

# Does providing corruption information reduce vote share? A meta-analysis\*

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## Abstract

Do voters in democratic countries hold politicians accountable for corruption? Field experiments that provide voters with information about the corrupt acts of politicians then monitor vote choice have become standard in political science and economics. Similarly, vote choice survey experiments commonly provide respondents with information about the corrupt acts of hypothetical candidates. What have we learned from these experiments? A meta-analysis reveals that the aggregate treatment effect of providing information about corruption on vote share in field experiments is approximately zero percentage points. Compared to field experiments, survey experiments vastly overestimate the negative effects of corruption information on electoral outcomes. Holding other candidate features fixed by design, corrupt candidates are punished by respondents by approximately 33-35 percentage points across survey experiments, depending on estimation methods. This suggests that while vote-choice survey experiments may provide information on the directionality of informational treatments, the point estimates they provide may not be representative of real-world voting behavior.

[PRELIMINARY DRAFT: ADDITIONAL STUDIES TO BE ADDED AND POINT ESTIMATES REFINED. PLEASE DO NOT CITE OR CIRCULATE WITHOUT AUTHOR'S PERMISSION.]

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# 1 Introduction

Competitive elections create a system whereby voters can hold policy makers accountable for their actions. This mechanism should make politicians hesitant to engage in malfeasance such as blatant acts of corruption. Increases in public information regarding corruption should therefore decrease levels of corruption in government, as voters armed with information should expel corrupt politicians (Gray & Kaufman 1998; Kolstad & Wiig 2009; Rose-Ackerman & Palifka 2016). However, this theoretical prediction is undermined by the observation that well-informed voters continue to vote corrupt politicians into office in many democratic states. Political scientists and economists have therefore turned to experimental methods to test the causal effect of learning about politician corruption on vote choice.

Numerous experiments have examined whether providing voters with information about the corrupt acts of politicians decreases their re-election rates. Literature reviews preceding these projects often indicate that there is little consensus on how voters respond to information about corrupt politicians (Arias, Larreguy, Marshall, & Querubin 2018; Botero, Cornejo, Gamboa, Pavao, & Nickerson 2015; Buntaine, Jablonski, Nielson, & Pickering 2018; Klačnja, Lupu, & Tucker 2017; Solaz, De Vries, & de Geus 2018; ?). Others indicate that experiments have provided us with evidence that voters strongly punish individual politicians involved in malfeasance (Chong, De La O, Karlan, & Wantchekon 2014; Weitz-Shapiro & Winters 2017; Winters & Weitz-Shapiro 2015, 2016).

By contrast, this meta-analysis suggests that: (1) In aggregate, the effect of providing information about incumbent corruption on incumbent vote share in field experiments is approximately zero, and (2) compared to field experiments, survey experiments vastly overestimate the negative effects of corruption information on electoral outcomes. I also examine the mechanisms that may give rise to this discrepancy, exploring the possibility of publication bias, social desirability bias, lack of complexity and/or realism of hypothetical vignettes, and misinterpretation of results from conjoint experiments. I find no evidence of publication

bias, implying that the discrepancy arises due to differences in experimental design. Social desirability bias may cause survey experiments to capture anti-corruption norms rather than realistic voter behavior, and the same norms may cause voters to select a clean candidate in a simple hypothetical vignette where respondents lack information. Conjoint experiments attempt to alleviate this issue, but are often analyzed in ways that may fail to illuminate the most substantively important comparisons.

## 2 Corruption information and electoral accountability

Experimental support for the hypothesis that providing voters with information about politicians' corrupt acts decreases their re-election rates is ostensibly mixed. Field experiments have provided some causal evidence that informing voters of candidate corruption has negative (but generally small) effects on candidate vote-share. This information has been provided by: randomized financial audits (Ferraz & Finan 2008), fliers revealing corrupt actions of politicians, (Chong et al. 2014; De Figueiredo, Hidalgo, & Kasahara 2011), and even SMS messages (Buntaine et al. 2018). However, near-zero and null findings are also prevalent, and the negative and significant effects reported above sometimes only manifest in particular subgroups. Banerjee, Green, Green, and Pande (2010) primed voters in rural India not to vote for corrupt candidates, and Banerjee, Kumar, Pande, and Su (2011) provided information on politicians' spending discrepancies, with both studies finding near-zero and null effects on vote share. Boas, Hidalgo, and Melo (2018) similarly find zero and null effects from distributing fliers in Brazil. Finally, Arias et al. (2018); Arias, Larreguy, Marshall, and Querubin (2019) find that providing Mexican voters with information (fliers) about mayoral corruption actually *increased* incumbent party vote share by 3%.<sup>1</sup>

Survey experiments paint a much more optimistic picture, consistently showing large negative effects from information treatments on hypothetical vote share. These experiments often manipulate moderating factors other than information provision (e.g. quality

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<sup>1</sup>The authors theorize that this average effect stems from levels of reported malfeasance actually being lower than voters no-information expectations of corruption.

of information, source of information, whether the candidate is a co-partisan or co-ethnic, whether corruption brings economic benefits, etc.), but even so systematically show negative treatment effects (Anduiza, Gallego, & Muñoz 2013; Avenburg 2016; Banerjee, Green, McManus, & Pande 2014; Boas et al. 2018; Breitenstein 2019; Eggers, Vivyan, & Wagner 2018; Franchino & Zucchini 2015; Klašnja et al. 2017; Klašnja & Tucker 2013; Mares & Visconti 2019; Vera Rojas 2017; Weitz-Shapiro & Winters 2017; Winters & Weitz-Shapiro 2013, 2015, 2016, 2018).<sup>2</sup> Boas et al. (2018) note differential results that they obtain from a field and survey experiment (zero and null in field, large and negative in survey), arguing that this may reflect that norms against malfeasance in Brazil may not translate into action in real life. Meta-analysis confirms that this is not only the case for their experiment in Brazil, but extends across a systematic review of all studies conducted to date. Lab experiments that reveal corrupt actions to fellow players appear to have a similar bias to survey experiments, and also tend to show large negative treatment effects (Arvate & Mittlaender 2017; Azfar & Nelson 2007; Solaz et al. 2018).

### 3 Interactions with other candidate characteristics

Even if voters generally find corruption distasteful, other positive candidate attributes or policies may outweigh the negative effects of corruption to voters, mitigating the effects of information provision on vote-share.<sup>3</sup> These mitigating factors will naturally arise in a field setting, but may only be salient to respondents if specifically manipulated by researchers in a survey setting. A number of survey experiments have therefore added additional factors in addition to corruption as mitigating variables, some of which are described below.

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<sup>2</sup>These experiments have historically taken the form of single treatment arm or multiple arm factorial vignettes, but more recently have tended toward conjoint experiments (Breitenstein 2019; Chauchard, Klasnja, & Harish 2017; Franchino & Zucchini 2015; Klašnja et al. 2017; Mares & Visconti 2019).

<sup>3</sup>See De Vries and Solaz (2017) for an excellent overview.

### *3.1 Policy stances*

Response to favorable policy stances has been shown to potentially mitigate the impact of corruption to voters. [Rundquist, Strom, and Peters \(1977\)](#) use a survey experiment to show that a candidate’s position on the Vietnam War could significantly increase the likelihood of voting for a “corrupt” candidate in the United States. [Franchino and Zucchini \(2015\)](#) examine corruption in relation to a candidate’s education, income, tax policy, and same-sex marriage beliefs in Italy, and show that respondents prefer corrupt but socially and economically progressive candidates to clean but conservative candidates.

### *3.2 Economic benefit*

Economic benefit has been argued to act as a similar mitigating factor. [Klašnja et al. \(2017\)](#) randomize party, economic performance, and whether or not the politician’s corrupt act itself brought benefits to their constituents in Argentina, Chile, and Uruguay, finding evidence that voters are more forgiving of corruption when it benefits them personally. By contrast, [Winters and Weitz-Shapiro \(2013\)](#) use a survey experiment in Brazil to show that voters punish corrupt politicians at the polls, including those with strong records of past performance as measured by public goods provision.

### *3.3 Partisanship and in-group attachments*

Evidence of co-partisanship as a limiting factor to corruption deterrence is mixed. [Anduiza et al. \(2013\)](#) and [Breitenstein \(2019\)](#) both show that co-partisanship decreases the importance of corruption to Spanish voters using survey experiments. [Solaz et al. \(2018\)](#) induce in-group attachment in a lab-experiment of UK subjects, finding that in-group membership reduces sanction of “corrupt” participants. However, [Klašnja et al. \(2017\)](#) find relatively small effects of co-partisanship compared to corruption allegations (3.5x) in Argentina, Chile, and Uruguay,<sup>4</sup> and [Rundquist et al. \(1977\)](#) find null effects in the US in the 1970s. [Kon-](#)

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<sup>4</sup>The authors note that partisan attachments are particularly weak in these three countries.

stantinidis and Xezonakis (2013) also find that partisanship does not moderate electoral punishment of corruption in a survey experiment in Greece. This evidence unsurprisingly suggests that strong partisan effects occur where partisan attachments are strongest. Likewise, if co-ethnicity mitigates punishment of corrupt behavior, we may see these effects in highly fractionalized societies.

## 4 Research Design and Methods

### 4.1 Search methods and criteria for inclusion

I followed standard practices to locate the experiments included in the meta-analysis. This included following citation chains and conducting internet searches using the terms (“corruption field experiment,” “corruption factorial”, “corruption candidate choice”, “corruption conjoint”, “corruption, vote, experiment”, and “corruption vignette”). Papers from any discipline are eligible for inclusion, but in practice stem only from economics and political science. Both published articles and working papers are included so as to ensure the meta-analysis is not biased towards published results. In total, I located 10 field experiments from 8 papers, and 18 survey experiments from 15 papers.

Field experiments are included if researchers randomly assigned information regarding incumbent corruption (or possible corruption in the case of Banerjee et al. (2011)<sup>5</sup>) to voters, then measured corresponding voting outcomes. This therefore excludes experiments that randomly assign corruption information, but use favorability ratings or other metrics rather than actual vote share as their dependent variable (Green, Zelizer, Kirby, et al. 2018).<sup>6</sup> I include one natural experiment, Ferraz and Finan (2008), as random assignment was conducted by the Brazilian government.<sup>7</sup> Effects reported in the meta-analysis come from information

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<sup>5</sup>Banerjee et al. (2011) provided information on politicians’ spending discrepancies, which may imply corruption but is not as direct as other types of information provision. The overall null results are not sensitive to the inclusion of this estimate (see Figure A.1). The point estimates remain approximately zero percentage points using random effects estimation, and are approximately -1 percentage using fixed effects estimation.

<sup>6</sup>The assumption that a positive favorability rating would translate into a vote seems extreme.

<sup>7</sup>Consistent with complete knowledge of the assignment mechanism and randomization, Ferraz and Fi-

treatments on the entire sample of study only, not subgroup or interactive effects that reveal the largest treatment effects.<sup>8</sup>

For survey experiments, studies must test a no-information control group versus a corruption information treatment group and measure vote choice for a hypothetical candidate. This necessarily excludes studies that compare one type of information provision (e.g. source) to another and the control group is one type of information rather than no information, or where the politician is always known to be corrupt (Anduiza et al. 2013; Botero et al. 2015; Konstantinidis & Xezonakis 2013; Muñoz, Anduiza, & Gallego 2012; Rundquist et al. 1977; Weschle 2016). The “survey experiment” in De Figueiredo et al. (2011) is also excluded as it does not use hypothetical candidates, but instead asks voters if they would have changed their actual voting behavior in response to receiving corruption information.<sup>9</sup> In many cases, studies have multiple corruption treatments (e.g. high quality information vs. low quality information, co-partisan vs. opposition party, etc.). In these cases, I replicate the studies and code corruption as a binary treatment (0 = clean, 1 = corrupt) where *all* treatment arms that provide corruption information are combined into a single treatment. Studies that use non-binary vote choices are rescaled into a binary vote choice.<sup>10</sup> In some cases (5 total), point estimates, standard errors and/or confidence intervals are not explicitly reported, and standard errors are estimated by digitally measuring coefficient plots.<sup>11</sup>

A full list of all papers - disaggregated by field and survey experiments - that meet the criteria outlined above are provided in Table 1 and Table 2 below. A list of lab experiments (3 total) can also be found in and Table A.1, although these are not included in the analysis.

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nan (2008) regress pre-election audit status (i.e. treatment assignment) on electoral vote share to obtain their ATE estimate. The authors note that “because of the randomized auditing, the coefficient [on audit] provides an unbiased estimate of the average effect of the program on the electoral outcome of the incumbent politician.”

<sup>8</sup>The same subgroups are not tested across studies, making this comparison impossible.

<sup>9</sup>This study has a null finding. The overall results are not sensitive to the inclusion of this estimate. See Figure A.2 for meta-analysis including this study.

<sup>10</sup>For example, a 1-4 scale is recoded so that 1 or 2 is equal to no vote, and 3 or 4 is equal to a vote.

<sup>11</sup>I recognize that this introduces non-statistical measurement error into the meta-analysis. However, it is not possible for these errors to be large enough to effect the substantive conclusions of the analysis.

**Table 1: Field experiments**

| Study                               | Country | Treatment        |
|-------------------------------------|---------|------------------|
| Arias et al. (2018)                 | Mexico  | Fliers           |
| Banerjee et al. (2010) <sup>1</sup> | India   | Newspaper        |
| Banerjee et al. (2011) <sup>2</sup> | India   | Canvas/Newspaper |
| Boas et al. (2018)                  | Brazil  | Fliers           |
| Buntaine et al. (2018)              | Ghana   | SMS              |
| Chong et al. (2014)                 | Mexico  | Fliers           |
| De Figueiredo et al. (2011)         | Brazil  | Fliers           |
| Ferraz and Finan (2008)             | Brazil  | Audits           |

<sup>1</sup> Banerjee et al. (2010) treated voters with a campaign not to vote for corrupt candidates, but did not provide voters with information on which candidates were corrupt. The overall null results are not sensitive to the inclusion of this estimate. See Figure A.1.

<sup>2</sup> Banerjee et al. (2011) provided information on politicians' spending discrepancies, which may imply corruption but is not as direct as other types of information provision. The overall null results are not sensitive to the inclusion of this estimate. See Figure A.1.

**Table 2: Survey experiments**

| Study   | Country   | Type of survey |
|---|-----------|----------------|
| Avenburg (2016)                               | Brazil    | Vignette       |
| Banerjee et al. (2014)                        | India     | Vignette       |
| Breitenstein (2019)                           | Spain     | Conjoint       |
| Boas et al. (2018)                            | Brazil    | Vignette       |
| Chauchard et al. (2017) <sup>1</sup>          | India     | Conjoint       |
| Eggers et al. (2018)                          | UK        | Conjoint       |
| Franchino and Zucchini (2015)                 | Italy     | Conjoint       |
| Klašnja and Tucker (2013)                     | Sweden    | Vignette       |
| Klašnja and Tucker (2013)                     | Moldova   | Vignette       |
| Klašnja et al. (2017)                         | Argentina | Conjoint       |
| Klašnja et al. (2017)                         | Chile     | Conjoint       |
| Klašnja et al. (2017)                         | Uruguay   | Conjoint       |
| Mares and Visconti (2019)                     | Romania   | Conjoint       |
| Vera Rojas (2017)                             | Peru      | Vignette       |
| Winters and Weitz-Shapiro (2013)              | Brazil    | Vignette       |
| Winters and Weitz-Shapiro (2015)              | Brazil    | Vignette       |
| Winters and Weitz-Shapiro (2016) <sup>2</sup> | Brazil    | Vignette       |
| Weitz-Shapiro and Winters (2017) <sup>2</sup> | Brazil    | Vignette       |
| Winters and Weitz-Shapiro (2018)              | Argentina | Vignette       |

<sup>1</sup> Chauchard et al. (2017) include two treatments, wealth accumulation and whether the wealth accumulation was illegal. The effect reported here is the illegal treatment only. This is likely a conservative estimate, as the true effect is a combination of illegality and wealth accumulation.

<sup>2</sup> Winters and Weitz-Shapiro (2016) and Weitz-Shapiro and Winters (2017) report results from the same survey experiment. The results are therefore only reported once.



## 4.2 Results

Based on the meta-analyses shown in [Figure 1](#) and [Figure 2](#), survey experiments appear to vastly overestimate the ATE of providing information about corruption to voters relative to field experiments. In fact, the results in [Figure 1](#) reveal a point estimate of approximately zero and suggest that we cannot reject the null hypothesis of no treatment effect in field experiments. Based on a univariate Shapiro-Wilk test of normality, we also cannot reject the null hypothesis that the point estimates are distributed normally around a mean of approximately zero percentage points.

By contrast, holding other candidate features fixed by design, corrupt candidates are punished by respondents by approximately 35 percentage points in survey experiments based on fixed effects meta-analysis and 33 percentage points using random effects meta-analysis. Of the 18 survey experiments, only one shows a null effect ([Klašnja & Tucker 2013](#)), while all others are negative and significantly different from zero at conventional levels. Overall, these studies indicate a large electoral penalty for engaging in corrupt acts when voters are made aware of the malfeasance, but these results may not be reflective of real-world voter behavior.

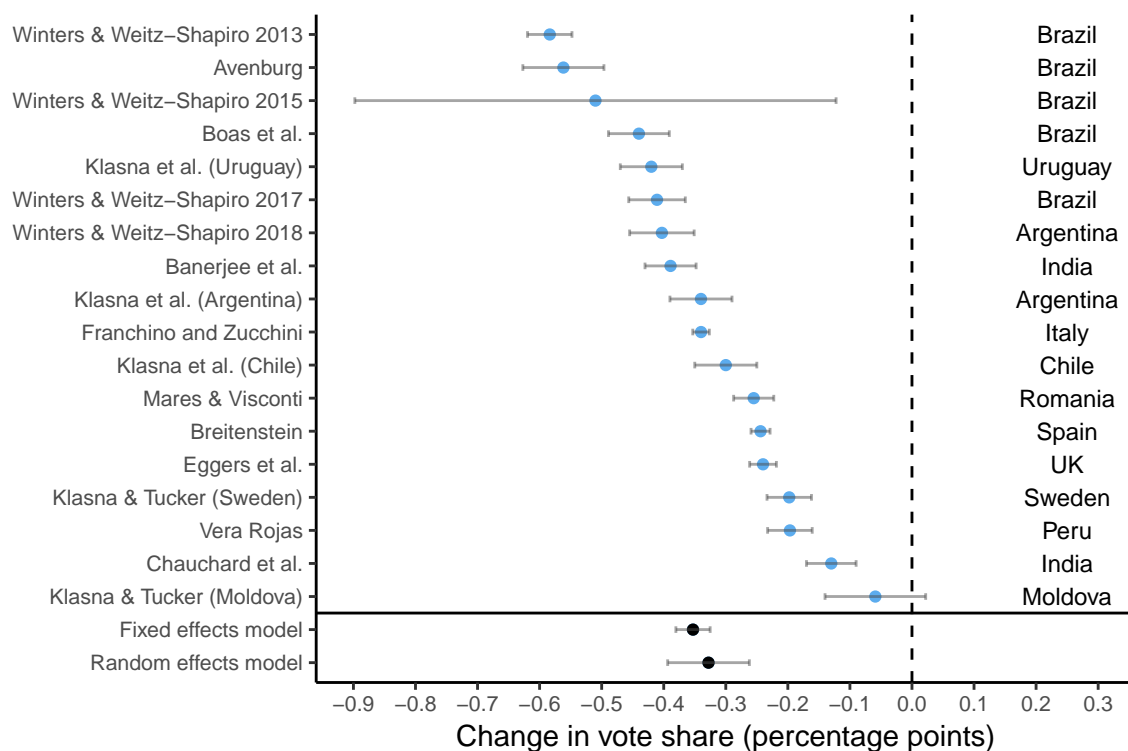
Examining all studies together, a test for heterogeneity by type of experiment (field or survey) reveals that up to 66% of the total heterogeneity across studies can be accounted for by including a dummy variable for type of experiment (0 = survey, 1 = field) in the model. This dummy variable has a significant influence on the effectiveness of the information treatment at the 1% level. In fact, the point estimate of this dummy variable is equal to 0.32, while the overall estimate across studies is -0.33,<sup>12</sup> implying that the predicted treatment effect across experiments is not significantly different from zero when an indicator for type of experiment is included in the model.

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<sup>12</sup>Using a mixed effects model with a field experiment moderator.



**Figure 1: Field experiments: Average treatment effect of corruption information on incumbent vote share**



**Figure 2: Survey experiments: Average treatment effect of corruption information on incumbent vote share**

## 5 Discussion

What accounts for the large difference in treatment effects between field and survey experiments? Three possibilities are publication bias, social desirability bias, and the nature of the survey designs. Null results may be less likely to be published than significant results, particularly in a survey setting. Respondents in survey experiments may also behave in a normatively desirable manner according to the perceived norms of society and/or the researcher. It is also possible that more complex factorial designs - such as conjoint experiments - may more successfully approximate real-world settings, and by extension field experiments.

### 5.1 *Publication bias and p-hacking*

A quick look at the papers included in the meta-analysis shows that of the ten field experiments found, only six are published. By contrast, only two of the 18 survey experiment papers remain unpublished. This may reflect that the null results that arise from field experiments are less likely to be published than their survey counterparts with large and highly significant negative treatment effects.

In order to more formally test for publication bias, I first attempt to employ the p-curve developed in [Simonsohn, Nelson, and Simmons \(2014a, 2014b\)](#) and [Simonsohn, Simmons, and Nelson \(2015\)](#). The p-curve is based on the premise that only “significant” results are typically published, and depicts the distribution of statistically significant p-values for a set of published studies. The shape of the p-curve is indicative of whether or not the results of a set of studies are derived from true effects, or from p-hacking. If effect sizes are clustered around 0.05 (i.e. the p-curve is “left skewed”), this may be evidence of p-hacking, indicating that studies with p-values just below 0.05 are “selectively reported.” If the p-curve is “right skewed” and there are more low p-values (0.01), this is evidence of true effects.

All significant survey experimental results included in the meta-analysis are significant at the 1% level (making construction of a “curve” with bins of width 0.01 impossible), implying that publication bias likely does not explain the large negative treatment effects in survey

experiments. Instead, it appears that the difference in experimental design itself accounts for the difference in the magnitude of treatment effects in field versus survey experiments. For field experiments, there is not a large enough number of published experiments to make the p-curve viable. Only six studies are published, and of these only four are significant at at least the 5% level.

Next, I test for publication bias by examining funnel plot asymmetry. A funnel plot depicts the outcomes from each study on the x-axis and their corresponding standard errors on the y-axis. The chart is overlaid with an inverted triangular confidence interval region (i.e. the “funnel”), which should contain 95% of the studies if there is no bias or between study heterogeneity. If studies with insignificant results remain unpublished or there is a large degree of asymmetry, the funnel plot may be asymmetric. Both visual inspection and regression tests of funnel plot asymmetry reveal an asymmetric funnel plot when survey and field experiments are grouped together (see [Figure A.3](#) and [Table A.2](#)). However, this asymmetry disappears when accounting for heterogeneity by type of experiment, either with the inclusion of a field experiment moderator (dummy) variable or by analyzing field and survey experiments separately (see [Figure A.4](#), [Figure A.5](#), [Figure A.6](#), and [Table A.2](#)). Once again, this implies that differences in the experimental design likely account for the difference in the magnitude of treatment effects in field versus survey experiments, not publication bias.

## 5.2 *Social desirability bias*

A second possible explanation is social desirability bias, in which survey respondents under-report behavior that they believe to be socially undesirable. The respondent may perceive a particular response to be normatively desirable by society as whole, by the researcher(s) conducting the experiment, or both, and respond to the survey in accordance with that norm. In the case of corruption, respondents are likely to perceive corruption as both normatively “wrong,” as well as harmful to society, the economy, and their own personal

well-being.<sup>13</sup> In a hypothetical vignette, they may therefore choose the socially desirable option (no corruption), particularly when the respondent is aware that he or she is being observed by a researcher.

A related explanation may be the selection of the socially desirable option when there are few downsides to doing so. A hypothetical vignette has virtually no costs to selecting the socially desirable option, even when moderating variables are included. In a field experiment, however, the cost of changing one's vote may be higher. Voters may have pre-existing opinions of real candidates that make them discount corruption information, or may have strong material and/or ideological incentives to stick with their candidate.

How might we overcome social desirability bias in survey experiments? One option is to eschew hypothetical candidates in favor of real candidates in experiments conducted during the timing of actual elections. Of course, for ethical reasons this likely limits researchers to having actual information regarding the corrupt actions of candidates. A second option is the use of list experiments or experiments which ask about the expected behavior of other individuals in response to new information. List experiments are surprisingly uncommon in corruption experiments (none of the survey experiments included here use this method), but a vote buying<sup>14</sup> experiment in Nicaragua estimated that only 2% of respondents admitted directly to being offered compensation in exchange for their vote, but 24% of respondents admitted to the practice in a list experiment (Gonzalez-Ocantos, De Jonge, Meléndez, Osorio, & Nickerson 2012). A third option, which I turn to next, is the use of more complex factorial designs such as conjoint experiments.

### *5.3 Survey complexity and conjoint experiments*

As noted in [Section 3](#) above, the fact that moderating variables may dampen the salience of corruption to voters has not been lost on previous researchers, who have attempted to capture these factors via the inclusion of multiple treatment arms that vary policy stances,

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<sup>13</sup>Non-experimental surveys indicate the respondents in highly corrupt countries tend to view corruption as a serious problem that often tops their list of political considerations.

<sup>14</sup>Typically considered a form of corruption.

quality of information, economic benefit, and partisanship. However, the meta-analysis shown above indicates that even the inclusion of these moderators does not move point estimates close to the (approximately zero) field setting, in which all of these moderating factors may be salient to the voter. By contrast, conjoint experiments allow researchers to randomize a much larger host of candidate characteristics and may help illuminate the mechanisms that lead to these small effect sizes. This may also minimize social desirability bias, as it reduces the probability that the respondent is aware of the researcher’s primary experimental manipulation of interest (e.g. corruption).

Researchers have thus far tended to present the results of conjoint experiments as individual average marginal component effects (AMCEs), then compare the magnitude of these effect sizes. A more appropriate method may be to calculate the average marginal effects of a vector of moderating variables. To illustrate this point, I calculate average marginal effects as a function of two policy positions - tax policy and same sex marriage - and corruption for conservative and liberal respondents using the conjoint experiment conducted in Italy by [Franchino and Zucchini \(2015\)](#).<sup>15</sup> The results are presented in [Figure 3](#) and [Figure 4](#), and show that even for corrupt candidates in the conjoint, the right policy platform can garner over 50% of the predicted hypothetical vote.

Policy profiles that result in over 50% of voters selecting a “corrupt” candidate may not be outliers in real-world scenarios. Unlike in conjoint experiments, real-world candidates’ policy profiles are not selected randomly, but rather represent choices designed to appeal to voters. It may therefore be preferable to analyze conjoint experiments as above, comparing outlier characteristics (e.g. corruption) to realistic candidate profiles rather than fully randomized candidate profiles. For example, in the US context, perhaps the relevant metric of interest would be to look at the impact of corruption on vote choice for a Democratic respondent examining a Democratic candidate who espouses their preferred policy positions and attributes, rather than looking at the magnitude of the corruption AMCE versus each

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<sup>15</sup>To my knowledge, this remains the only published conjoint experiment with a corruption treatment and publicly available replication data.

individual policy AMCE.

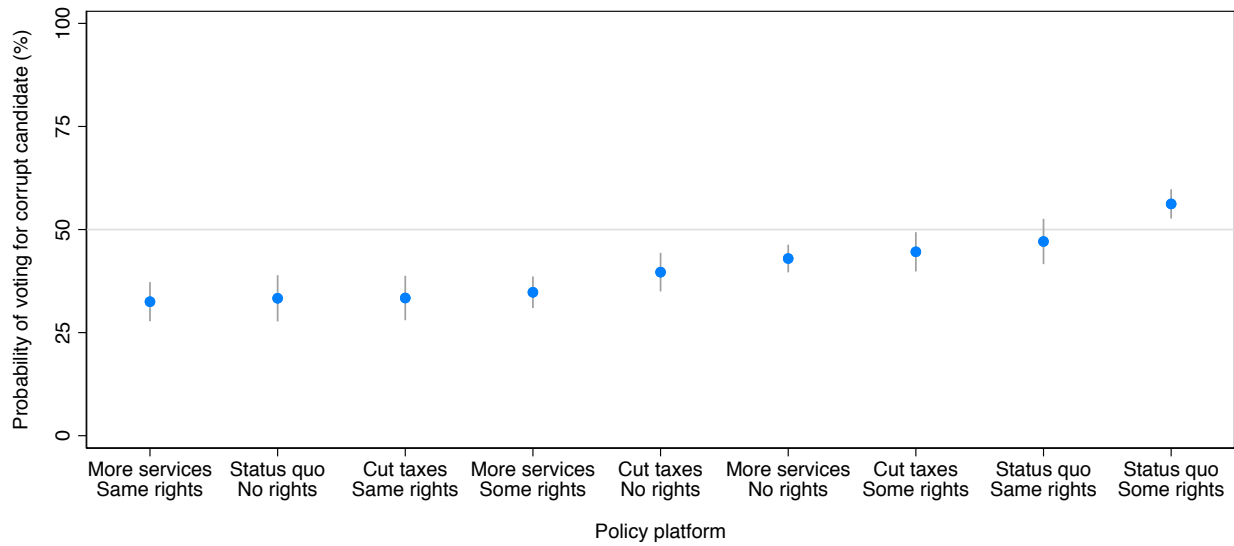


Figure 3: Franchino and Zucchini (2015) conjoint: can policy positions overcome corruption (conservative respondents)?

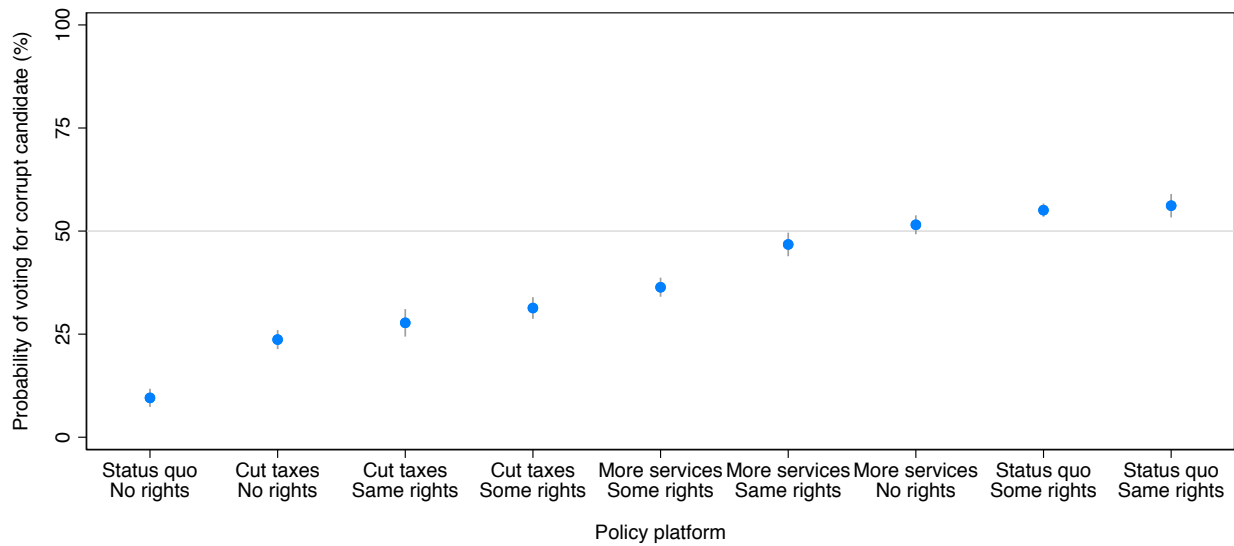


Figure 4: Franchino and Zucchini (2015) conjoint: can policy positions overcome corruption (liberal respondents)?

## 6 Conclusion

Competitive elections should naturally create a system of accountability, whereby voters expel politicians from office for engaging in malfeasance. However, this mechanism cannot operate without informed voters who are aware of the actions of politicians. In an effort to test whether voters adequately hold politicians accountable for malfeasance, political scientists and economists have turned to experimental methods to test the causal effect of learning about politician corruption on vote choice.

A meta-analytic assessment of these experiments reveals that the conclusions drawn differ drastically depending on whether the experiment was deployed in the field and monitored actual vote choice, versus hypothetical vote choice in an online setting. Across field experiments, the aggregate treatment effect of providing information about corruption on vote share is approximately zero. By contrast, in survey experiments corrupt candidates are punished by respondents by approximately 33-35 percentage points, depending on estimation methods.

I explore four possible explanations that may explain this discrepancy: publication bias and/or p-hacking, social desirability bias, lack of complexity and realism of hypothetical vignettes, and misinterpretation of results from conjoint experiments. I find no evidence of publication bias, implying that discrepancy arises due to differences in experimental design. Past experiments have suggested that social desirability bias may arise in corruption experiments, suggesting that survey experiments may be capturing strong anti-corruption norms rather than realistic voter behavior. These same norms may cause voters to select the clean candidate in a simple hypothetical vignette where few candidate traits are known. High-dimension factorial designs such as conjoint experiments may alleviate this issue. However, it may be preferable to analyze vote-choice conjoint experiments by comparing the probability of voting for a candidate with outlier characteristics such as corruption to the probability of voting for a realistic candidate without this characteristic, rather than examining differences



in average marginal component effects across fully randomized candidate profiles, since these are untenable and so tell us little about real-world electoral choices.

These findings suggest that while vote-choice survey experiments may provide information on the directionality of informational treatments, the point estimates they provide may not be representative of real-world voting behavior. More generally, researchers should exercise caution when interpreting actions taken in hypothetical vignettes as indicative of real world behavior such as voting.

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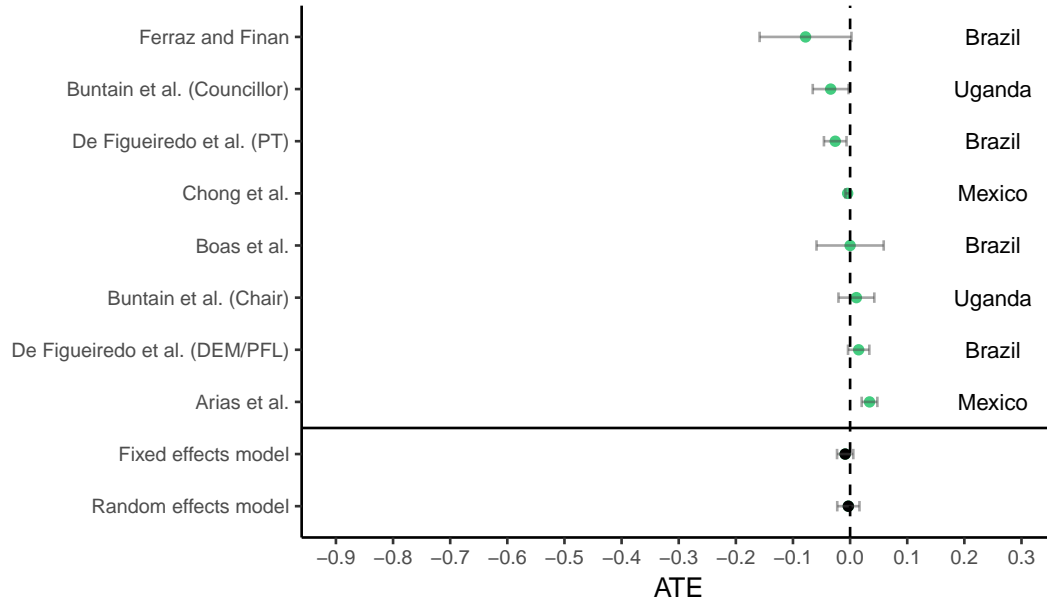
## A Appendix

### A.1 *Lab experiments*

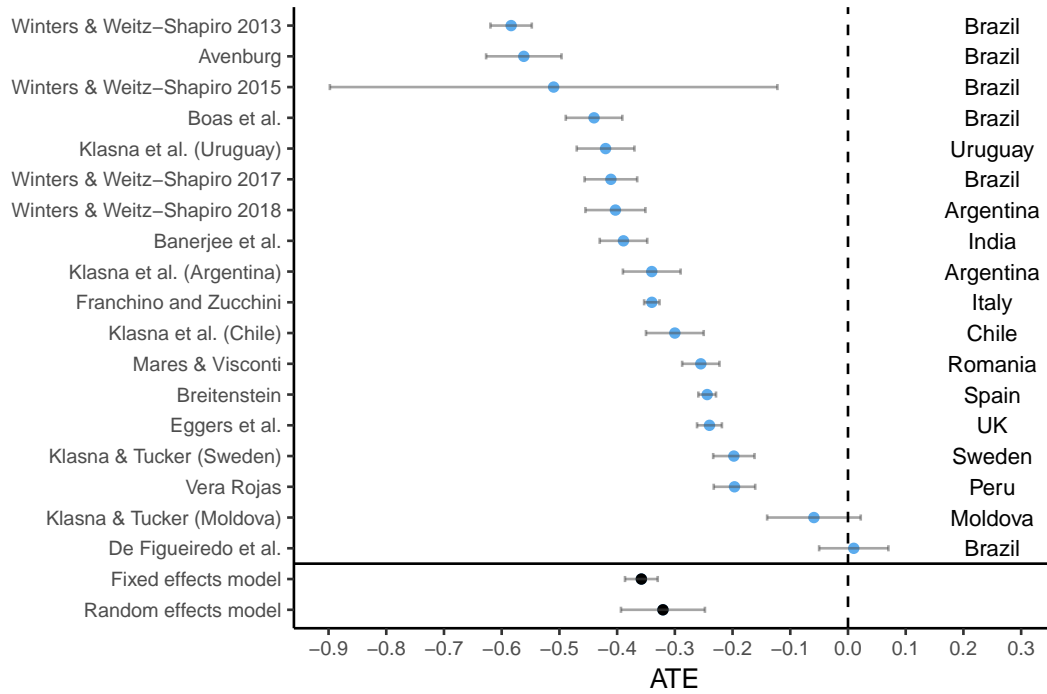
**Table A.1: Lab experiments**

| Study                         | Country | Treatment   | ATE      |
|-------------------------------|---------|-------------|----------|
| Arvate and Mittlaender (2017) | Brazil  | Information | Negative |
| Azfar and Nelson (2007)       | USA     | Information | Negative |
| Solaz et al. (2018)           | UK      | Information | Negative |

## A.2 Robustness checks



**Figure A.1: Field experiments: Average treatment effect of corruption information on incumbent vote share (excluding Banerjee et al. (2010) and Banerjee et al. (2011))**



**Figure A.2: Survey experiments: Average treatment effect of corruption information on incumbent vote share (including De Figueiredo et al. (2011))**

### A.3 Publication bias

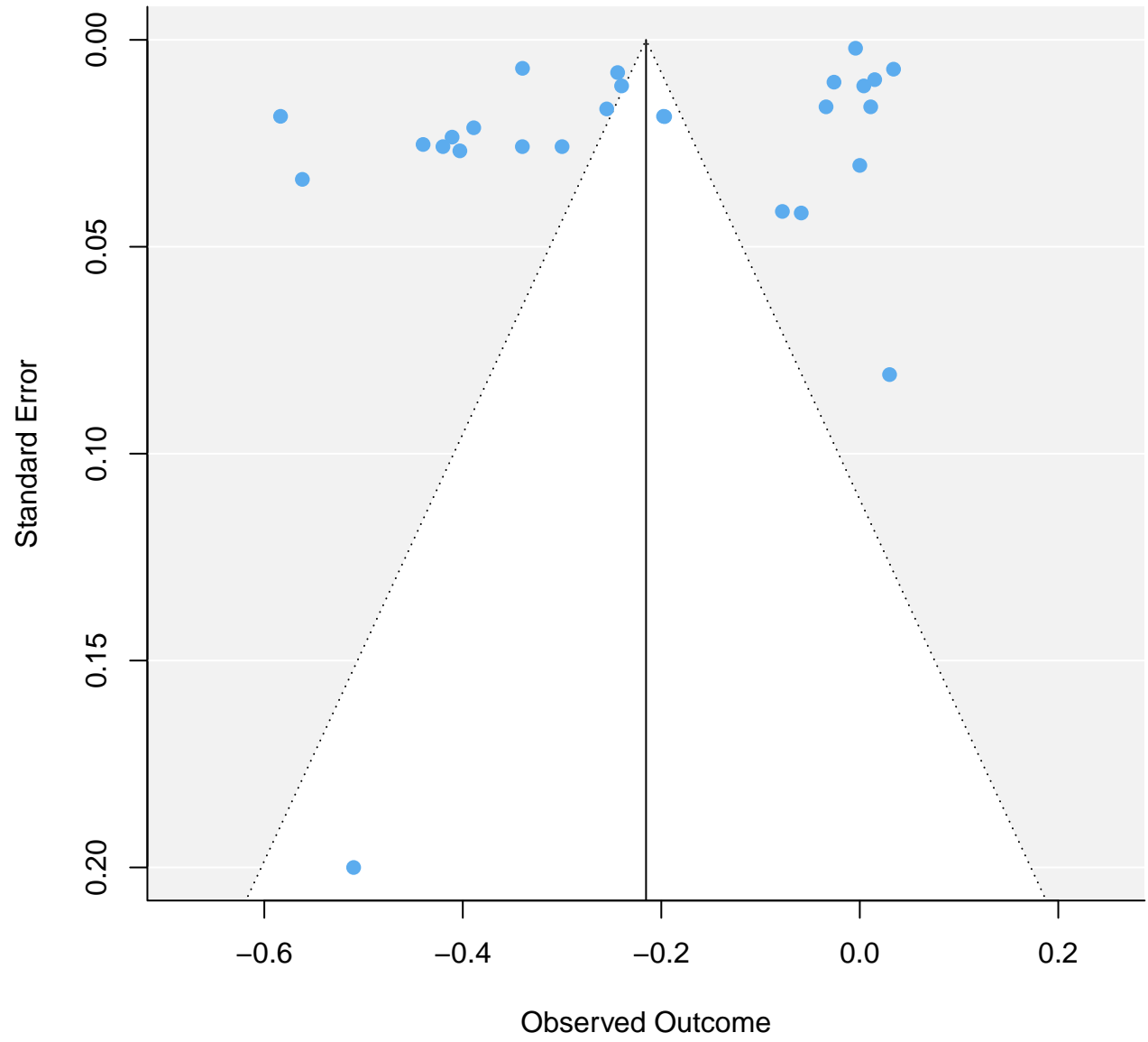


Figure A.3: Funnel plot: all experiments



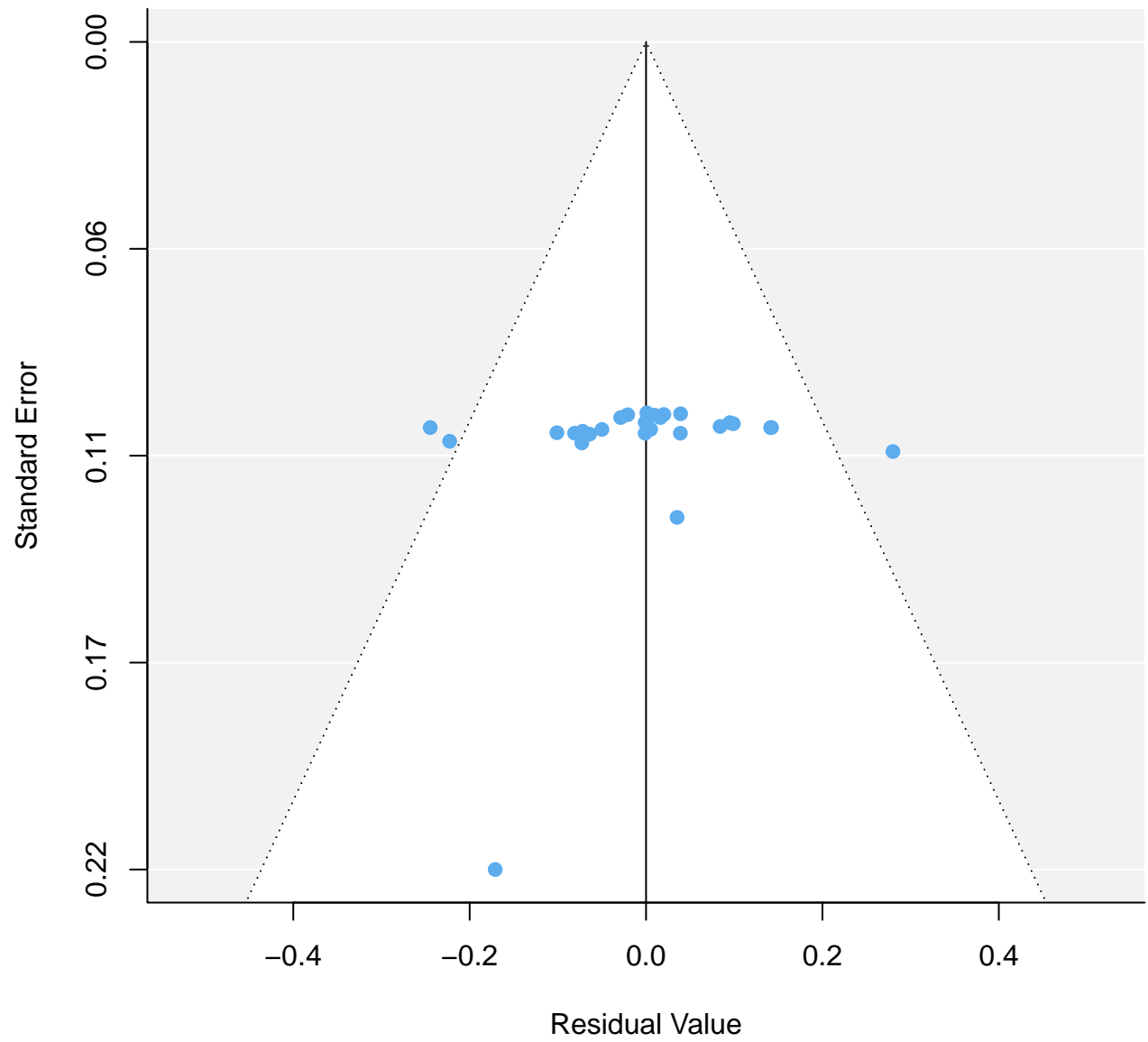


Figure A.4: Funnel plot: all experiments with field experiment moderator

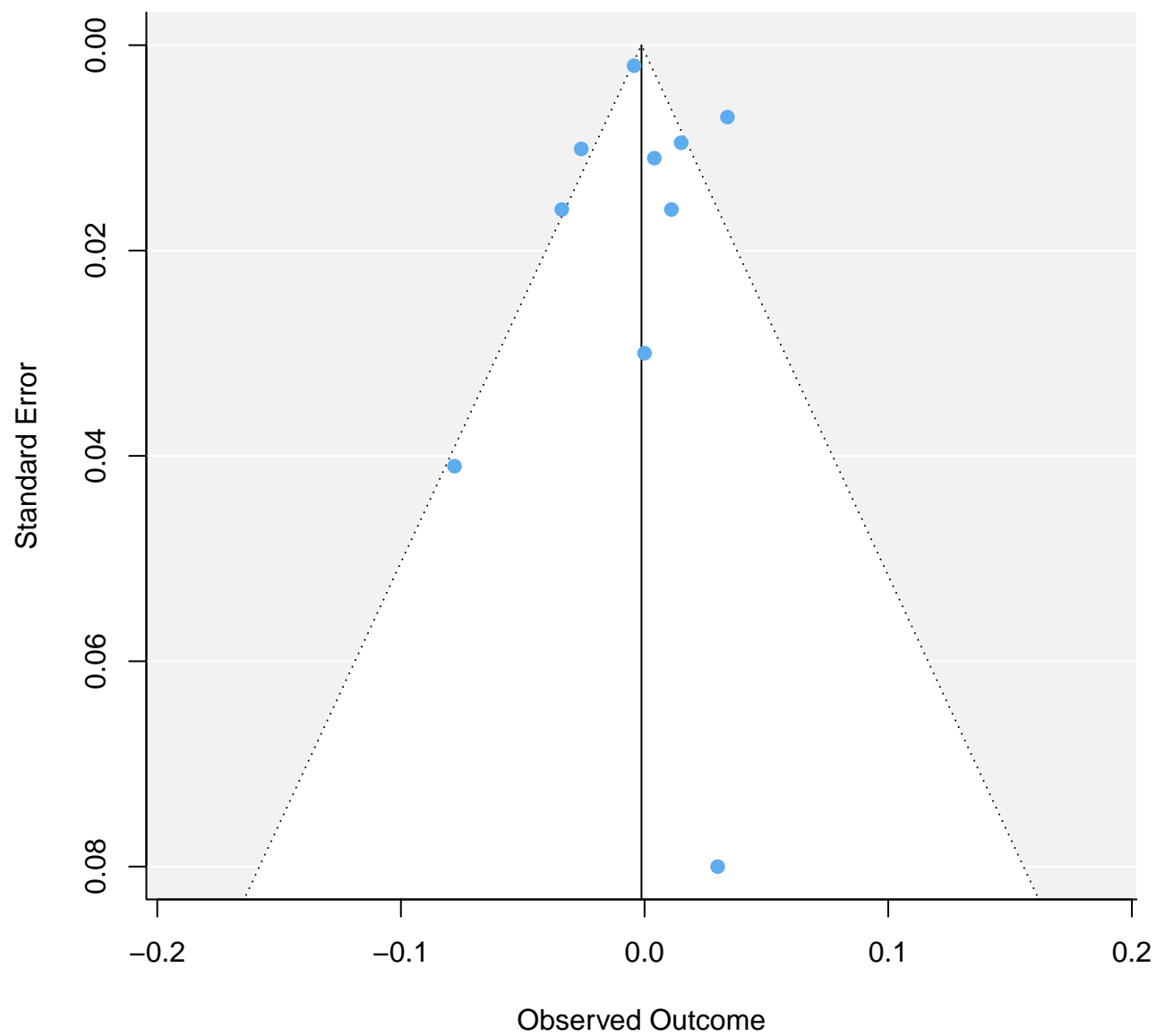


Figure A.5: Funnel plot: field experiments

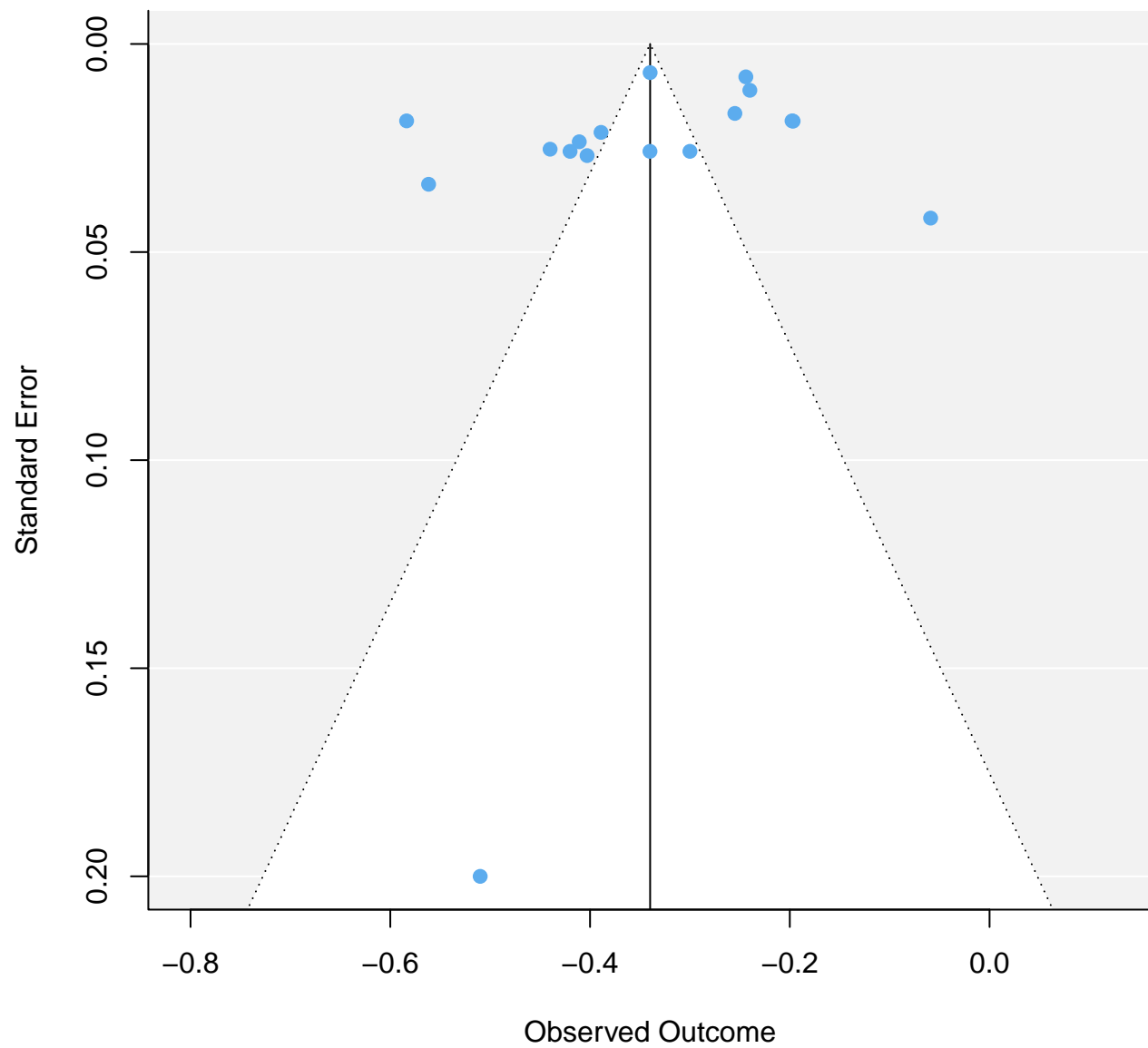


Figure A.6: Funnel plot: survey experiments

**Table A.2: Regression tests for funnel plot asymmetry**

| Studies included   | p-value |
|--------------------|---------|
| All                | 0.0016  |
| All with moderator | 0.4512  |
| Field              | 0.8403  |
| Survey             | 0.3159  |