a large spike in the flow of new divorces. This immediate rise in divorce reflects a pent-up demand for divorce as the stock of dissatisfied spouses who take advantage of the liberalized divorce laws, while small, is large relative to the annual flow of divorces. Not all of this effect is immediate, however, because many couples do not consider the implications of the new regime for their marriage for several years, and hence the divorce rate stays high for several years. Not surprisingly, the long-run effect of such a small change in regime (ε) , is small.

Empirically, my approach will simply trace out the full adjustment path. Note that Friedberg's preferred specification includes only the single Unilateral dummy to capture the full adjustment process. Because the dynamics are not well captured by this single variable, statespecific trends pick up not only different preexisting trends across states, but also differences in the evolution of the divorce rate between reform and control states subsequent to the adoption of unilateral divorce laws (see Figure 2). The bold line shows the hypothetical divorce rate. The fitted time trend is shown in gray. Friedberg's equation effectively partials this out, and the residuals are shown as the dashed line. The Unilateral coefficient compares the average difference between the divorce rate and the trend before and after the legal change. Thus, her regression compares the line segments titled "before" and "after." This difference is several times larger than the true effect evident in the bold line.

This critique applies beyond this specific

stylized example—any dynamics beyond a discrete series break are not fully accounted for by the simple *Unilateral* dummy, leading the statespecific trend "controls" to partly reflect the dynamic response of the response variable to the policy shock. Thus, this problem arises in any context in which panel-specific trends are included as controls and where the response to the policy shock yields interesting unmodeled dynamics. It is worth noting that it is not unusual in the labor literature simply to add panelspecific trends in this manner as a "check." ¹⁰ More generally, any reduced-form or structural analysis that assumes an immediate constant response to a policy shock may be misspecified if actual dynamics are more complex than a simple series break. Beyond the stock-flow example highlighted above, real, nominal, expectational, or belief stickiness will also yield interesting dynamics.

In this case, this problem causes the estimated *Unilateral* dummy to reflect the difference between the actual path of divorces and a systematically biased estimate of its counterfactual. Including state-specific quadratic time trends might either exacerbate or ameliorate this bias, depending on the specific dynamic response.

These problems are exacerbated when only a few observations are available before the policy shock. Friedberg's sample begins in 1968, while the wave of divorce reform followed fairly immediately, leaving only a couple of observations with which to identify preexisting state trends.

To resolve these problems, I extend Friedberg's sample back to 1956 (so as to allow for a credible identification of *preexisting* statespecific trends), ¹¹ and add variables that model the dynamic response of divorce quite explicitly. I pursue a specification that imposes very little structure on the response dynamics, including dummy variables for the first two years

⁹ Section V provides evidence for the choices of the c and ε parameters; δ is chosen so as to yield an average life span of 40 years following marriage, and the choice of α , while arbitrary, is chosen to yield a plausible dynamic response to the change in divorce laws.

¹⁰ Indeed, of the 92 difference-in-difference papers identified by Bertrand et al., they report that 7 include panel-specific trends. Only two of these papers report specifications that explicitly identify the dynamic responses to the policy change.

¹¹ Before 1956, the divorce data by state are rather patchy. Appendix A shows that my longer sample does not much change Friedberg's estimates. Thus, to the extent that our estimates diverge, differences in identification approaches, rather than differences in samples, are the cause.

TABLE 2—DYNAMIC EFFECTS OF ADOPTING UNILATERAL DIVORCE LAWS
(Dependent variable: Annual divorces per 1,000 persons (Cell mean $= 3.9$))

	(1)	(2)	(3)
	Basic	State-specific	State-specific
Specification:	specification	linear trends	quadratic trends
First 2 years	0.27	0.34	0.30
•	(0.08)	(0.06)	(0.05)
Years 3-4	0.21	0.32	0.29
	(0.09)	(0.07)	(0.06)
Years 5-6	0.16	0.30	0.29
	(0.08)	(0.08)	(0.08)
Years 7-8	0.16	0.32	0.35
	(0.08)	(0.08)	(0.10)
Years 9-10	-0.12	0.08	0.16
	(0.08)	(0.09)	(0.12)
Years 11-12	-0.32	-0.10	0.05
	(0.08)	(0.10)	(0.14)
Years 13-14	-0.46	-0.20	0.03
	(0.08)	(0.11)	(0.17)
Year 15	-0.51°	-0.21	0.25
onwards	(0.08)	(0.12)	(0.20)
Controls	, ,	` '	. ,
Year FE	F = 145	F = 54	F = 71
State FE	F = 220	F = 468	F = 523
State * time	No	F = 49	F = 56
State * time ²	No	No	F = 16
Adjusted R^2	0.9310	0.9732	0.9822
Sample		1956–88, $n = 1631$ state-years	

Notes: Estimated using state population weights. Standard errors in parentheses.

of the new legal regime, for years three, and four, five, and six, and so on. Thus, these variables should identify the entire response function allowing the estimated state-specific time trends to identify preexisting trends.¹²

Table 2 shows my preferred set of estimates, running equation (2) on an unbalanced panel of divorce rates from 1956 to 1988:

(2) Divorce Rate_{s,t}

$$= \sum_{k\geq 1} \beta_k Unilateral \ divorce \ has$$

been in effect for k periods_{s,t}

+
$$\sum$$
 State fixed effects_s

+
$$\sum_{t}$$
 Time fixed effects_t

$$\left[+ \sum_{s} State_{s} * Time_{t} + \varepsilon_{s,t} + \sum_{s} State_{s} * Time_{t}^{2} \right].$$

The first column of Table 2 reports results from a specification including only state and year fixed effects as controls; the second adds state-specific time trends, and the third also includes quadratic state-specific time trends. Figure 3 shows the results graphically. All three specifications suggest that the divorce rate spiked immediately following the adoption of unilateral divorce laws. ¹³ This effect declines

¹² Friedberg analyzed the effects in the first two years, although her estimates—reflecting the identification problems discussed above—suggest that the effects of unilateral divorce laws were smaller in their first two years.

¹³ Part of the short-run up-tick in divorce rates likely reflects the fact that in certain states, waiting periods were shortened with the introduction of unilateral divorce (Robert

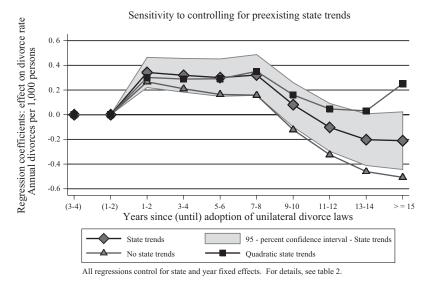


FIGURE 3. RESPONSE OF DIVORCE RATE TO UNILATERAL DIVORCE LAWS

over the ensuing decade, and the dynamic response is remarkably similar to that shown in the stylized example discussed above. A decade later, it is difficult to find any effects of divorce reform. Intriguingly, the coefficients become significantly negative after a little more than a decade in two specifications, although as one adds more controls, the long-run effects become less negative, and indeed are small, positive, and statistically insignificant when controlling for state-specific quadratic trends. The conclusion that divorce rose noticeably over the decade following reform appears quite robust. Evidence for a negative effect over the ensuing period is more fragile.

The fragility of the long-run estimates is a recurring theme throughout my robustness testing. For example, Figure 4 shows the results of similar regressions when analyzing several alternative taxonomies of family law regimes. The lack of precision in these estimates cautions against attempts to parse out a family of estimates corresponding to a more fine-grained coding of family law regimes.

Reconciling my results with Friedberg's is fairly simple, and California provides an illustrative example. The top panel of

Schoen et al., 1975). There is also anecdotal evidence of couples delaying their divorce so as to take advantage of the non-adversarial no-fault procedures.

Figure 5 shows California's divorce rate after controlling for state and year fixed effects. The divorce rate clearly spikes following the 1970 reform, returns to its previous level by about 1980, and then drops to a lower level for the ensuing decade.

Friedberg focuses only on the shorter sample: 1968–1988 (highlighted in gray). Thus, the specification including only state and year fixed effects effectively compares the observations for 1968–1969 with those from 1970 onward. As can be seen, the average level of the divorce rate from 1970 to 1988 is fairly similar to that in the late 1960s (it is higher for a decade, and then lower for a decade), leading to the conclusion that the average effect throughout the period was zero. Indeed, recall that the results in column 1 of Tables 1 and 2 yielded estimates for the United States close to zero.

Friedberg finds a significant effect of divorce reform only when she adds state-specific trends (as in columns 2 and 3 in Table 1). To see why, note that her regression fits a strongly decreasing trend to California (the dashed gray line)—despite the fact that the *preexisting trend* appears to be flat or even slightly increasing. The gray line in the lower panel shows the residual variation identifying Friedberg's specification. By subtracting a decreasing trend, Friedberg is led to conclude that the divorce rate rose dramatically following

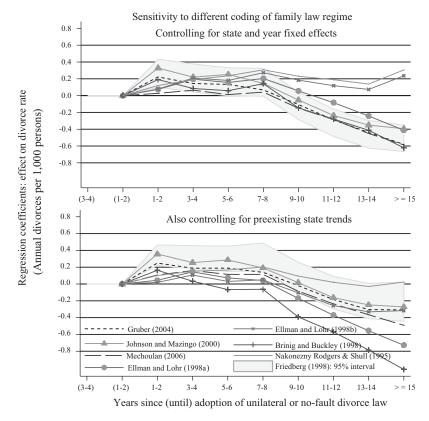


FIGURE 4. RESPONSE OF DIVORCE RATE TO DIVORCE LAW REFORM

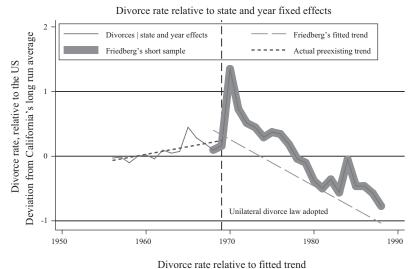
Notes: Figure shows regression coefficients from a specification including state and year fixed effects (and also state-specific linear time trends in bottom panel), estimated over the 1956–1988 sample.

- (a) Friedberg (1998) codes when unilateral divorce laws, with no separation requirements are adopted, using mostly secondary sources.
- (b) Gruber (2004) codes unilateral divorce laws, with no separation requirements, using both primary and secondary sources.
- (c) Johnson and Mazingo (2000) code unilateral divorce laws, citing Friedberg and Brinig as sources.
- (d) Ellman and Lohr (1998i) code when each state adopted "irretrievable breakdown" as grounds for divorce, citing both primary and secondary sources.
- (e) Ellman and Lohr (1998ii) code when each state adopted either "irretrievable breakdown" or "incompatibility/separation" as grounds for divorce.
- (f) Brinig and Buckley (1998) code the date by which both no-fault grounds for dissolution and no-fault grounds for financial settlements have been adopted, citing both legislation and court decisions.
- (g) Nakonezny et al. (1995) code the date of the state's adoption of no-fault grounds for either marital dissolution or financial settlements, citing mainly secondary sources.

the adoption of unilateral divorce laws, and that this effect persisted for 20 years. The thin line shows the residual variation identifying my regression (column 2 of Table 2). As one would expect from a casual inspection, there is not much of a preexisting trend, and thus adding

controls for state-specific trends does not much change my estimates.

These misidentified state-specific trends are a ubiquitous problem in Friedberg's specification, even when allowing for a longer preintervention sample. To provide a point of



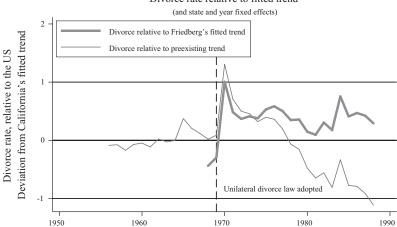


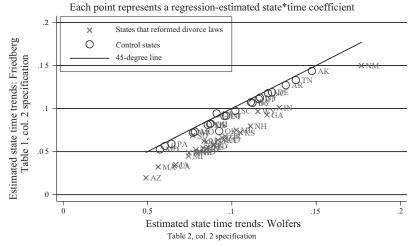
FIGURE 5. CALIFORNIA'S DIVORCE RATE

comparison, I estimated both my specification and Friedberg's over the complete 1956-1988 sample, controlling for state-specific time trends. Figure 6 plots my estimate of each state's time trend against that estimated from Friedberg's specification; the 29 states that changed their laws are marked with a cross, while the remaining 21 "control" states are shown with circles. The single Unilateral variable in Friedberg's specification picks up a shift in the level of the divorce rates following the reform, but leaves the subsequent downward trend following the initial postreform spike in divorces to be picked up by state-specific trends. Thus, we see that her specification systematically estimates a more

negative state-specific time trend in reform states. It is only when measured against this counterfactual of relatively falling divorce rates in reform states that Friedberg finds large and persistent effects of divorce laws on the divorce rate.

III. Implications for the Stock of Marriages: Census Data

Naturally these results on the *flow* of new divorces have testable implications for data on the *stock* of divorcees, and hence I turn to analyzing census data. I start by analyzing a specification suggested by Gruber (2004), focusing on census data from 1960 to 1990.



Population-weighted least squares regression, 1956-1988. Nevada off-scale (-0.60, -0.63).

FIGURE 6. ESTIMATES OF STATE-SPECIFIC LINEAR TIME TRENDS

Gruber analyzes state-year-age-sex cells, ¹⁴ finding that the proportion of the population that is divorced at a point in time rises by about 1 percentage point (or 12 percent) following the adoption of unilateral divorce laws. That is, for each sex Gruber ran:

(3)
$$p(Currently\ Divorced_{s,t,a})$$

$$= \beta Unilateral_{s,t} + \sum_{r} Race_{s,t,a}$$

$$+ \sum_{s} State\ fixed\ effects_{s}$$

$$+ \sum_{a} \sum_{t} Age_{a} * Time_{t} + \varepsilon_{s,t,a}.$$

The first column of Table 3 reprints Gruber's results. ¹⁵ As can be seen, the probability of being divorced on census day rose by around 1 percentage point following the adoption of uni-

lateral divorce laws. While I was able to reconstruct these estimates from aggregate data provided to me by Gruber, I was not able to completely reconstruct these aggregate data from original Integrated Public Use Microdata Series (IPUMS) sources. ¹⁶ That said, remaining differences are extremely minor, and column 2 shows the corresponding estimates from my data yield very similar results. ¹⁷

Unfortunately, these data describe those who are divorced at a point in time, while the majority of divorcess later remarry, and hence their divorces are not measured in these numbers. Indeed, data from the June 1995 CPS Marital History supplement reveal that of the female population age 25 to 50, only 49 percent of the ever-divorced population are to be found in the currently divorced pool; a further 47 percent

¹⁴ Note that, in the census data, Gruber focuses on a person's current state of residence, which may differ from the state in which they divorced. Given that divorce may induce migration, this could induce nonclassical measurement error.

¹⁵ For the sake of comparability, I revert to Gruber's coding of divorce laws when analyzing census data. Results using Friedberg's coding are similar.

¹⁶ All of my data are from www.ipums.org. Following Gruber, I analyze data on U.S.-born adults age 25 to 50 from the 1960 1-percent sample, the 1970 Form one state 1-percent sample, and the 1980 and 1990 5-percent state samples. While divorce rates in each age-sex-state of residence-year cell are derived using person weights, regression weights reflect the number of observations used in constructing each cell, yielding estimates that are representative of the unbalanced microdata, rather than the U.S. population.

¹⁷ Correspondence with Gruber suggests that these minor differences may reflect different treatment of observations with certain missing or imputed values, and persons in group quarters.

TABLE 3—EFFECTS OF UNILATERAL DIVORCE LAWS ON THE STOCK OF DIVORCES—CENSUS DATA

		p(Currently divorce	d)	p(Ever divorced)	
Dependent variable	Gruber's results	Replicating Gruber (same sample)	Replicating Gruber (shorter sample)	Dependent variable is "ever divorced" (shorter sample)	
		Panel A. Women			
Mean of dependent var	11.0%	11.2%	9.2%	22.5%	
Unilateral coefficient	0.0128	0.0101	0.0104	0.0009	
	(0.0040)	(0.0025)	(0.0028)	(0.0037)	
Elasticity	11.6%	9.0%	11.3%	0.4%	
		Panel B. Men			
Mean of dependent var	8.2%	8.5%	6.8%	19.3%	
Unilateral coefficient	0.0095	0.0082	0.0082	0.0004	
	(0.0038)	(0.0029)	(0.0027)	(0.0042)	
Elasticity	11.6%	9.6%	12.1%	0.2%	
Sample	1960-90	1960-90	1960-80	1960-80	
	n = 5,304	n = 5,304	n = 3,978	n = 3,978	

Notes: Standard errors in parentheses. Weighted to reflect underlying microdata. Standard errors clustered by state. All regressions based on IPUMS data from the 1950–1990 Censuses: 1960 1-percent state sample, 1970 Form one 1-percent state sample, 1980–2000 5-percent state samples. Restricted to U.S.-born population age 25 to 50. Each coefficient is from a separate regression, controlling for race, state of residence dummies, age dummies, year dummies, and age * year dummy interactions.

have remarried, 3 percent have remarried and are separated, while 1 percent have remarried and been widowed. Moreover, Imran Rasul (2004) shows that the propensity to remarry is a function of unilateral divorce laws, and that unilateral divorce led remarriage rates of divorcees to decline by around one-third to one-half.

By exploiting data on the number of times each respondent has been married, I construct a measure of the *ever-divorced* population.¹⁸ Because remarriage is identifiable only in the 1960–1980 Censuses, I confine my attention to this period. Column 3 shows that restricting attention to this shorter sample yields similar results. Presumably this reflects the fact that

only South Dakota adopted unilateral divorce laws after the 1970s. Further, this is consistent with the suggestion from Figure 3 that most of the rise in divorce occurred in the first eight years following legal reform.

Column 4 turns to analyzing the effect of divorce laws on the proportion of the population who have ever been divorced. The everdivorced population includes both those currently divorced and those who had previously divorced but subsequently remarried. This broader measure reveals no effects of divorce laws on the propensity to divorce. Further, these results are about as precisely estimated as Gruber's. Taken together, the results in columns 3 and 4 suggest a change in the composition but not the size of the ever-divorced population, and specifically that divorcees became less likely to remarry following the adoption of unilateral divorce laws. This implied decline in remarriage is consistent with Rasul's analysis of the effects of unilateral divorce on the remarriage

Thus, census data suggest that no effect of divorce laws on the *ever-divorced* population is evident by 1980. By contrast, the flow data suggest that divorce rates rose over the corresponding period. Reconciling these findings

¹⁸ My measure of the *ever-divorced* population includes both those currently divorced and those who are currently married, separated, or widowed, but are on their second (or higher) marriage. Implicitly this measure assumes that those who have remarried were divorced—rather than widowed—by their first spouse. June 1995 CPS data suggest that this is largely true: my proxy measure would categorize 26.9 percent of the female population age 25 to 50 as *ever divorced*. Of these, 12.9 percent are currently divorced, 13.5 percent have been divorced, but are currently married, widowed, or separated, while only 0.3 percent are widows who remarried (and hence would be misclassified as ever divorced).

hinges on the greater statistical precision of the flow estimates. The central estimates in Table 2 suggested that the divorce rate rose by about 0.2 to 0.3 divorces per 1,000 persons per year, for around a decade. To a first approximation, this suggests that the ever-divorced population should have risen through the 1970s by around 2 to 3 divorces per 1,000 men or women, or 0.4 to 0.6 percent of the population in reform states. My estimates in Table 3 yield a 95-percent confidence interval for this prediction ranging from -0.6 to +0.8 percent of the population. That is, the administrative divorce data suggest a very precisely estimated—but small—effect of unilateral divorce laws on divorce rates. The size of this effect is sufficiently small that it cannot be rejected in census data on the everdivorced population. Both datasets suggest that unilateral divorce laws explain only a very small fraction of the dramatic rise in divorce over the past 40 years.

IV. Interpretation

Data on the flow of new divorces suggest that the shift to unilateral divorce had important—albeit relatively small—effects on the divorce rate over the decade following its adoption, a finding that the census data do not reject. Moreover, the estimates suggest even smaller—and in some cases negative—long-run effects of these laws. In this section, I explore four possible explanations of these long-run estimates: the dynamics associated with a shift toward earlier divorce rather than more divorce; changes in marriage rates; contamination of divorce norms from treatment states to control states; and regression to the mean.

A. Dynamics

The increase in divorces for a decade following reform, and the subsequent decrease, may in fact be two sides of the same coin: unilateral divorce may have simply led to the earlier dissolution of bad matches, thereby shifting a number of divorces from the 1980s into the 1970s. Thus, extending the data by a further decade may yield something closer to the true long-run effects. For the divorce rate data, I extend the sample to 1998 using data reported in *Vital Statistics*. I cannot update data on the everdivorced population beyond 1980 because the

Census stopped asking about remarriage. I can, however, update data on the share of the population currently divorced by adding data from the 2000 Census.

The first two columns of Table 4 show the results over this longer sample—panel A shows the effects on the flow data, and the negative coefficients remain a feature even a quarter of a century after the reform. The census data, shown in panel B, yield complementary results, although for brevity I show results only from the female sample. The stock of divorcees rose strongly in the decade following reform, stayed high for a decade, and declined a little subsequently. While the results in Table 3 caution against the assumption that the evolution of the currently divorced population is representative of the number of divorces, these data are consistent with the finding that unilateral divorce laws increased the flow of new divorces for only about a decade. Once again, estimates based on census data are sufficiently imprecise that they cannot falsify a wide range of dynamic responses.

B. Matching

The quantity and quality of marriage market matches may change in response to divorce law changes. Indeed, Rasul (2004) shows that the marriage rate declined by about 3 to 4 percent following the adoption of unilateral divorce laws. As such, the size of the population "at risk" of divorce declined with unilateral divorce laws, possibly reducing the divorce rate. This suggests that divorces per 1,000 persons is an inappropriate metric, and analysis should focus on divorces per 1,000 married persons. Tempering this, even important changes to entry into marriage will only change the stock of existing marriages very slowly. Columns 3 and 4 of Table 4 analyze divorces per 1,000 married persons.¹⁹ Note that variable is scaled differently— 68 percent of the population is married, and

¹⁹ To create my new independent variable, I divide the divorce rate by the proportion of the adult population in a state that is currently married. This latter series is calculated by linearly interpolating decadal estimates derived from IPUMS microdata for 1950 to 2000, and so misses some high-frequency variation. This deviates slightly from Friedberg (1998), who used CPS data to construct annual statelevel estimates of the married population.

TABLE 4—LONG-RUN EFFECTS OF UNILATERAL DIVORCE LAWS

		rsons per year	Divorces per 1,000 married persons age 18 plus		
Dependent variable	1956–88 sample $n = 1,631$	1956–98 sample $n = 2,102$	1956–88 sample $n = 1,631$	1956–98 sample $n = 2,102$	
Panel A	A. Dependent variable is d	livorce rate (administra	ative flow data)		
Cell mean	3.9	4.1	5.8	6.2	
Law change has been in effect for	or:				
First 2 years	0.27	0.27	0.42	0.42	
•	(0.08)	(0.10)	(0.11)	(0.13)	
Years 3–4	0.21	0.22	0.37	0.37	
	(0.09)	(0.10)	(0.12)	(0.13)	
Years 5–6	0.16	0.17	0.35	0.35	
	(0.08)	(0.10)	(0.11)	(0.13)	
Years 7–8	0.16	0.17	0.39	0.40	
	(0.08)	(0.09)	(0.11)	(0.13)	
Years 9–10	-0.12	-0.10°	0.02	0.03	
	(0.08)	(0.09)	(0.11)	(0.13)	
Years 11–12	-0.32	-0.29	-0.25	-0.23	
	(0.08)	(0.09)	(0.11)	(0.13)	
Years 13-14	-0.46	-0.42	-0.44	-0.41	
	(0.08)	(0.09)	(0.11)	(0.13)	
Years 15–16	-0.51	-0.40	-0.46	-0.35	
(Year 15 + cols 1, 3)	(0.08)	(0.09)	(0.11)	(0.13)	
Years 17–18		-0.47		-0.45	
		(0.09)		(0.12)	
Years 19-20		-0.61		-0.66	
		(0.09)		(0.13)	
Years 21–22		-0.68°		-0.79°	
		(0.09)		(0.13)	
Years 23–24		-0.63		-0.68	
		(0.10)		(0.14)	
Years 25 plus		-0.75		-0.83	
r		(0.10)		(0.14)	

Panel B. Dependent variable is share of women currently divorced (census data)

	p(Currently	y divorced)	p(Currently divorced ever married)	
Dependent variable	1960–90 sample $n = 5,304$	1960–00 sample $n = 6,630$	1960–90 sample $n = 5,304$	1960–00 sample $n = 6,630$
Cell mean Law change has been in effect for:	11.2%	12.2%	12.8%	14.1%
1 to 10 years	0.0101 (0.0028)	0.0102 (0.0033)	0.0104 (0.0037)	0.0104 (0.0042)
11 to 20 years (11 years + cols 1, 3)	0.0100 (0.0034)	0.0093 (0.0035)	0.0106 (0.0031)	0.0097 (0.0034)
20 years plus		0.0064 (0.0053)	, ,	0.0068 (0.0047)

Notes: Panel A: See notes to Table 2. Panel B: See notes to Table 3.

hence the dependent variable has a mean of 5.9 rather than 3.9. These results yield an initial increase in divorce that is slightly more pronounced, while the subsequent decline is roughly similar to that shown in columns 1 and 2.

Beyond this, there may be changes at the quality margin that this quantity adjustment

does not address. These effects are difficult to measure, however, or even to sign. For instance, one might expect that reduced exit costs would lead to lower quality matches, which might raise the divorce rate. Against this, the benefits of marriage (tying your spouse to a contract) are reduced in a no-fault world, and hence the proportion of the population that is married may decline.

C. Contamination

It seems likely that unilateral divorce laws affect the divorce rate both directly through changing legal parameters, and indirectly by reducing the stigma associated with divorce. A thicker remarriage market may further reduce the cost of divorce. Reduced divorce stigma and enhanced remarriage prospects are unlikely to respect state boundaries. Thus, easier access to divorce in reform states may also reduce stigma in non-reform states, leading their divorce rates to rise, albeit with a lag. Further, it seems likely that legislative activism in reform states created pressure for more liberal judicial interpretation of ongoing consent divorce laws in other states (Rodgers et al., 1999; Glenn, 1999). Taking these factors together, it may be that the control states experienced de facto reform, leading the divorce rate to rise in the control states relative to that in the true reform states—possibly with a lag.

In the first column of Table 5, I attempt to control for the shock to local norms by adding a control for the proportion of neighboring states with unilateral divorce laws. While a norms-based story suggests that this variable will have a positive coefficient, it turns out to be statistically significant and negative, a result that is suggestive of migratory divorce (the administrative flow data reflect the state in which the divorce is obtained). The estimated effect of a state reforming its own laws is largely unchanged. That said, this strategy does not control for contamination effects to the extent that they represent national rather than local phenomena. I now turn to examining this issue further.

D. Regression to the Mean

While the basic method of this literature has been quasi-experimental—arguing that variation in unilateral divorce laws is exogenous—a close reading of the reform movement suggests that this is only partly true. While the timing of these reforms (among reform states) was probably random (Jacob, 1988), states with historically higher divorce rates were more likely to choose to reform their laws (see Figure 1, or Peters, 1992). This suggests that convergence in divorce norms, or regression to the mean, may

explain why divorce rates rose faster in control states, yielding negative coefficients.

Table 5 shows three attempts to highlight this issue. Columns 3 and 4 involve a simple control strategy, interacting a measure of the state's historical divorce propensity (the share of that state's population age 25 to 50 that reported ever being divorced in the 1950 Census), with a linear time trend, and time fixed effects, respectively. Column 3 confirms that the divorce rate spiked following reform, but highlights the fragility of the negative coefficients over the ensuing decade. Column 4 yields reasonably precise estimates suggesting no statistically significant effect of unilateral divorce laws. Column 5 exploits only that variation that is clearly quasi-experimental, restricting the sample to reform states; thus, the equation is identified only off the variation in timing of reform across reform states. In none of these cases do the long run effects of unilateral divorce laws appear to be significantly negative. Adding state-specific trends to the regressions in Table 5 yields qualitatively similar results.

V. Discussion

A clear finding from this analysis is that the divorce rate exhibits interesting dynamics in response to a change in legal regime. As a result, standard difference-in-difference approaches are led to confound pre-existing trends with the effects of the policy shock. A more plausible specification that takes explicit account of these dynamics yields new results that appear somewhat more robust.

The data broadly indicate that divorce law reform led to an immediate spike in the divorce rate that dissipates over time. After a decade, no effect can be discerned. This basic insight is robust to a range of alternative interpretations of divorce laws. Further, it is consistent with census data on the ever-divorced population. More puzzling, certain estimates suggest that the divorce rate declined over the ensuing period. This eventual decline in the divorce rate is less robust, and a range of alternative specifications suggests that this decline may be illusory.

How should these results inform our theories about the family? In terms of assessing the causes of the dramatic rise in U.S. divorces through the 1970s, these results suggest only a minor role for changing divorce laws. Figure 7

Table 5—Robustness Testing (Dependent variable: Annual divorces per 1,000 persons)

	From Table 4 (column 2)	Control for neighbor's reforms	Control for historical divorce rate * time trend	Control for historical divorce rate * time FE	Reform states only
	(1)	(2)	(3)	(4)	(5)
Law change has been in effect for:					
First 2 years	0.27	0.28	0.36	0.15	0.40
	(0.10)	(0.09)	(0.09)	(0.09)	(0.14)
Years 3–4	0.22	0.26	0.35	0.13	0.50
	(0.10)	(0.10)	(0.09)	(0.09)	(0.16)
Years 5–6	0.17	0.25	0.34	0.12	0.58
	(0.10)	(0.10)	(0.09)	(0.09)	(0.18)
Years 7–8	0.17	0.25	0.38	0.17	0.68
	(0.09)	(0.10)	(0.09)	(0.09)	(0.20)
Years 9-10	-0.10	-0.02	0.14	-0.03	0.49
	(0.09)	(0.10)	(0.09)	(0.09)	(0.22)
Years 11-12	-0.29	-0.21	-0.01	-0.17	0.34
	(0.09)	(0.09)	(0.09)	(0.09)	(0.23)
Years 13-14	-0.42	-0.33	-0.10	-0.19	0.27
	(0.09)	(0.10)	(0.09)	(0.09)	(0.24)
Years 15-16	-0.40	-0.31	-0.03	-0.10	0.32
	(0.09)	(0.10)	(0.09)	(0.09)	(0.26)
Years 17-18	-0.47	-0.38	-0.06	-0.07	0.28
	(0.09)	(0.10)	(0.09)	(0.09)	(0.28)
Years 19-20	-0.61	-0.51	-0.13	-0.14	0.17
	(0.09)	(0.10)	(0.09)	(0.09)	(0.29)
Years 21–22	-0.68	-0.59	-0.20	-0.22	0.14
	(0.10)	(0.10)	(0.10)	(0.09)	(0.31)
Years 23–24	-0.63	-0.54°	-0.16	$-0.12^{'}$	0.36
	(0.10)	(0.10)	(0.10)	(0.10)	(0.35)
Year 25 plus	-0.75	-0.65	-0.16	-0.04	0.47
1	(0.10)	(0.10)	(0.10)	(0.10)	(0.39)
Controls	` /	. ,	, ,	` ,	. ,
% Unilateral (adjoining states)		-0.30 (0.09)			
Time * historical divorce rate ^a		(0.02)	-0.72 (0.05)		
Time FE * historical divorce rate ^a			(0.00)	Yes	
Sample	1956-1998	1956-1998	1956-1998	1956–1998	1956-1998
Sumple	n = 2,102	n = 2,102	n = 2,102	n = 2,102	n = 1,288 (31 states)

Notes: Standard errors in parentheses. Estimated using state population weights. All regressions include state and year fixed effects.

maps the aggregate divorce rate against a counterfactual in which no states adopted unilateral divorce laws. It should be clear that unilateral divorce laws explain very little of the rise in the aggregate divorce rate.

These results do not yield a particularly clear answer to the motivating theoretical question of whether Coasian bargaining occurs between spouses. It is clear that divorce law has an effect on the divorce rate; it is less clear that this effect is persistent. While the finding of an effect (even if temporary) on divorce rates strictly falsifies the predictions of efficient Coasian bargaining, the more relevant question is: How important are bargaining frictions?

The results from the divorce law experiments analyzed in this paper suggest that the Coasian assumption of efficient bargaining arguably provides a more useful guide than the polar opposite assumption of no bargaining. To see why, consider the implications of the following simple arithmetic: if there is a probability p that married

^a The "historical divorce rate" is the share of the population aged 25–50 in each state ever divorced in the 1950 census. For Alaska and Hawaii, 1960 values are substituted.

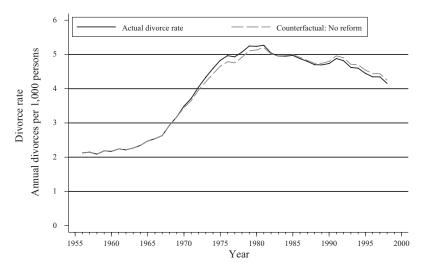


Figure 7. U.S. Divorce Rate: Effect of Divorce Laws

Notes: Figure is constructed based on the specification in column 3 of Table 5.

life will be sufficiently worse than expected that it leads a spouse to prefer divorce, and if these forecast errors are independent, then—in the absence of bargaining-both spouses will desire divorce in p^2 marriages (thereby meeting the requirement for a consent divorce), while at least one spouse will desire divorce in $2p - p^2$ marriages (thereby meeting the requirement for a unilateral divorce). In 1960, around one-fifth of all people living in consent divorce states had been through a divorce by age 50, suggesting that p =0.45. Thus, in the absence of bargaining, one would have expected the proportion of marriages ending in divorce to rise from 20 percent to around 70 percent, while my results suggest a rise of only around one-half of a percentage point, around one one-hundredth as large as suggested by the no-bargaining approach. (If the divorce rate rose by 0.2 to 0.3 divorces per 1,000 persons per year for a decade, this yields 4 to 6 more divorces per 1,000 men or women, or around half a percentage point.)

Of course, if bargaining occurs, in many cases in which one spouse finds their marriage to be less happy than expected, their partner may be able to redistribute the spoils of marriage to keep the couple together. Coasian bargaining is simply the limiting case in which the couple gets divorced only if it is jointly optimal. That the observed rise in divorce is so small relative to that suggested by the no-bargaining null suggests that spousal bar-

gaining is sufficiently close to efficient that, in the vast majority of cases, couples are able to effect sufficient transfers to stay married even when the law would allow the unhappy spouse unilaterally to exit the marriage. Wolfers (2003) develops this reasoning further, estimating that spousal bargaining saves around 98 percent of those marriages in which the change in divorce laws may have otherwise led one spouse to leave the marriage unilaterally. This analysis rests heavily on the assumption that each spouse has independent forecast errors, although the main insights drawn above are robust to allowing even quite substantial correlation in these errors.

Of course, the truth probably lies somewhere between these two extreme assumptions of independent shocks, or no spousal bargaining, and the safest conclusion is that the data suggest either that there is substantial agreement between spouses as to whether or not to seek a divorce, or that transaction costs are relatively small, facilitating considerable bargaining over rents. Further insight into this issue can be gained by examining changing distribution within marriage subsequent to the adoption of unilateral divorce laws, as in Stevenson and Wolfers (2006).

APPENDIX

Panel A reproduces the results from Friedberg's 1968–1988 sample. In panel B, I extend

(1) (2) (3) Basic State-specific State-specific specification trends linear trends quadratic Panel A. Friedberg's sample: 1968-88 (n = 1,043)Unilateral 0.004 0.447 0.441 (0.056)(0.050)(0.055)F = 8.9Year effects F = 89F = 95F = 217F = 196F = 131State effects State trend, linear F = 25F = 9.3No F = 6.5State trend, quadratic No No Adjusted R2 0.946 0.976 0.982 Panel B. Wolfers' sample: 1956-88 (n = 1,631)-0.055Unilateral 0.477 0.334 (0.050)(0.054)(0.046)Year effects F = 137F = 69F = 76State effects F = 207F = 454F = 511State trend, linear F = 51F = 54No State trend, quadratic No F = 17No

0.972

TABLE A1—EXTENDING THE SAMPLE (Friedberg's specification)

Notes: Standard errors in parentheses. Estimated using state population weights.

0.927

Friedberg's sample back to 1956. Divorce data were hand-entered from annual editions of *Vital Statistics*. Extending the data on divorce laws was relatively simple. In two cases, Friedberg codes the adoption of unilateral divorce as predating her sample—Alaska and Oklahoma. Gruber codes these reforms as having occurred in 1935 and 1953, respectively, and hence I simply follow his coding.

Adjusted R^2

These results are not particularly sensitive to extending the sample. At first glance, this is surprising—intuition suggests that the inclusion of a longer stretch of preintervention data offsets the bias issues described in the text. Simulations indicated that while adding centuries of preintervention data would indeed yield consistent estimates, the inclusion of another 12 years of data probably yields slightly *more* biased estimates.

REFERENCES

Allen, Douglas W. 1992. "Marriage and Divorce: Comment." *American Economic Review*, 82(3): 679–85.

Becker, Gary. 1981. A Treatise on the Family. Cambridge, MA: Harvard University Press.

Bertrand, Marianne, Esther Duflo, and Sendhil Mullainathan. 2004. "How Much Should We Trust Differences-in-Differences Estimates?"

Quarterly Journal of Economics, 119(1): 249–75.

0.982

Binner, Jane M., and Antony W. Dnes. 2001. "Marriage, Divorce, and Legal Change: New Evidence from England and Wales." *Economic Inquiry*, 39(2): 298–306.

Brinig, Margaret F., and Frank H. Buckley. 1998. "No-Fault Laws and At-Fault People." *International Review of Law and Economics*, 18(3): 325–40.

Dewald, William G., Jerry G. Thursby, and Richard G. Anderson. 1986. "Replication in Empirical Economics: The Journal of Money, Credit and Banking Project." *American Economic Review*, 76(4): 587–603.

Ellman, Ira M. 2000. "Divorce Rates, Marriage Rates, and the Problematic Persistence of Marital Roles." *Family Law Quarterly*, 34(1): 1–42.

Ellman, Ira Mark, and Sharon L. Lohr. 1998. "Dissolving the Relationship between Divorce Laws and Divorce Rates." *International Review of Law and Economics*, 18(3): 341–59.

Friedberg, Leora. 1998. "Did Unilateral Divorce Raise Divorce Rates? Evidence from Panel Data." *American Economic Review*, 88(3): 608–27.

Gatland, Laura. 1997. "Putting the Blame on

- No-Fault." American Bar Association Journal, 83(4): 50–54.
- **Glenn, Norval D.** 1997. "A Reconsideration of the Effect of No-Fault Divorce on Divorce Rates." *Journal of Marriage and the Family*, 59(4):1023–25.
- **Glenn, Norval D.** 1999. "Further Discussion of the Effects of No-Fault Divorce on Divorce Rates." *Journal of Marriage and the Family*, 61(3): 800–02.
- **Gruber, Jonathan.** 2004. "Is Making Divorce Easier Bad for Children? The Long-Run Implications of Unilateral Divorce." *Journal of Labor Economics*, 22(4): 799–833.
- **Jacob, Herbert.** 1988. Silent Revolution: The Transformation of Divorce Law in the United States. Chicago: University of Chicago Press.
- Johnson, John H., and Christopher J. Mazingo. 2000. "The Economic Consequences of Unilateral Divorce for Children." University of Illinois at Urbana-Champaign CBA Office of Research Working Paper 00–0112.
- McCullough, Bruce D., and Hrishikesh D. Vinod. 1999. "The Numerical Reliability of Econometric Software." *Journal of Economic Literature*, 37(2): 633–65.
- **Méchoulan, Stéphane.** 2006. "Divorce Laws and the Structure of the American Family." *Journal of Legal Studies*, 35(1): 143–74.
- Nakonezny, Paul A., Robert D. Shull, and Joseph L. Rodgers. 1995. "The Effect of No-Fault Divorce Law on the Divorce Rate across the 50 States and Its Relation to Income, Education and Religiosity." *Journal of Marriage and the Family*, 57(2): 477–88.

- **Peters, H. Elizabeth.** 1986. "Marriage and Divorce: Informational Constraints and Private Contracting." *American Economic Review*, 76(3): 437–54.
- **Peters, H. Elizabeth.** 1992. "Marriage and Divorce: Reply." *American Economic Review*, 82(3): 687–93.
- **Rasul, Imran.** 2004. "The Impact of Divorce Laws on Marriage." Unpublished.
- Rodgers, Joseph L., Paul A. Nakonezny, and Robert D. Shull. 1997. "The Effect of No-Fault Divorce Legislation: A Response to a Reconsideration." *Journal of Marriage and the Family*, 59(4): 1026–30.
- Rodgers, Joseph L., Paul A. Nakonezny, and Robert D. Shull. 1999. "Did No-Fault Divorce Legislation Matter? Definitely Yes and Sometimes No." *Journal of Marriage and the Family*, 61(3): 803–9.
- **Rowthorn, Robert.** 1999. "Marriage and Trust: Some Lessons from Economics." *Cambridge Journal of Economics*, 23(5): 661–91.
- Schoen, Robert, Harry N. Greenblatt, and Robert B. Mielke. 1975. "California's Experience with Non-Adversary Divorce." *Demography*, 12(2): 223–43.
- Stevenson, Betsey, and Justin Wolfers. 2006. "Bargaining in the Shadow of the Law: Divorce Laws and Family Distress." *Quarterly Journal of Economics*, 121(1): 267–88.
- Wolfers, Justin. 2003. "Did Unilateral Divorce Laws Raise Divorce Rates? A Reconciliation and New Results." National Bureau of Economic Research Working Paper 10014.

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- 5. Hope Corman, Dhaval Dave, Ariel Kalil, Nancy E. Reichman. 2017. Effects of maternal work incentives on youth crime. *Labour Economics* 49, 128-144. [Crossref]
- 6. Jeremy Greenwood, Nezih Guner, Guillaume Vandenbroucke. 2017. Family Economics Writ Large. Journal of Economic Literature 55:4, 1346-1434. [Abstract] [View PDF article] [PDF with links]
- 7. Caroline Hall, Erica Lindahl. 2017. Illness-related absence among preschool children: Insights from a health intervention in Swedish preschools. *Journal of Health Economics* **56**, 191-200. [Crossref]
- 8. Luca Aguzzoni, Benno Buehler, Luca Di Martile, Ron Kemp, Anton Schwarz. 2017. Ex-post Analysis of Mobile Telecom Mergers: The Case of Austria and The Netherlands. *De Economist* 60. . [Crossref]
- 9. Michael Luca, Deepak Malhotra, Christopher Poliquin. 2017. Handgun waiting periods reduce gun deaths. *Proceedings of the National Academy of Sciences* 114:46, 12162-12165. [Crossref]
- 10. Simon Sturn. 2017. Do Minimum Wages Lead to Job Losses? Evidence from OECD Countries on Low-Skilled and Youth Employment. *ILR Review* 5, 001979391774125. [Crossref]
- 11. Chiara Pronzato, Arnstein Aassve. 2017. Parental breakup and children's development: the role of time and of post-separation conditions. *Review of Economics of the Household* 170. . [Crossref]
- 12. Thomas Hellmann, Veikko Thiele. 2017. Partner Uncertainty and the Dynamic Boundary of the Firm. *American Economic Journal: Microeconomics* **9**:4, 277-302. [Abstract] [View PDF article] [PDF with links]
- Daniel Winchester, J. William Spencer, Denise M Baird. 2017. "I Felt Guilty for Being So Happy": Narrative Expressions and Management of Postdivorce Ambivalence. Sociological Focus 30, 1-17. [Crossref]
- 14. Roberto Ippoliti. 2017. Human Mating Theory, Migration, and Marital Dissolution. *Archives of Sexual Behavior* 5. . [Crossref]
- 15. Georgios Zervas, Davide Proserpio, John W. Byers. 2017. The Rise of the Sharing Economy: Estimating the Impact of Airbnb on the Hotel Industry. *Journal of Marketing Research* 54:5, 687-705. [Crossref]
- 16. Virginia Rosales, Dolores Jiménez-Rubio. 2017. Empirical analysis of civil litigation determinants: The Case of Spain. *European Journal of Law and Economics* 44:2, 321-338. [Crossref]
- 17. Ted Matherly, Zachary G. Arens, Todd J. Arnold. 2017. Big brands, big cities: How the population penalty affects common, identity relevant brands in densely populated areas. *International Journal of Research in Marketing*. [Crossref]
- 18. Jose V. Gallegos, Jan I. Ondrich. 2017. The effects of the Chilean divorce law on women?s first birth decisions. *Review of Economics of the Household* 15:3, 857-877. [Crossref]
- 19. Rafael Gonz?lez-Val, Miriam Marc?n. 2017. Divorce and the business cycle: a cross-country analysis. *Review of Economics of the Household* **15**:3, 879-904. [Crossref]

- Pierre-Andre Chiappori, Murat Iyigun, Jeanne Lafortune, Yoram Weiss. 2017. Changing the Rules Midway: The Impact of Granting Alimony Rights on Existing and Newly Formed Partnerships. The Economic Journal 127:604, 1874-1905. [Crossref]
- 21. Rafael González-Val, Miriam Marcén. 2017. Club Classification of US Divorce Rates. *The Manchester School* **62**. . [Crossref]
- 22. Jason M. Lindo, Analisa Packham. 2017. How Much Can Expanding Access to Long-Acting Reversible Contraceptives Reduce Teen Birth Rates?. *American Economic Journal: Economic Policy* 9:3, 348-376. [Abstract] [View PDF article] [PDF with links]
- 23. Ioana Popovici, Johanna Catherine Maclean, Bushra Hijazi, Sharmini Radakrishnan. 2017. The effect of state laws designed to prevent nonmedical prescription opioid use on overdose deaths and treatment. *Health Economics* 29. . [Crossref]
- 24. Raquel Fernández, Joyce Cheng Wong. 2017. Free to Leave? A Welfare Analysis of Divorce Regimes. American Economic Journal: Macroeconomics 9:3, 72-115. [Abstract] [View PDF article] [PDF with links]
- 25. Dolores Jiménez-Rubio, Pilar García-Gómez. 2017. Decentralization of health care systems and health outcomes: Evidence from a natural experiment. *Social Science & Medicine*. [Crossref]
- 26. Ricardo Mora, Iliana Reggio. 2017. Alternative diff-in-diffs estimators with several pretreatment periods. *Econometric Reviews* 88, 1-22. [Crossref]
- 27. Momoe Makino. 2017. Dowry in the absence of the legal protection of women?s inheritance rights. Review of Economics of the Household 100. . [Crossref]
- 28. Libertad González, Tarja Viitanen. 2017. The Long-Term Effects of Legalizing Divorce on Children. Oxford Bulletin of Economics and Statistics 62. . [Crossref]
- 29. John Douglas Skåtun. 2017. Bargaining on your Spouse: Coasean and Non-Coasean Behaviour Within Marriage. *Journal of Family and Economic Issues* **38**:2, 263-278. [Crossref]
- 30. Peter T. Leeson, Joshua Pierson. 2017. Economic origins of the no-fault divorce revolution. *European Journal of Law and Economics* 43:3, 419-439. [Crossref]
- 31. Jushan Bai, Yuan Liao. 2017. Inferences in panel data with interactive effects using large covariance matrices. *Journal of Econometrics*. [Crossref]
- 32. Marguerite Burns, Laura Dague. 2017. The effect of expanding Medicaid eligibility on Supplemental Security Income program participation. *Journal of Public Economics* 149, 20–34. [Crossref]
- 33. Jeanne Lafortune, Corinne Low. 2017. Tying the Double-Knot: The Role of Assets in Marriage Commitment. *American Economic Review* 107:5, 163-167. [Abstract] [View PDF article] [PDF with links]
- 34. Sylvia Allegretto, Arindrajit Dube, Michael Reich, Ben Zipperer. 2017. Credible Research Designs for Minimum Wage Studies. *ILR Review* **70**:3, 559-592. [Crossref]
- 35. Markus Gehrsitz. 2017. The effect of low emission zones on air pollution and infant health. *Journal of Environmental Economics and Management* 83, 121-144. [Crossref]
- 36. Sarah Bohn, Robert Santillano. 2017. Local Immigration Enforcement and Local Economies. Industrial Relations: A Journal of Economy and Society 56:2, 236-262. [Crossref]
- 37. P. Wesley Routon. 2017. Military service and marital dissolution: a trajectory analysis. *Review of Economics of the Household* 15:1, 335-355. [Crossref]
- 38. Kosali Simon, Aparna Soni, John Cawley. 2017. The Impact of Health Insurance on Preventive Care and Health Behaviors: Evidence from the First Two Years of the ACA Medicaid Expansions. *Journal of Policy Analysis and Management* 36:2, 390-417. [Crossref]

- 39. Resul Cesur, Erdal Tekin, Aydogan Ulker. 2017. Air Pollution and Infant Mortality: Evidence from the Expansion of Natural Gas Infrastructure. *The Economic Journal* 127:600, 330-362. [Crossref]
- 40. Angela K. Dills, Anca M. Grecu. 2017. Effects of state contraceptive insurance mandates. *Economics & Human Biology* 24, 30-42. [Crossref]
- 41. Marc Piopiunik, Jens Ruhose. 2017. Immigration, regional conditions, and crime: Evidence from an allocation policy in Germany. *European Economic Review* 92, 258-282. [Crossref]
- 42. Gordon Anderson, Teng Wah Leo. 2017. Quantifying the Progress of Economic and Social Justice: Charting Changes in Equality of Opportunity in the USA, 1960–2000. *Journal of Human Development and Capabilities* 18:1, 17-45. [Crossref]
- 43. Bruno Jeandidier. No-Fault Revolution and Divorce Rate 1-8. [Crossref]
- 44. Daniela Vuri. 2017. Joint custody law and mothers' labor market outcomes: evidence from the USA. *Journal of Population Economics*. [Crossref]
- 45. Wei Shi, Lung-fei Lee. 2017. The effects of gun control on crimes: a spatial interactive fixed effects approach. *Empirical Economics*. [Crossref]
- 46. Miriam Marcén. 2016. The Bosman ruling and the presence of native football players in their home league: the Spanish case. *European Journal of Law and Economics* **42**:2, 209-235. [Crossref]
- 47. Anupam Nanda, John M. Clapp, Katherine A. Pancak. 2016. Do Laws Influence the Cost of Real Estate Brokerage Services? A State Fixed Effects Approach. *Real Estate Economics* 44:4, 918-967. [Crossref]
- 48. Maria D. Fitzpatrick, Damon Jones. 2016. Post-baccalaureate migration and merit-based scholarships. *Economics of Education Review* 54, 155-172. [Crossref]
- 49. Sanna Huikari, Marko Korhonen, Mikko Puhakka. 2016. 'Til booze do us part: alcohol consumption and marital dissolution. *Empirical Economics* 51:2, 831-852. [Crossref]
- 50. Ho-Po Crystal Wong. 2016. CREDIBLE COMMITMENTS AND MARRIAGE: WHEN THE HOMEMAKER GETS HER SHARE AT DIVORCE. *Journal of Demographic Economics* 82:03, 241-279. [Crossref]
- 51. Shosei Sakaguchi. 2016. Estimation of time-varying average treatment effects using panel data when unobserved fixed effects affect potential outcomes differently. *Economics Letters* 146, 82-84. [Crossref]
- 52. Marianne P. Bitler, Christopher S. Carpenter. 2016. Health Insurance Mandates, Mammography, and Breast Cancer Diagnoses. *American Economic Journal: Economic Policy* 8:3, 39-68. [Abstract] [View PDF article] [PDF with links]
- 53. Mehmet Bac. 2016. The expectation effect of a fall in divorce costs. *International Review of Law and Economics* 47, 41-47. [Crossref]
- 54. Deniz Gevrek, Karen Middleton. 2016. Globalization and women's and girls' health in 192 UN-member countries. *International Journal of Social Economics* 43:7, 692-721. [Crossref]
- 55. Karla S. Bartholomew, Rahi Abouk. 2016. The Effect of Local Smokefree Regulations on Birth Outcomes and Prenatal Smoking. *Maternal and Child Health Journal* 20:7, 1526-1538. [Crossref]
- 56. Héctor Bellido, José Alberto Molina, Anne Solaz, Elena Stancanelli. 2016. Do children of the first marriage deter divorce?. *Economic Modelling* 55, 15-31. [Crossref]
- 57. Caroline Hall. 2016. Does more general education reduce the risk of future unemployment? Evidence from an expansion of vocational upper secondary education. *Economics of Education Review* **52**, 251-271. [Crossref]
- 58. Dolores Jiménez-Rubio, Nuno Garoupa, Virginia Rosales. 2016. Explaining divorce rate determinants: new evidence from Spain. *Applied Economics Letters* 23:7, 461-464. [Crossref]

- 59. Youjin Hahn, Hee-Seung Yang. 2016. Do Work Decisions among Young Adults Respond to Extended Dependent Coverage?. *ILR Review* **69**:3, 737-771. [Crossref]
- 60. Cheng Cheng. 2016. Does simplifying divorce and marriage registration matter? Evidence from China. *Applied Economics* **48**:17, 1560-1572. [Crossref]
- 61. Karen Mulligan. 2016. Access to Emergency Contraception and its Impact on Fertility and Sexual Behavior. *Health Economics* 25:4, 455-469. [Crossref]
- 62. Martin Halla, Mario Lackner, Johann Scharler. 2016. Does the Welfare State Destroy the Family? Evidence from OECD Member Countries. *The Scandinavian Journal of Economics* 118:2, 292-323. [Crossref]
- 63. Elisabetta Ruspini. Divorce Revolution 1-4. [Crossref]
- 64. Amanda J Felkey. 2016. Covenant Marriages: Increasing Commitment or Costs?. *Eastern Economic Journal* 82. . [Crossref]
- 65. Henry Saffer, Markus Gehrsitz. 2016. The effect of post-and-hold laws on alcohol consumption. *International Review of Law and Economics* **45**, 63-71. [Crossref]
- 66. Brendan Livingston. 2016. Murder and the black market: Prohibition's impact on homicide rates in American cities. *International Review of Law and Economics* 45, 33-44. [Crossref]
- 67. Jamein P. Cunningham. 2016. An evaluation of the Federal Legal Services Program: Evidence from crime rates and property values. *Journal of Urban Economics* **92**, 76–90. [Crossref]
- 68. Winnie Fung, Omar Robles. 2016. Effects of antenatal testing laws on infant mortality. *Journal of Health Economics* 45, 77-90. [Crossref]
- 69. Melissa A. Boyle, Joanna N. Lahey. 2016. Spousal labor market effects from government health insurance: Evidence from a veterans affairs expansion. *Journal of Health Economics* 45, 63-76. [Crossref]
- 70. Arthur Huber III, Rebecca Newman, Daniel LaFave. 2016. Cannabis Control and Crime: Medicinal Use, Dependization and the War on Drugs. *The B.E. Journal of Economic Analysis & Policy* 16:4. . [Crossref]
- 71. . References R1-R38. [Crossref]
- 72. Nancy E. Reichman, Hope Corman, Kelly Noonan. 2015. Effects of maternal depression on couple relationship status. *Review of Economics of the Household* 13:4, 929-973. [Crossref]
- 73. D. Mark Anderson, David Elsea. 2015. The Meth Project and Teen Meth Use: New Estimates from the National and State Youth Risk Behavior Surveys. *Health Economics* 24:12, 1644-1650. [Crossref]
- 74. Dan A. Black, Yu-Chieh Hsu, Lowell J. Taylor. 2015. The effect of early-life education on later-life mortality. *Journal of Health Economics* 44, 1-9. [Crossref]
- 75. Nicola Branzoli, Francesco Decarolis. 2015. Entry and Subcontracting in Public Procurement Auctions. *Management Science* 61:12, 2945-2962. [Crossref]
- 76. Stefan Bauernschuster, Rainald Borck. 2015. Formal Child Care and Family Structure: Theory and Evidence. *CESifo Economic Studies* ifv025. [Crossref]
- 77. Lena Edlund, Cecilia Machado. 2015. How the other half lived: Marriage and emancipation in the age of the Pill. *European Economic Review* **80**, 295-309. [Crossref]
- 78. Thomas Ahn, Aaron Yelowitz. 2015. The short-run impacts of Connecticut's paid sick leave legislation. *Applied Economics Letters* 22:15, 1267-1272. [Crossref]
- 79. Miriam Marcén. 2015. Divorce and the Birth Control Pill in the US, 1950–85. *Feminist Economics* 21:4, 151-174. [Crossref]
- 80. Kabir Malik, Maureen Cropper, Alexander Limonov, Anoop Singh. 2015. The Impact of Electricity Sector Restructuring on Coal-fired Power Plants in India. *The Energy Journal* 36:4. . [Crossref]

- 81. Michael Reich, Rachel West. 2015. The Effects of Minimum Wages on Food Stamp Enrollment and Expenditures. *Industrial Relations: A Journal of Economy and Society* **54**:4, 668-694. [Crossref]
- 82. Fatih Guvenen, Michelle Rendall. 2015. Women's emancipation through education: A macroeconomic analysis. *Review of Economic Dynamics* **18**:4, 931-956. [Crossref]
- 83. 2015. Abortion Context and Women's Contraceptive Use. *Perspectives on Sexual and Reproductive Health* 47:3, 157-159. [Crossref]
- 84. Alessandra Voena. 2015. Yours, Mine, and Ours: Do Divorce Laws Affect the Intertemporal Behavior of Married Couples?. *American Economic Review* **105**:8, 2295-2332. [Abstract] [View PDF article] [PDF with links]
- 85. Abhradeep Maiti. 2015. Effect of joint custody laws on children's future labor market outcomes. *International Review of Law and Economics* 43, 22-31. [Crossref]
- 86. Bradley R. Weinberg. 2015. A Quantitative Assessment of the Effect of First Contract Arbitration on Bargaining Relationships. *Industrial Relations: A Journal of Economy and Society* 54:3, 449-477. [Crossref]
- 87. Marko Korhonen, Mikko Puhakka. 2015. Revisiting unit roots in divorce rates. *Applied Economics Letters* 22:8, 628-631. [Crossref]
- 88. D. Mark Anderson, B. Hansen, D. I. Rees. 2015. Medical Marijuana Laws and Teen Marijuana Use. American Law and Economics Review. [Crossref]
- 89. Andriana Bellou. 2015. The impact of Internet diffusion on marriage rates: evidence from the broadband market. *Journal of Population Economics* 28:2, 265-297. [Crossref]
- 90. M. Bac. 2015. On the Selection Effects Under Consent and Unilateral Divorce. *American Law and Economics Review* 17:1, 43-86. [Crossref]
- 91. Byron Lutz. 2015. Quasi-Experimental Evidence on the Connection between Property Taxes and Residential Capital Investment. *American Economic Journal: Economic Policy* 7:1, 300-330. [Abstract] [View PDF article] [PDF with links]
- 92. Sietse Bracke, Klaas Mulier. 2015. Making divorce easier: the role of no-fault and unilateral revisited. European Journal of Law and Economics 82. . [Crossref]
- 93. Seth Freedman, Haizhen Lin, Kosali Simon. 2015. Public health insurance expansions and hospital technology adoption. *Journal of Public Economics* 121, 117. [Crossref]
- 94. Shoshana Grossbard. Household Economics 224-227. [Crossref]
- 95. Karen Mulligan. 2015. Contraception Use, Abortions, and Births: The Effect of Insurance Mandates. *Demography* **52**:4, 1195. [Crossref]
- 96. Kristin Mammen. 2015. Effects of Divorce Risk on Women's Labor Supply and Human Capital Investment. *Psychology* **06**:11, 1385. [Crossref]
- 97. Ronen Avraham, Max Schanzenbach. 2015. The impact of tort reform on intensity of treatment: Evidence from heart patients. *Journal of Health Economics* **39**, 273-288. [Crossref]
- 98. Thorsten Kneip, Gerrit Bauer, Steffen Reinhold. 2014. Direct and Indirect Effects of Unilateral Divorce Law on Marital Stability. *Demography* **51**:6, 2103-2126. [Crossref]
- 99. Shoshana Grossbard, Victoria Vernon. 2014. Common law marriage and couple formation. *IZA Journal of Labor Economics* 3:1. . [Crossref]
- 100. Erin Todd Bronchetti. 2014. Public insurance expansions and the health of immigrant and native children. *Journal of Public Economics* **120**, 205-219. [Crossref]
- 101. Catalina Amuedo-Dorantes, Chad Sparber. 2014. In-state tuition for undocumented immigrants and its impact on college enrollment, tuition costs, student financial aid, and indebtedness. *Regional Science and Urban Economics* 49, 11-24. [Crossref]

- 102. Leora Friedberg, Steven Stern. 2014. MARRIAGE, DIVORCE, AND ASYMMETRIC INFORMATION. *International Economic Review* 55:4, 1155-1199. [Crossref]
- 103. Lena Hassani-Nezhad, Anna Sjögren. 2014. Unilateral Divorce for Women and Labor Supply in the Middle East and North Africa: The Effect of Khul Reform. *Feminist Economics* **20**:4, 113-137. [Crossref]
- 104. Jenny Williams, Anne Line Bretteville-Jensen. 2014. Does liberalizing cannabis laws increase cannabis use?. *Journal of Health Economics* **36**, 20-32. [Crossref]
- 105. Marc Piopiunik. 2014. Intergenerational Transmission of Education and Mediating Channels: Evidence from a Compulsory Schooling Reform in Germany. *The Scandinavian Journal of Economics* 116:3, 878-907. [Crossref]
- 106. Leonard M. Lopoo, Kerri M. Raissian. 2014. U.S. Social Policy and Family Complexity. *The ANNALS of the American Academy of Political and Social Science* **654**:1, 213-230. [Crossref]
- 107. Tarja K. Viitanen. 2014. The divorce revolution and generalized trust: Evidence from the United States 1973–2010. *International Review of Law and Economics* 38, 25-32. [Crossref]
- 108. Elizabeth Mokyr Horner. 2014. Continued Pursuit of Happily Ever After: Low Barriers to Divorce and Happiness. *Journal of Family and Economic Issues* 35:2, 228-240. [Crossref]
- 109. Joanna N. Lahey. 2014. The Effect of Anti-Abortion Legislation on Nineteenth Century Fertility. *Demography* 51:3, 939-948. [Crossref]
- 110. Ramón López, Amparo Palacios. 2014. Why has Europe Become Environmentally Cleaner? Decomposing the Roles of Fiscal, Trade and Environmental Policies. *Environmental and Resource Economics* 58:1, 91-108. [Crossref]
- 111. Juho Härkönen. Divorce 303-322. [Crossref]
- 112. Dukpa Kim, Tatsushi Oka. 2014. DIVORCE LAW REFORMS AND DIVORCE RATES IN THE USA: AN INTERACTIVE FIXED-EFFECTS APPROACH. *Journal of Applied Econometrics* **29**:2, 231-245. [Crossref]
- 113. Trond G. Husby, Henri L.F. de Groot, Marjan W. Hofkes, Martijn I. Dröes. 2014. DO FLOODS HAVE PERMANENT EFFECTS? EVIDENCE FROM THE NETHERLANDS. *Journal of Regional Science* n/a-n/a. [Crossref]
- 114. Héctor Bellido, Miriam Marcén. 2014. Divorce laws and fertility. Labour Economics . [Crossref]
- 115. Marcus Dillender. 2014. The Death of Marriage? The Effects of New Forms of Legal Recognition on Marriage Rates in the United States. *Demography* . [Crossref]
- 116. Petter Lundborg, Anton Nilsson, Dan-Olof Rooth. 2014. Parental Education and Offspring Outcomes: Evidence from the Swedish Compulsory School Reform. *American Economic Journal: Applied Economics* 6:1, 253-278. [Abstract] [View PDF article] [PDF with links]
- 117. Helen F. Ladd, Clara G. Muschkin, Kenneth A. Dodge. 2014. From Birth to School: Early Childhood Initiatives and Third-Grade Outcomes in North Carolina. *Journal of Policy Analysis and Management* 33:1, 162-187. [Crossref]
- 118. Jeff Borland, Yi-Ping Tseng, Roger Wilkins. 2013. Does Coordination of Welfare Services Delivery Make a Difference for Extremely Disadvantaged Jobseekers? Evidence from the 'YP 4' Trial. *Economic Record* 89:287, 469-489. [Crossref]
- 119. Audrey Light, Yoshiaki Omori. 2013. Determinants of Long-Term Unions: Who Survives the "Seven Year Itch"?. *Population Research and Policy Review* **32**:6, 851-891. [Crossref]
- 120. Marco Gonzalez-Navarro. 2013. Deterrence and Geographical Externalities in Auto Theft. *American Economic Journal: Applied Economics* 5:4, 92-110. [Abstract] [View PDF article] [PDF with links]

- 121. Steffen Reinhold, Thorsten Kneip, Gerrit Bauer. 2013. The long run consequences of unilateral divorce laws on children—evidence from SHARELIFE. *Journal of Population Economics* 26:3, 1035-1056. [Crossref]
- 122. Jessamyn Schaller. 2013. For richer, if not for poorer? Marriage and divorce over the business cycle. *Journal of Population Economics* 26:3, 1007-1033. [Crossref]
- 123. Griffin Edwards. 2013. Tarasoff, duty to warn laws, and suicide. *International Review of Law and Economics* 34, 1-8. [Crossref]
- 124. Victor Hiller, Magali Recoules. 2013. Changes in divorce patterns: Culture and the law. *International Review of Law and Economics* 34, 77-87. [Crossref]
- 125. Martin Halla. 2013. THE EFFECT OF JOINT CUSTODY ON FAMILY OUTCOMES. *Journal of the European Economic Association* 11:2, 278-315. [Crossref]
- 126. Ismail Saglam. 2013. Divorce Costs and Marital Dissolution in a One-to-One Matching Framework With Nontransferable Utilities. *Games* 4:1, 106-124. [Crossref]
- 127. Cassandra Chaney, Colita Nichols Fairfax. 2013. A change has come: The Obamas and the culture of black marriage in America. *Ethnicities* 13:1, 20-48. [Crossref]
- 128. Delia Furtado, Miriam Marcén, Almudena Sevilla. 2013. Does Culture Affect Divorce? Evidence From European Immigrants in the United States. *Demography* . [Crossref]
- 129. DAVID M. BLAU, WILBERT van der KLAAUW. 2013. WHAT DETERMINES FAMILY STRUCTURE?. *Economic Inquiry* 51:1, 579-604. [Crossref]
- 130. Masayuki Kudamatsu. 2012. HAS DEMOCRATIZATION REDUCED INFANT MORTALITY IN SUB-SAHARAN AFRICA? EVIDENCE FROM MICRO DATA. *Journal of the European Economic Association* 10:6, 1294-1317. [Crossref]
- 131. Anna Amilon. 2012. The effects of a Danish legal reform on divorce probabilities and pension savings. *Review of Economics of the Household*. [Crossref]
- 132. Olivier Bargain, Libertad González, Claire Keane, Berkay Özcan. 2012. Female labor supply and divorce: New evidence from Ireland. *European Economic Review* 56:8, 1675-1691. [Crossref]
- 133. David S. Abrams. 2012. Estimating the Deterrent Effect of Incarceration Using Sentencing Enhancements. *American Economic Journal: Applied Economics* 4:4, 32-56. [Abstract] [View PDF article] [PDF with links]
- 134. Aaron K. Chatterji, Robert C. Seamans. 2012. Entrepreneurial finance, credit cards, and race. *Journal of Financial Economics* 106:1, 182-195. [Crossref]
- 135. H. Fisher. 2012. Divorce Property Division Laws and the Decision to Marry or Cohabit. *Journal of Law, Economics, and Organization* 28:4, 734-753. [Crossref]
- 136. Wolfgang Frimmel, Martin Halla, Rudolf Winter-Ebmer. 2012. Assortative mating and divorce: evidence from Austrian register data. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* no-no. [Crossref]
- 137. Berkay Özcan, Richard Breen. 2012. Marital Instability and Female Labor Supply. *Annual Review of Sociology* **38**:1, 463-481. [Crossref]
- 138. Rafael González-Val, Miriam Marcén. 2012. Breaks in the breaks: An analysis of divorce rates in Europe. *International Review of Law and Economics* **32**:2, 242-255. [Crossref]
- 139. Douglas W. Allen, Margaret Brinig. 2012. Child support guidelines and divorce incentives. International Review of Law and Economics . [Crossref]
- 140. DANIEL WORDEN. 2012. Fossil-Fuel Futurity: Oil in Giant. *Journal of American Studies* 46:02, 441-460. [Crossref]

- 141. John M. Nunley, Joachim Zietz. 2012. The Long-Run Impact of Age Demographics on the U.S. Divorce Rate. *The American Economist* 57:1, 65-77. [Crossref]
- 142. Rafael González-Val, Miriam Marcén. 2012. Unilateral divorce versus child custody and child support in the U.S. *Journal of Economic Behavior & Organization* 81:2, 613-643. [Crossref]
- 143. Kenneth R. Ahern, Amy K. Dittmar. 2012. The Changing of the Boards: The Impact on Firm Valuation of Mandated Female Board Representation *. *The Quarterly Journal of Economics* 127:1, 137-197. [Crossref]
- 144. Finn Christensen. 2012. The pill and partnerships: the impact of the birth control pill on cohabitation. *Journal of Population Economics* **25**:1, 29-52. [Crossref]
- 145. Audrey Light, Yoshiaki Omori. Can Long-Term Cohabiting and Marital Unions be Incentivized? 241-283. [Crossref]
- 146. Timothy J. Vogelsang. 2011. Heteroskedasticity, autocorrelation, and spatial correlation robust inference in linear panel models with fixed-effects. *Journal of Econometrics*. [Crossref]
- 147. Martin Halla, Johann Scharler. 2011. Marriage, Divorce, and Interstate Risk Sharing*. *The Scandinavian Journal of Economics* no-no. [Crossref]
- 148. Jason Abrevaya, Karen Mulligan. 2011. Effectiveness of state-level vaccination mandates: Evidence from the varicella vaccine. *Journal of Health Economics* **30**:5, 966-976. [Crossref]
- 149. Paolo Buonanno, Francesco Drago, Roberto Galbiati, Giulio Zanella. 2011. Crime in Europe and the United States: dissecting the 'reversal of misfortunes'. *Economic Policy* **26**:67, 347-385. [Crossref]
- 150. Douglas W. Allen, Margaret Brinig. 2011. Do Joint Parenting Laws Make Any Difference?. *Journal of Empirical Legal Studies* 8:2, 304-324. [Crossref]
- 151. Silke Anger, Michael Kvasnicka, Thomas Siedler. 2011. One last puff? Public smoking bans and smoking behavior. *Journal of Health Economics* 30:3, 591-601. [Crossref]
- 152. Benjamin Hansen, Matthew Lang. 2011. Back to school blues: Seasonality of youth suicide and the academic calendar. *Economics of Education Review*. [Crossref]
- 153. Amanda J Felkey. 2011. Will You Covenant Marry Me? A Preliminary Look at a New Type of Marriage. *Eastern Economic Journal* 37:3, 367-389. [Crossref]
- 154. Filip Vesely, Vivian Lei, Scott Drewianka. 2011. Do separation rules matter? An experimental study of commitment. *New Zealand Economic Papers* 45:1, 97-117. [Crossref]
- 155. Brandeanna D. Allen, John M. Nunley, Alan Seals. 2011. The Effect of Joint-Child-Custody Legislation on the Child-Support Receipt of Single Mothers. *Journal of Family and Economic Issues* 32:1, 124-139. [Crossref]
- 156. Chris M. Herbst. 2011. The Impact of the Earned Income Tax Credit on Marriage and Divorce: Evidence from Flow Data. *Population Research and Policy Review* **30**:1, 101-128. [Crossref]
- 157. Judith K Hellerstein, Melinda Sandler Morrill. 2011. Booms, Busts, and Divorce. *The B.E. Journal of Economic Analysis & Policy* 11:1. . [Crossref]
- 158. Gustavo J. Bobonis. 2011. The Impact of Conditional Cash Transfers on Marriage and Divorce. *Economic Development and Cultural Change* 59:2, 281-312. [Crossref]
- 159. J. M. Nunley. 2010. Inflation and other aggregate determinants of the trend in US divorce rates since the 1960s. *Applied Economics* **42**:26, 3367-3381. [Crossref]
- 160. E. Helland, G. Lee. 2010. Bargaining in the Shadow of the Website: Disclosure's Impact on Medical Malpractice Litigation. *American Law and Economics Review* 12:2, 462-508. [Crossref]
- 161. A. Leigh, C. Neill. 2010. Do Gun Buybacks Save Lives? Evidence from Panel Data. *American Law and Economics Review* 12:2, 462-508. [Crossref]

- 162. Colter Mitchell. 2010. Are Divorce Studies Trustworthy? The Effects of Survey Nonresponse and Response Errors. *Journal of Marriage and Family* **72**:4, 893-905. [Crossref]
- 163. Torkild Lyngstad, Marika Jalovaara. 2010. A review of the antecedents of union dissolution. Demographic Research 23, 257-292. [Crossref]
- 164. Adam D. Rennhoff. 2010. The Consequences of "Consideration Payments": Lessons from Radio Payola. *Review of Industrial Organization* 36:2, 133-147. [Crossref]
- 165. Scott Drewianka. Marital Institutions 1-4. [Crossref]
- 166. Thorsten Kneip, Gerrit Bauer. 2009. Did Unilateral Divorce Laws Raise Divorce Rates in Western Europe?. *Journal of Marriage and Family* 71:3, 592-607. [Crossref]
- 167. Jens Ludwig, Dave E. Marcotte, Karen Norberg. 2009. Anti-depressants and suicide. *Journal of Health Economics* 28:3, 659-676. [Crossref]
- 168. Valerio Filoso. 2009. DIVORCE AND THE OPTION VALUE OF MARITAL SEARCH. *Metroeconomica* **60**:1, 119-149. [Crossref]
- 169. Betsey Stevenson. 2008. Divorce Law and Women's Labor Supply. *Journal of Empirical Legal Studies* 5:4, 853-873. [Crossref]
- 170. Niko Matouschek, Imran Rasul. 2008. The Economics of the Marriage Contract: Theories and Evidence. *The Journal of Law and Economics* 51:1, 59-110. [Crossref]
- 171. Jeremy Greenwood, Nezih Guner. 2008. Marriage and Divorce since World War II: Analyzing the Role of Technological Progress on the Formation of Households. *NBER Macroeconomics Annual* 23:1, 231-276. [Crossref]
- 172. A. L. Wickelgren. 2007. Why Divorce Laws Matter: Incentives for Noncontractible Marital Investments under Unilateral and Consent Divorce. *Journal of Law, Economics, and Organization* 25:1, 80-106. [Crossref]