

Three Essays on Sanctions of Politicians in Brazil

A proposal submitted in partial fulfillment of the requirements for the Degree of Doctor of
Philosophy in Public Policy

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Abstract

This dissertation project will investigate the relationship between legal sanctions and politics in Brazil. In the first paper, I look at the effect of convictions for electoral infractions on electoral performance in four municipal elections between 2004 and 2016. The second paper tests whether State Court judges significantly rule in favor of politicians involved in small claim court cases. Finally, the last paper investigates whether active and passive transparency simultaneously improve government performance and increase the number of legal sanctions for government wrongdoing. These papers contribute significantly to the literature in political science, economics, and law by exploring the relationship between legal sanctions and local political dynamics in developing countries. In addition, I also contribute new data sources in the form of judicial decisions and innovative identification strategies using institutional features of Brazilian electoral and judicial systems.

Keywords: political economy of development; electoral politics; judicial politics; transparency; economics of crime.

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1 Electoral Crime Under Democratic Rule: Evidence from Brazil

1.1 Introduction

In democratic regimes, office-seeking politicians employ various tactics to get elected. They might promise more resources to increase the provision of local public goods, such as schools, hospitals, or roads; they can run ads on TV and, more recently, on social media to promote their candidacy; they could even meet with their constituents and gain their vote by establishing a personal connection with them. While these tactics are different, sometimes complementary means a politician could deploy to win an election, they all characterize *play-by-the-rules* strategies. Governments generally allow such practices because they are fair electoral weapons which make electoral systems competitive. In this paper, however, I focus on forbidden, and less understood, ways to win an election by *breaking the rules* and deploying illegal tactics to shape election results.

Scholars have not ignored the various forms in which politicians break electoral rules to win elections. Lehoucq (2003) offers a comprehensive account of electoral fraud, which takes up a variety of forms such as procedural rule-breaking, illegal campaigning, violence, and even unequivocal vote buying. In a more recent study, Gans-Morse et al. (2013) design a theoretical framework encompassing four types of clientelism practices (vote, turnout, and abstention buying, and double persuasion) and their adoption under five different institutional designs. Their key insight is that the electoral system shapes the type of clientelism employed for electoral gain.

Indeed, most recent studies looking into illegal electoral tactics have two common characteristics: first, they are largely concerned with coercive threats that prevent free and fair elections, as suggested by Mares and Young (2016); second, they focus heavily on non or partially democratic regimes, evidenced by the vast literature on electoral authoritarianism (Gandhi and Lust-Okar, 2009; Levitsky and Way, 2002; Schedler, 2015; Ichino and Schündeln, 2012; Asunka et al., 2017). Despite the richness of this literature, I address two unexplored issues that are supplemental to our understanding of how individuals might break the rules in order to get elected.

The first contribution is uncovering the effect of electoral infractions that are harder to detect or whose relationship with electoral outcomes is less known or well understood. For instance, politicians might use illegal forms of advertising or slush funds to spend beyond their campaign limits in order to win an election. Likewise, candidates and political parties might not meet all requirements for submitting candidacies, such as been cleared of previous crime accusations – which is a special provision in Brazilian electoral law. The second contribution is precisely understanding how electoral infractions shape electoral outcomes in one of the top five largest democracies in the world. Despite a recent fallback, Brazil consistently ranked in the top 10% countries in the V-Dem Electoral Democracy Index for the period under study (Coppedge et al., 2018).

The present study also contributes to the broader literature of political economy of development. Brazil has a unique institutional design in which the judiciary branch has an entire system of state (TRE) and federal (TSE) electoral courts resolving electoral claims. Their mandate is to guarantee free and fair competition for public office, enforcing the Brazilian Electoral Code of

1965 and subsequent legislation. To the extent that the Electoral Courts are successful in rooting out wrongdoing, we should expect more electoral accountability from office-holding politicians. In addition, this paper investigates another source of judiciary power beyond setting legal disputes between economic agents; since every political candidate in Brazil needs a judicial approval when running for office, the Electoral Court holds an enormous amount of power in deciding who is or is not authorized to take up office.

Another important contribution in this study is the use of court documents as data. I collect and code judicial rulings from TRE and TSE courts on candidacy of politicians running for municipal office in Brazilian elections between 2004 and 2016. From these documents, I extract information on individual judge characteristics and electoral irregularities candidates are accused of, and ultimately convicted for, when running for office. Not only can I provide an estimate for the average treatment effect of electoral infractions on ballot performance but I can also estimate heterogeneous effects by type of violation. This project is part of a recent wave of studies using court documents to measure economic and political outcomes in development settings (Sanchez-Martinez, 2018; Lambais and Sigstad, 2018).

Using these court documents, I recover the causal effect of electoral irregularities adopting an instrumental variable (IV) strategy in which the ruling at the trial stage, issued before election day but endogenous to each electoral race, is instrumented by the decision at the appeals stage after election day has passed, which is uncorrelated with electoral performance beyond its link to the first decision at trial. Thus, for a subsample of candidates running for office who had an untried appeal standing at the time of election, I can identify the causal effect of electoral violations on performance.

The preliminary results are encouraging. First-stage F -statistics are large and significant at 1 percent for both models including and excluding political characteristics ($F = 1,092$ and $F = 16,356$). OLS and reduced-form parameter estimates are very close in magnitude and significant at 1 percent, strongly indicating that the instrument is orthogonal to the error term in the first stage. In my preferred IV model including political characteristics as controls, having been convicted of an electoral crime reduces the probability of election and total vote share for mayor and city council candidates by 28.8 and 17.9 percentage points, respectively. Though we should be careful when comparing these results with studies looking at punishment for corruption (Ferraz and Finan, 2008, 2011; Winters and Weitz-Shapiro, 2013), which is a broader but more severe crime, the evidence consistently points to the negative impact on electoral performance when politicians decide to break the rules.

In the remainder of this proposal, I explain the institutional background allowing for causal identification in section 1.2, present the data in section 1.3, and discuss the theoretical mechanism underlying the relationship between electoral crimes and performance in section 1.4. Section 1.5 discusses the empirical strategy and section 1.6 presents preliminary results. Section 1.7 concludes laying out the additional work which will be carried out to fully develop this paper.

1.2 Institutional Background

Brazilian Federal (TSE) and State Electoral Court (TRE) systems have existed intermittently since 1932 but only became institutionally relevant after the country's return to democracy in 1985. Since then, electoral courts have a fundamental role in guaranteeing free and fair elections. Their mandate is to enforce the Electoral Code of 1965 and subsequent legislation, particularly the law establishing conditions for ineligibility to public office (1990), the Law of Political Parties (1995), the Law of Elections (1997), and the Clean Slate Act of 2010.

Despite various attributions, I am mostly interested in the judicial review function of electoral courts. According to Brazilian Law, every individual running for office, at every level, has to submit proper documentation proving that they meet eligibility requirements for the office they are running; for instance, they should be 35 years of age or older to run for president or senator; executive-office holders, if running for any other elected office, must step down from current post six months before election day. Every electoral cycle, the higher-court TSE establishes a schedule for submission of all these documents, which are reviewed at lower-level courts by electoral judges who issue sentences authorizing every single candidacy in the country. This is the main institutional factor that allows for causal identification of electoral irregularities on performance.

An example helps illustrate this point. Municipal elections took place on October 2, 2016. The deadline for submitting all candidacy documents was August 15, 2016. Between August 15 and September 12, electoral courts review and authorize each candidacy for mayor or city councilor. The process starts at the electoral district in which the candidate is running for office, and their trial ruling comes out of the designated electoral judge for that district. These judges are part of the State Court system and, when appointed to the electoral bench, are on leave from their original tenured positions at the state system. They serve on two-year mandates, with one reappointment allowed, so they never oversee the same district for more than one electoral cycle. If either a candidate or someone else files an appeal to the trial ruling, the case is presented before a panel of three judges at the State Electoral Court TRE. There are seven appellate court justices in each state's TRE, serving up to four-year mandates, and they are immune to local politics. In any state, six of these judges are voted in by their fellow tenured judges at the State and Federal Court systems and the last member is appointed by the President of Brazil. If plaintiffs or defendants are unhappy with the appellate court decision, they can appeal their case with the Federal Court TSE, which serves as the third and final instance of judicial review for mayor and city councilor candidates.

The September 12 date is the key institutional feature that allows observing performance for politicians who violate electoral rules. It is the last day for entering candidate information onto electronic voting (EV) machines distributed at every single polling station in the country.¹ All candidates who have untried appeals by this date will have their information loaded, and thus can be voted for, in the EV machines on election day. I can observe the electoral performance of candidates who eventually are convicted of electoral violations and compare to candidates who

¹Fujiwara (2015) describes in detail this technology.

are cleared of accusations to partial out the local average treatment effect of committing electoral crimes.

Exogenous variation in convictions for electoral violation comes from the timing according to which trial and appeals sentences are issued for such candidates. Though their information (picture, name, voting number) is displayed in the EV machine, their votes are computed *sub judice* – their vote count is considered valid only when the TRE or TSE publish their final decision on their candidacy. Effectively, thus, the decisions at the appeals stage cannot affect electoral outcomes, since they are issued only after election day has passed, but they bear a strong relationship to the sentence handed out by the trial judge responsible by the electoral district in which candidates first submitted their documentation. Decisions at trial are mostly endogenous to electoral outcomes, but the use of appeals as instruments leaves out only their exogenous part allowing for causal identification.

The main limitation of this study is that I can only recover causal effects of electoral violations under restrictive special conditions pertaining to municipal elections in Brazil. At any other electoral race, both the trial and appeals stages are tried by the TRE and this might shape the way electoral judges issue rulings in response to the importance of the office whose candidacy. For instance, Senators are much more influential than city councilors and have a direct channel with the President, who is responsible for appointing one judge to each TRE. Second, there are a number of candidates who do not appeal their trial ruling and as such do not appear on the EV machine on election day. Thus, I cannot observe their ballot performance. Though it is likely that they are heterogeneous in many dimensions when compared to candidates who have outstanding appeals, such as their political experience, or they drive to hold elected office, it would still be interesting if I could estimate causal effects for the entire distribution of electoral irregularities instead of the narrow sample at hand. Still, the lack of evidence of the effect of electoral violations on ballot performance for large democracies speaks to the relevance of this project.

1.3 Data

The main data source for electoral performance is TSE’s repository of electoral data. TSE publishes electoral results, vote counts, candidate’s individual characteristics, and their candidacy’s situation on election day for all elections since 1994. I focus on the municipal elections after the introduction of the EV machine in 2002 for even performance measures across elections and municipalities. My sample is composed of 9,469 candidates for mayor or city councilor who appealed, or had third-parties appealing, their trial sentence on whether their candidacy meet all requirements. These candidates have been displayed in the EV device and could have been voted for on election day. Their candidacy remained pending after elections and they have only been allowed to take up office once a final ruling was issued.

Data on the reasons for rejecting candidacies are scraped from the TSE website, which makes all their court documents public. I have developed a web scraper that downloads the case number for each of the 9,469 candidacies and their information in order to recover judge characteristics

and reasons for rejecting a candidacy. For transparency purposes, all programs and data are freely available online.²

I have already collected all data on candidates and electoral performance from the TSE repository. Candidate individual characteristics are age, gender, political experience, education, marital status, and the reported amount of funds they have spent in their campaigns. There are, however, a few data management and transformation tasks remaining. I have coded political experience as a binary variable for when candidates report holding office at the time of elections, but I have yet to include as experience candidates who have run for office multiple times and, when running for city councilor, candidates who belong to the strongest coalition at the time of elections. Second, I need to collect further data on campaign expenditures; I have used their reported spending using the information in TSE dataset on each candidacy, which has many missing values, but the comprehensive data on funding belongs in the TSE dataset on campaign funds.

As far as court documents go, I have already written the web scrapers for obtaining case numbers and information, but have only downloaded case numbers. The remaining steps for completing the data collection task are downloading all case information in HTML format, one per case, and parsing HTML files into human-readable text. Though I am yet to do this for the whole sample, I have completed this entire process for a random sample of 1,000 candidates in the 2016 election as a trial run, so I am extremely familiar with the necessary steps for doing the remaining 9,469 iterations for the sample of candidates used in this paper.

1.4 Theory

Assuming a representative candidate A is running for office X . They will adopt various electoral tactics in order to gather more votes on election day. Any country’s electoral authorities lay out rules for office races, such as the amount of campaign spending per candidate, means of advertising, dates for which campaigning are authorized, age limits, etc. In democratic countries, these rules promote political competition and representation of various diverse demographics in the population. Thus, any politician running for office maximizes the following utility function (1):

$$P(\text{election}) = f(X, \varepsilon) \tag{1}$$

Their probability of election p is a function of a series of observable characteristics represented by a matrix X , as described above, which can benefit or hurt candidate’s electoral chances. To the best of their ability, the representative politician clearly wants to adopt beneficial tactics and avoid negative options. The error term ε captures any other non-observable or non-observed characteristic that simultaneously determine a candidate’s chance to hold office; political intelligence is an example of the former, the deals they make with supporters are the latter.

A fundamental factor in the error term is illegal action taken by politicians to win an election.

²I maintain a [github](#) repository storing all programs, data, and manuscripts used in this project. For the time being, this page is set to private and the latter link only provides access to the web scraper programs.

In democratic regimes, candidates will hide their wrongdoing because of the negative press and ammunition this provides to their political opponents. Illegal actions are not observed and thus are a puzzle for research. Moreover, if electoral authorities are serious about their mandate, any candidate found guilty of severe electoral wrongdoing would be removed from the race; therefore, under normal conditions, observing illegal action would not suffice for estimating effects of crime on election performance because most serious crimes would not be accounted for when looking at electoral outcomes. These practices should then be viewed as a function of the penalties they impose, as discussed above, and the return to each candidacy and how much they help people get elected. These relationships are represented by functions:

$$P(\text{election}) = f(X, c, \varepsilon) \quad (2)$$

$$c = f(r, p, \epsilon) \quad (3)$$

In equations (2) and (3), c is the illegal action taken. It is a function of electoral rewards r and electoral or legal punishment p , summarized in equation (2). The representative candidate A compares r and p before deciding whether to adopt the forbidden tactic or not. The institutional design of the municipal electoral process in Brazil makes it a perfect setting for estimating equation (2), as it allows the simultaneous observation of both crimes and electoral outcomes for every candidate. Since the only legal punishment available for electoral judges in Brazil are the rejection of a candidacy in one or more cycles, the only mechanism driving the choice for electoral violations is the different expectations each candidate holds with respect to the electoral payoff of wrongdoing.

The remaining problem for identifying the causal effect of electoral violations on performance is the relationship between X and c . Candidates are likely to choose an illegal action based on the type and quality of political competition they are facing, their own political skills, and other unobserved factors. That said, we can claim with a fair amount of confidence that $cov(X, c) \neq 0$ and $cov(c, \varepsilon) \neq 0$. In section 1.5, I explain how I address this problem and how I can recover the causal effects of crime for a subsample of municipal candidates in Brazil.

1.5 Empirical Strategy

In this paper, I adopt an instrumental variables approach that allows the causal identification of the effect of electoral irregularities on performance in Brazil. As described in section 1.2, I can only recover local average treatment effects, i.e. for the subsample of candidates who are charged with electoral crimes, by the ruling judge or third-parties, and have an outstanding appeal on their trial decision. Candidates who break electoral code but are not detected are not part of this study, neither are candidates who have chosen not to appeal the sentence rejecting their candidacy for elected office. For this sample of candidates with untried appeals on election day, I estimate the following regression model in three ways and three different measures of electoral performance:

$$y_i = \alpha + \rho \cdot c_i + X\beta + \sum \lambda_{i,k} + \varepsilon_i \quad (4)$$

The dependent variable has three forms: (i) the probability of election, taking up value one when either the mayor or city councilor has had enough votes for election in their race; (ii) the vote distance to elected candidate(s), which is the percentage point margin between candidate i vote share and that of the single elected candidate (when running for mayor) or last elected candidate (when running for city councilor); (iii) the total vote share of candidate i received in their race. Using outcome one, I can measure the impact of the electoral violation on the most important outcome of any political campaign, i.e. being elected; outcome two tells us about the benefit for committing crimes when candidates are trying to secure an electoral lead or narrow in on races in which they are trailing another candidate; the last outcome serves as a measure of the overall impact on candidate popularity if they are found guilty by the electoral court system.

The main independent variable is the binary indicator for convictions at the electoral court system c for candidate i . If a candidacy has been rejected by the trial judge responsible for that electoral district, c becomes one. I use convictions at the trial level for OLS regressions benchmarking the effect of electoral infractions on ballot performance; in reduced-form regressions, I replace convictions at trial for convictions on appeal – which becomes one when the candidate has seen an unfavorable ruling at higher instances of the electoral court system. The reduced-form regressions hint at any potential correlation between instruments and outcomes beyond the channel via instrumented variables. I lastly estimate model (4) using two-stage least squares (2SLS) regressions, in which I instrument the endogenous regressor conviction at trial for the exogenous regressor conviction on appeal. Since I am looking at appellate court decisions issued after election day, the exclusion restriction is straightforward as the instrument is measured only after outcomes have been observed. Any effect of appellate decisions only influences electoral performance via their relationship with the convictions at trial. In such case, equation (4) and first-stage are:

$$y_i = \alpha + \rho \cdot \hat{c}_{i,\text{trial}} + X\beta + \sum \lambda_{i,k} + \varepsilon_i \quad (5)$$

$$c_{i,\text{trial}} = \alpha + \rho \cdot c_{i,\text{appeals}} + X\beta + \sum \lambda_{i,k} + \varepsilon_i \quad (6)$$

I control for additional characteristics using vector X of candidate information on their age, gender, marital and education status, political experience, and campaign spending. For the complete version of this paper, I also include a set of fixed-effects to capture any additional unobservable heterogeneity coming from year, election, and municipal conditions shared by all candidates. Any remaining stochastic effect is contained in the error term ε .

In addition to running these regression equations, I offer various other robustness checks to confirm instrument strength and to do away with potential spurious relationship concerns. In the following section, I present first-stage results and the Hausman statistic to support my instrument choice. In the final version, I also include falsification tests using a sample of candidates who should not experience any electoral effect from judicial convictions on their candidacies.

1.6 Preliminary Analysis

As a preview of the complete paper, I present in this section some preliminary results establishing the relationship between electoral violations and electoral performance. I have collected and used all electoral outcomes, politician’s individual characteristics, and candidacy situation data for estimating these preliminary regressions. Here I focus on the the local average treatment effects (LATE) of crimes regardless of the type of infraction for which candidates were found guilty or not guilty. Table 1 reports descriptive statistics about the sample of candidates.

Table 1: Descriptive Statistics

	N	Mean	St. Dev.	Min	Max
Age	9,469	46.34	11.02	17	86
Male	9,469	.793	.405	0	1
Political Experience	9,469	.091	.287	0	1
Campaign Expenditures	9,469	144,722	456,532	0	20,000,000
Convicted at Trial	9,469	.641	.480	0	1
Convicted on Appeal	9,469	.537	.499	0	1
Probability of Election	9,441	.191	.393	0	1
Vote Distance to Elected Candidates (in p.p.)	9,441	-4.09	9.55	-92.82	12.83
Total Vote Share (in p.p.)	9,441	10.131	17.983	0	100

Certain facts jump to mind in the sample used for this project. The average politician included in this study is 46 years-old and male (79 percent of the sample). About 10 percent of them were office-holders at the time of election, and spent R\$ 144,722, on average, on the campaign trail. Categorical variables are omitted from the table but the most frequent education level of politicians is high school (30 percent) and 62.5 percent of them report being married at the time of elections. Sixty-four percent of candidates have been convicted at trial, meaning their candidacies have not been authorized, while the remaining 36 percent have seen their opponents or the Office of Electoral Prosecutions file an appeal against their candidacy with TRE. Approximately 53 percent have had a final ruling against their candidacy issued by the panel of appellate judges.

Table 2: Percent of Candidacy Trial Rulings Reversed on Appeal

<i>Trial</i>	<i>Appeals</i>		Percent Reversed
	Affirmed	Reversed	
Not Convicted	3379	22	0.6
Convicted	5059	1009	16.6

When I break down reversals by type of decision at trial, one notices favorable candidacy rulings are rarely reversed (0.6 percent); though the reversal of unfavorable rulings is more frequent (16.6 percent), they are still a small number when compared to affirmed trial sentences (89.1 percent). This is the first anecdotal fact in support of instrument strength, but I present stronger evidence in table 3, where I tabulate the first-stage regressions of convictions at trial and on appeal.

Table 3: First Stage Regressions of Convictions at Trial and on Appeal

	Outcome: Convicted on Trial	
	First-Stage	First-Stage
	(1)	(2)
Convicted on Appeal	.766*** (.006)	.757*** (.007)
Individual Controls	-	Yes
Observations	9,469	9,469
R ²	.633	.649
Adjusted R ²	.633	.648
Residual Std. Error	.290	.285
F-Statistic	16,356*** (df = 1; 9467)	1,092*** (df = 16; 9452)

Note: First-Stage regressions here report the correlation between being convicted at trial and being convicted on appeal for all candidates who have had their candidacy challenged under charges of electoral irregularities. I present results including and excluding individual politician characteristics and use robust standard errors. *p<0.1; **p<0.05; ***p<0.01.

Not only the relationship between rulings at both stages are significant at 1 percent, but the magnitude of the parameters is large. Being convicted by a trial judge increases a politician's probability of an unfavorable ruling on appeal by approximately 76 percentage points, regardless of including individual control variables in the first-stage. In the presence of controls, the F -statistic is significant at 1 percent and substantially larger ($F = 1,092$) than industry standards at $F = 10$. Adjusted-R² is .648 and also lends support to the use of convictions on appeal as instruments for convictions at trial.

Table 4: Hausman Tests for Instrument Strength

Outcome	Hausman Statistic	p -value
Probability of Election	160.84	1.470e-36
Vote Distance to Elected Candidates	0.00	.961
Total Vote Share	292.44	1.360e-64

In table 4, I perform another test of instrument strength using the Hausman statistic calculated from instrumental variables regressions (including covariates) for all three outcomes. In models one and three, we can safely reject the hypothesis that OLS and IV models are asymptotically equal (both are significant at 1 percent). For model two, I fail to reject the equality hypothesis, suggesting that the IV is not substantially different from OLS. Since the vote distance to elected candidates is substantially different if we are under majoritarian (mayor) or proportional (city council) elections, i.e. it is smaller when votes are spread out across many more candidates, this result is entirely plausible when estimating models with a single sample for both types of candidates. In the complete paper, I break down the sample for outcome two and show that the instrument is

strong in each split sample case.

Tables 5-7 represent the bulk of the preliminary results in this proposal. Table 5 reports the effect of electoral infractions on the probability of election of each candidate. For mayors, this variable turns on when the candidate was the most voted in their election. For city councilors, this variable turns on when the candidate has received enough votes to finish the election within the number of vacancies in their municipality. For instance, if municipality A has 12 seats in its city council, a candidate who received the same number, or more, votes than the 12th placed candidate has outcome value one.³

Table 5: The Effect of Electoral Crimes on the Probability of Election

	Outcome: Probability of Election					
	OLS (1)	OLS (2)	Reduced-form (3)	Reduced-form (4)	IV (5)	IV (6)
Convicted at Trial	-.208*** (.009)	-.173*** (.009)			-.272*** (.011)	-.288*** (.010)
Convicted on Appeal			-.209*** (.008)	-.182*** (.008)		
Individual Controls	-	Yes	-	Yes	-	Yes
Observations	9,441	9,441	9,441	9,441	9,441	9,441
R ²	.065	.123	.070	.133	.059	.055
Adjusted R ²	.065	.122	.070	.131	.058	.055
Residual Std. Error	.380	.368	.379	.366	.381	.382
F-Statistic	652.4*** (df = 1; 9439)	82.9*** (df = 16; 9424)	715.4*** (df = 1; 9439)	90.0*** (df = 16; 9424)	-	-

Note: The regressions here estimate the relationship between being convicted at trial or on appeal, for all candidates who have had their candidacy challenged under charges of electoral irregularities, on their probability of election. Columns 1, 3, and 5 display models not including individual candidate characteristics; columns 2, 4, and 6 include age, gender, marital status, education level, political experience, and the amount spent in their campaign. I estimate robust standard errors for all specifications in this table. *p<0.1; **p<0.05; ***p<0.01.

First, I draw attention to the effect of convictions on the probability of election in columns 1-4. Being convicted for an electoral crime reduces the probability a candidate is elected by 20.8 and 20.9 percentage points in the absence of control variables and 17.3 and 18.2 percentage points in their presence. These are the OLS and reduced-form regressions as described in section 1.5. The conviction parameters are significant at 1 percent and very close in magnitude. In fact, the alignment between OLS and reduced-form estimates, including their adjusted-R² and *F*-statistics, is another source of support for the claim of independence across the instrument and the error term in the IV regression.

In columns 5-6, I report the IV estimates of electoral violations on probability of election. Being convicted for an electoral crime has a negative impact on election probability of 28.8 percentage

³City council elections are not necessarily decided in such manner; TSE tallies up all votes in a single election and divides them up by the number of seats available. All candidates who have more votes than this mark are automatically elected to office; remaining seats go to the coalitions who have rounded up more votes. In most cases, however, votes are usually spread out across many candidates and coalitions, so being voted in as the last candidate within the number of available seats does guarantee their election and supports their coalitions to get further seats.

points in the model including covariates. In line with corruption studies (Ferraz and Finan, 2011; Chong et al., 2013), there is an electoral penalty for candidates who engage in illegal activities. For the complete version of this paper, I will include the fixed-effects discussed in section 1.5, i.e. year, election, and municipal indicators, and additional judge covariates.

In table 6, I look at the percentage point vote distance from the last elected candidate as a result from being convicted for committing electoral violations. The negative parameter estimates should be interpreted as the extensive margin effect of electoral irregularity. The smaller the value, the less important was the crime as a factor for candidate’s electoral prospects.

Table 6: The Effect of Electoral Crimes on the Vote Distance to Elected Candidates

	Outcome: Vote Distance to Elected Candidates (in p.p.)					
	OLS (1)	OLS (2)	Reduced-form (3)	Reduced-form (4)	IV (5)	IV (6)
Convicted at Trial	-.308 (.199)	-.736*** (.206)			-.519** (.254)	-.315 (.251)
Convicted on Appeal			-.399** (.196)	-.751*** (.200)		
Individual Controls	-	Yes	-	Yes	-	Yes
Observations	9,441	9,441	9,441	9,441	9,441	9,441
R ²	0.000	.028	0.000	.028	0.000	0.000
Adjusted R ²	0.000	.026	0.000	.026	0.000	0.000
Residual Std. Error	9.550	9.426	9.549	9.425	9.551	9.550
F-Statistic	2.3 (df = 1; 9439)	16.7*** (df = 16; 9424)	4.1** (df = 1; 9439)	16.9*** (df = 16; 9424)	-	-

Note: The regressions here estimate the relationship between being convicted at trial or on appeal, for all candidates who have had their candidacy challenged under charges of electoral irregularities, on their vote distance to elected candidates. Columns 1, 3, and 5 display models not including individual candidate characteristics; columns 2, 4, and 6 include age, gender, marital status, education level, political experience, and the amount spent in their campaign. I estimate robust standard errors for all specifications in this table. *p<0.1; **p<0.05; ***p<0.01

The results in table 6 are much less robust. There is a much larger disparity across the OLS and the reduced-form estimations, which are unlike in various dimensions: the magnitude of conviction parameters is much larger in the absence of covariates (columns pairs (1,3) and (2,4)); *F*-statistics are much smaller; adjusted-R² do not really pick up a lot of *y* variation. Compared to the preferred specification in column 6 of table 5, column 6 here displays an insignificant parameter estimate for the conviction variable.

Despite the underwhelming results of table 6, there are two interesting takeaways that I explore in this proposal and which will be expanded in the final dissertation project. First, the negative effect of electoral code infraction, where significant, is extremely small (0.399-0.751 percentage points). On the one hand, this could mean that there are other, more important factors that influence someone’s electoral prospects. For instance, it could be that opponents are adopting similar strategies thus voters perceive all candidates the same way, regardless of their criminal record. On the other hand, this could be driven by the fact that I disregard the effect of individual crimes and focus on the aggregated effect of breaking electoral rules. This puzzle motivates the heterogeneous

effects analysis added to the complete paper version. The second reading of this result is that I should not be estimating the effect on vote distance on the joint sample of mayor and city councilor candidates, being that majoritarian and proportional elections are very different in nature. The percentage of votes of city councilors is much smaller not only as a proportional of the total vote but also with respect to other candidates. In either case, however, I can explore different explanations as to why I see an insignificant effect in table 6.

Table 7: The Effect of Electoral Crimes on the Total Vote Share

	Outcome: Total Vote Share (in p.p.)					
	OLS (1)	OLS (2)	Reduced-form (3)	Reduced-form (4)	IV (5)	IV (6)
Convicted at Trial	-12.935*** (.418)	-10.629*** (.396)			-16.795*** (.478)	-17.865*** (.479)
Convicted on Appeal			-12.924*** (.364)	-11.117*** (.339)		
Individual Controls	-	Yes	-	Yes	-	Yes
Observations	9,441	9,441	9,441	9,441	9,441	9,441
R ²	.119	.237	.128	.253	.109	.102
Adjusted R ²	.119	.236	.128	.252	.108	.102
Residual Std. Error	16.879	15.721	16.790	15.558	16.980	17.044
F-Statistic	1,277*** (df = 1; 9439)	183*** (df = 16; 9424)	1,390*** (df = 1; 9439)	199*** (df = 16; 9424)	-	-

Note: The regressions here estimate the relationship between being convicted at trial or on appeal, for all candidates who have had their candidacy challenged under charges of electoral irregularities, on their total vote share. Columns 1, 3, and 5 display models not including individual candidate characteristics; columns 2, 4, and 6 include age, gender, marital status, education level, political experience, and the amount spent in their campaign. I estimate robust standard errors for all specifications in this table. *p<0.1; **p<0.05; ***p<0.01

This preliminary analysis ends with table 7, where I report the effect of convictions on the total vote share experienced by each candidates in their electoral race. In a similar fashion to table 5, we see similar magnitudes of parameters across OLS and reduced-form specifications; these parameters also remain statistically significant at 1 percent across all columns. Being convicted of a electoral crime reduces their total vote share by 10.6 and 11.1 percentage points when including candidate characteristics in the regressions.

The IV parameter is even larger. Candidates who do not meet all electoral requirements when running for municipal office see their total vote share reduce by 17.9 percentage points, according to the estimate in column 6. This result is consistent with the punishment effect displayed in table 5 and support the overall negative effect of convictions on performance.

1.7 Further Development

This project aims at uncovering the effect of illegal electoral actions on performance. Supplemental to existing literature looking at severe electoral fraud and electoral malfeasance in non or partially democratic regimes, I provide evidence on less known, less understood electoral practices that can

also shape the results of elections. In addition, I measure such effect in Brazil, one of the largest and highest quality electoral democracies in world at the time of the study. Further contributions of this paper are the use of court documents as data and the institutional design of electoral judicial review in Brazil for causal identification.

Though this is a partial version of the complete paper, I believe I have provided sufficient evidence that this is a promising project. I find substantial and significant negative (preliminary) effects of electoral violation on ballot performance. Being convicted of an electoral crime reduces the probability of election for mayor and city councilor candidates in Brazil by 28.8 percentage points. Beyond the initial analysis, I have laid out the remaining necessary steps for the completion of this project, i.e. downloading the judicial sentences for each candidacy in the sample, extracting judge information, providing additional tests of instrument strength, and offering heterogeneous treatment effects by electoral crime. In sum, this makes for a strong dissertation chapter.

This research question is relevant for multiple policy discussions. I offer additional evidence claiming a negative relationship between crime and electoral performance. Knowing that voters punish bad behavior, skilled politicians and policymakers can increase monitoring, detection, and prosecution of electoral crimes as a means of weeding out low-quality office-seeking candidates. By looking at heterogeneous effects of electoral infractions, I also produce evidence for proportional punishment following each crime's severity. High electoral punishment infractions can be matched by equivalent legal punishment at other instances of the judicial system in Brazil. A final implication of this project is, indeed, an honest discussion on the existence of electoral oversight authorities in the first place. While on the one hand they might prevent low-quality candidates from running, and eventually, being elected, they might simultaneously create barriers to entry that are detrimental to political competition and to democratic progress.

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