

# Title

Nicholas R. Jenkins\*  
Department of Political Science  
University of California, Riverside  
nicholas.jenkins@email.ucr.edu

February 11, 2020

---

\*Acknowledgements

# 1 Introduction

On national television during the Democratic debate on February 6, 2016, Bernie Sanders stood on stage and enthusiastically announced to the audience, “I am very proud to be the only candidate up here who does not have a super PAC, who’s not raising huge sums of money from Wall Street and special interests.” Indeed, during the campaign, Sanders publicly voiced his opposition to PAC contributions and refused to accept their donations while his Democratic opponent, Hillary Clinton, accepted over \$1.7 million from political action committees (PACs) for which she faced sharp criticism from voters on the left (**harper’2020’2019**; **ye’hee’lee’sanderss’2016**; **seitz-wald’promise’2015**; **bump’why’2016**).

This trend in rejecting PAC contributions has continued into the 2018 Congressional races and so far in the 2020 presidential races. For example, **evers-hillstrom’democrats’2018** reported in OpenSecrets News that 52 members of the 116 Congress, including 35 non-incumbents, announced that they would not accept money from PACs during their campaigns. Similarly, **harper’2020’2019** wrote an article in ABC News claiming, “The 2020 Democratic presidential candidates are forgoing corporate money in an effort to capture small donors.” In fact, as of April of 2019, all 14 of the 2020 presidential Democratic candidates have declined to accept corporate PAC contributions (although only 3 have declined to accept contributions from all PACs).

The push for campaign donations in the form of small-dollar donations, rather than PAC contributions, is indicative of a demand from voters to bring the era of “captured” politicians to an end. Indeed, the ideal candidate for most voters would likely be one that manages to raise money from a large number of individual donors and rejects donations from special interests and PAC to prevent themselves from becoming beholden to these donors rather than their constituents. In fact, **bowler’campaign’2016** show that the sources of campaign funding significantly influence voter attitudes towards corruption in politics.

Despite this shift away from PAC donations, however, is the claim that these strategies galvanize individuals to donate true? That is, does publicly rejecting PAC contributions mo-

bilize voters to donate to political campaigns? Additionally, and perhaps more importantly, does pledging to reject PAC money lead to increases in contributions from alternative sources like political parties, ideological interest groups, or wealthy individuals? Finally, does this strategy yield any benefits for election outcomes?

In this article, I use Federal Election Commission data on campaign donations for all Democratic candidates in the 2018 Congressional House Elections to examine these questions. I show that rejecting PAC donations does encourage more individual contributions but it is also associated with an increase in contributions from other elected officials, and individuals associated with ideological and business organizations.

This study makes two significant contributions. First, to my knowledge, it is the first to examine the effects of pledging to reject PAC contributions on the distribution of a candidate's campaign contributions. Campaign finance is an omnipresent concern for the vast majority of voters and political scientists and refusing PAC donations presents a curious strategy with unknown consequences. Perhaps such a strategy is born out of honest intentions, perhaps it is not. Either way, the systematic examination offered in this article provides valuable insights on the effects of this growing strategy.

Second, this study is the first to test the implicit causal claim that voters want candidates who are beholden to the people and not “bought-out” by special interests and corporate lobbyists. The growing trend of candidates refusing to accept campaign contributions from PACs assumes this fact to be true and that by publicizing their opposition to PACs, they will attract more political support and small-dollar donations from individuals.

## 2 Perceptions about Money in Politics

Americans are remarkably cynical about Congress, and this cynicism is increasing. According to a survey conducted by the Pew Research Center, as of February of 2014, only twenty-four percent of the public trust Congress (**pew·research·center·public·2014**) and public trust

in Congress has been declining since 1950 (**dalton'social'2005**). Among the sources of distrust, researchers have argued that perceptions of corruption and money in politics play a crucial role (**persily'perceptions'2004**; **vanheerde-hudson'parties'2013**).

Of general interest to scholars is explaining contribution among both individuals and PACs. For example, scholars have examined how of campaign finance legislation and Federal Election Commission (FEC) regulations affect the behavior of large donors (**magleby'money'2010**; **raja'small'2008**) and why donors donate, to what extent their donations influence policy, and what their donation strategies are (**francia'financiers'2003**). Most relevant to this study, **alexander'good'2005** examined the effects of campaign funding sources on candidate vote share and finds that PAC and in-state donations are positively correlated with a candidate's vote share while self-financing has a negative relationship. Although researchers have typically focused their attention on large donors, since their more obvious potential to influence political outcomes, (**barber'ideologically'2017**; **francia'financiers'2003**), studies of small donors also exist (**johnson'individual'2010**; **lipsitz'filled'2011**).

In one such study of small-dollar donations in Congressional elections, (**culberston'small'2019**) find that small-dollar contributions are distributed rather evenly across candidates, including non-incumbents. Similarly, they find that small-dollar donations are more numerous in competitive elections and among more ideologically extreme candidates. (**culberston'small'2019**) conclude by arguing that the participation of small-dollar donors “may help with democratization of the electoral process by expanding participation in campaign financing, with money flowing more equally to all candidate types.”

More recently, researchers have begun investigating how individuals perceive money in politics. For example, **bowler'campaign'2016** conduct a survey experiment and find that beliefs about donations are dependent on partisanship and information about the source of the donations. In the end, they conclude that attitudes about campaign contributions are informed by much more than just perceptions of corruption. This suggests that the source of the contributions does matter to voters and that messages about campaign finance may

alter their perception of candidates. Indeed, by announcing opposition to PAC donations, candidates may provide an information signal to voters that PAC donations produce adverse effects and that pursuing financing through alternative means is a more “ethical” strategy.

That American’s lack political knowledge is perhaps the most well established finding in political science (**page’rational’1992; carpini’what’1997**). Hence, there is little reason to suspect that voters are knowledgeable about a particular candidate’s campaign contribution sources unless they are explicitly discussed. However, voters typically think that contributions to candidates from corporations are more corrupt than contributions from individuals (**bowler’campaign’2016**). Moreover, the majority of Americans are dissatisfied with campaign practices in general, (**mayer’public’2001; persily’perceptions’2004**). Since trust in political officials has been declined over the last several decades, candidates should be able to use this to their advantage on the campaign trail. Specifically, pledging to reject corporate PAC donations might be an attempt to signal their trustworthiness to voters.

Such signaling effects through the media have been well-documented (**iyengar’news’1989**) and voters see small-dollar donations from individuals as more honest (**bowler’campaign’2016**). Indeed, Ella **nilsen’race’2019** reported that Elizabeth Warren “swore off PAC money to make a statement” in a story for Vox.com. In an email to her supporters Warren explained, “For every time you see a presidential candidate talking with voters at a town hall, rally, or local diner, those same candidates are spending three or four or five times as long with wealthy donors — on the phone, or in conference rooms at hedge fund offices, or at fancy receptions and intimate dinners — all behind closed doors” (**nilsen’race’2019**). The 2020 Democratic candidates are almost in competition to distance themselves as far as they can from PACs and special interests and there is little reason to suspect that the 2018 Democratic Congressional candidates would view this issue any differently. This reasoning motivates my first hypothesis:

**Hypothesis 1** *Candidates that pledge to reject corporate PAC contributions will receive an increase in individual small-dollar donations.*

Campaigns are still extraordinarily expensive, however, and rejecting contributions from PACs means that the money will need to come from somewhere else. In general PACs tend to prioritize their contributions for incumbents rather than challengers (**brunell'relationship'2005**) and that they often wait to support challengers until they show success in raising funds from other sources (**biersack'seeds'1993**). Individual donors, on the other hand, tend to be wealthy (**brown'serious'1995**) and target candidates that are ideologically similar (**bonica'mapping'2014**). Candidates, however, can also receive support from political parties and other candidates or elected officials. Contributions from these sources may not seem as “corrupt” thus provided candidates that reject PAC money with a fall back option if individual donors do not reach expectations. Moreover, political parties are much more vested in the success of their party’s candidates and thus are less likely to risk their candidates not being able to raise enough money. This motivates my second hypothesis:

**Hypothesis 2** *Candidates that reject corporate PAC money will receive more contributions from partisan sources.*

Perhaps more concerning, is the possibility that corporate PACs will decided to exert their influence on candidates through individual donations. **francia'financiers'2003** identify four categories of of big donors: those that seek material gain, those with ideological agendas, those motivated by the social considerations, and those with irregular behavior. Although it is difficult to access the motivations of these donors, it is at least possible that those motivated by material gain are more closely associated with corporate interests. Indeed, the Center for Responsive Politics documents donations made by individuals made in connection with larger organizations and state that, “In some cases, a cluster of contributions from the same organization may indicate a concerted effort by that organization to ”bundle” contributions to the candidate.” This motivates a final hypothesis:

**Hypothesis 3** *Candidates that reject corporate PAC money will receive more contributions from individuals associated with business and ideological interests.*

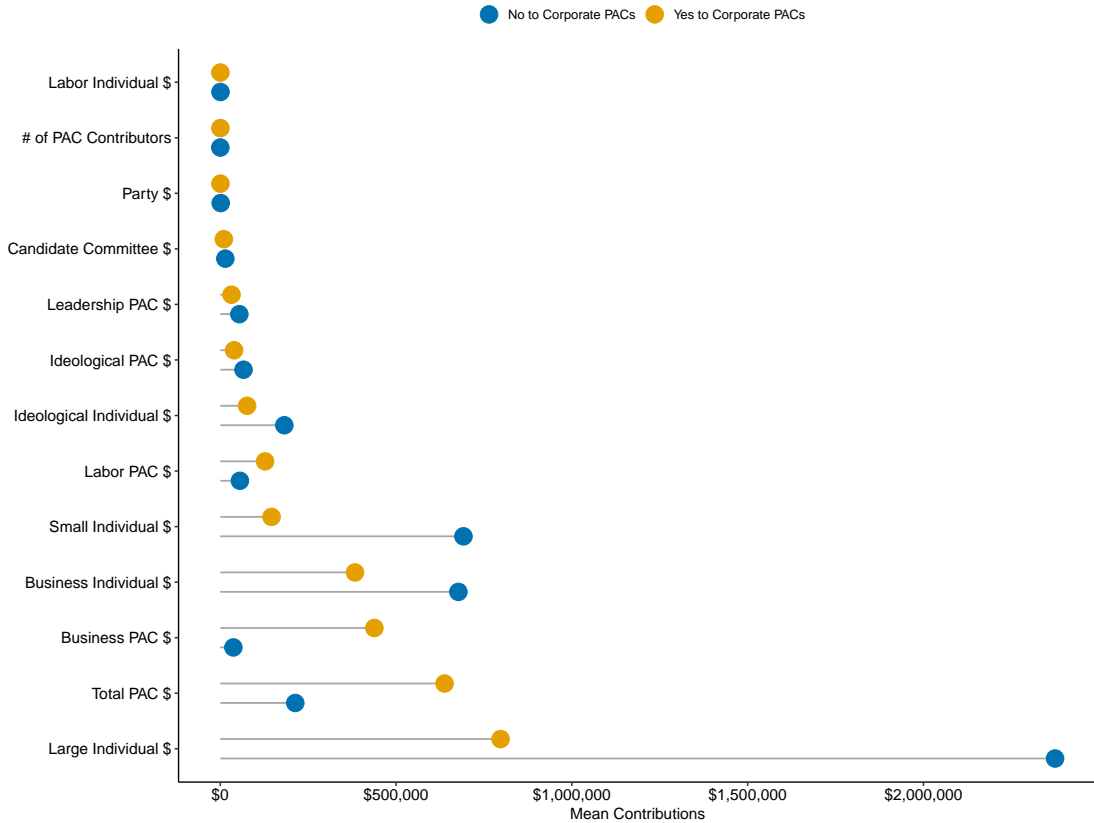
In summary, pledging to reject corporate PAC contributions likely signals to voters that a candidate is not “bought-out” by special interests and is thus more trustworthy. As a result of this signaling, the candidate should receive an increase in individual small-dollar donations. Rejecting such a large source of funding is also introduces an electoral risk, one that political parties, who are primarily interested in the success of their candidates, may not be willing to accept. Thus, candidates who reject PAC money will receive an increase in contributions from partisan organizations like parties themselves or incumbents. Finally, since the opportunity cost of making political contributions is so high (**grier’committee’1991**), businesses are unlikely to cease their involvement in campaigns because a member will not accept money from their associated PAC. Instead, they can still exert their influence, albeit more discreetly, through individual donations. Thus, candidates that pledge to reject corporate PAC contributions will receive an increase in contributions from individuals associated with corporations.

### 3 Data

To test these hypotheses, I use campaign finance data on Congressional candidates in the 2018 midterm election provided by The Center for Responsive Politics at [Opensecrets.org](https://www.opensecrets.org). Because data on which candidates did and did not pledge to reject corporate PAC donations is incomplete, I am only use a sample of 2018 candidates. Next, to facilitate better comparison groups, I restrict the sample to only Democrats who won their election. Since the composition of campaign contributors differs between parties only including Democrats helps to remove some of this heterogeneity. Second, it is necessarily the case that candidates that did not win their elections differ, likely systematically, from those that did win and these differences could be on factors that also determine campaign contributions. By excluding losers from the sample, these differences are effectively controlled for. Not do these restrictions help with comparisons, but of the 539 candidates with data on pledges there are only 2 Republicans

that took the pledge to reject corporate PAC contributions. Thus, the final sample contains 167 Democratic candidates that won election in their district. Although this produces nice comparison groups, my ability to make causal inferences is still limited. In fact, I do not claim to have identified causal effects. See Section 6 for a discussion on this point.

In addition to campaign finance data, I also use vote share data for each candidate from the MIT Election Data + Science Lab. Finally, I get Congressional district demographic data from the U.S. Census Bureau.



**Figure 1: Contributions to Candidates by Source and Whether or not they Reject PAC Contributions.** This figure shows that while candidates who pledge to reject corporate PAC contributions receive fewer contributions from business PACs, they receive more contributions from leadership PACs, ideological PACs, individuals affiliated with ideological interest groups, small-dollar donations, individuals affiliated with business interest groups, and large-dollar donations.

Figure 1 displays the mean contributions across candidates by whether or not they pledge to reject corporate PAC contributions. We can see that candidates who pledge to reject



corporate PAC contributions receive almost zero contributions from business PACs and they also receive much fewer contributions from PACs in total. However, these candidates also receive more contributions from leadership PACs, ideological PACs, individuals affiliated with ideological interest groups, small-dollar donations, individuals affiliated with business interest groups, and large-dollar donations.

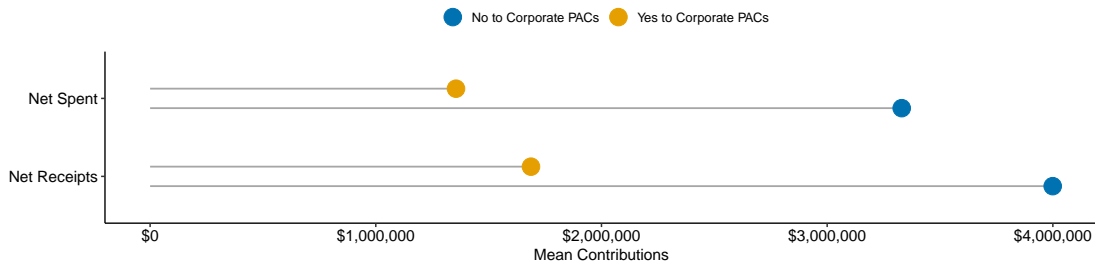


Figure 2: **Mean Candidate Spending and Receipts by Whether or not they Reject PAC Contributions.** This figure shows that candidates who pledge to reject corporate PAC contributions spend about 2.5 times more than their PAC accepting counterparts and receive about 2.25 times more total contributions.

Figure 2 displays the mean level of campaign spending and receipts by whether or not the candidate pledges to reject corporate PAC contributions.

## 4 Model Definition

The goal of any statistical model is to describe the data generating process of the outcome under consideration. In this study, the primary interest is in modeling the generative process of campaign contributions from PACs, political party organizations, and individuals. Campaign contributions are composed on positive real values. Thus, campaign contributions likely arise from a gamma process since the gamma distribution describes a data generating process for a random variable with only positive real number outcomes  $y \in \mathbb{R}^+$ .

However, because some candidates pledge to reject contributions from PACs, contribution values of zero are also possible. A zero could result because they accept zero contributions from a group, but a group could also decide not to contribute to a candidate because they

pledged to reject PAC contributions. For example, suppose a new candidate takes to pledge to reject PAC contributions because they feel that doing so is morally good. Further suppose, however, that their political party's leadership wanted the candidate to announce their opposition to PACs after they had some time to evaluate this candidate's probability of winning the election and estimate their fund raising needs. Because the candidate did not wait for the party's approval, the party decides that this candidate has little chance of success given the timing of their announcement and therefore chooses not to give this candidate funds from the party committee. In this situation, the candidate would receive zero contributions from their party because they pledge to reject PAC contributions. This dual process is summarized in Figure 4. Candidates decided either to reject PACs with probability of  $\pi$  or accept PACs with probability  $(1 - \pi)$ . If the reject PACs, we will observe a zero. If they accept PACs, we may still observe a zero if the candidate fails to attract donations from the group in question.

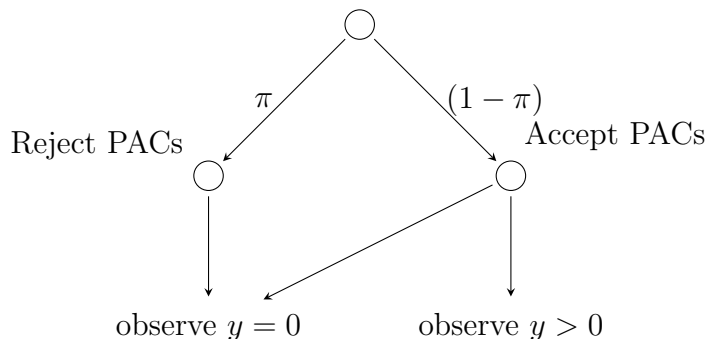


Figure 3: **Zero Generation Process.** Candidates can receive zero contributions through two different process. First, they may receive zero contributions because they pledge to reject PAC contributions. Second, they may receive zero contributions because they simply do not receive contributions from a particular group.

Figure 4 shows the percentage of zeros in the data. Of the 167 candidates in the data, 84 percent did not receive contributions from party committees, 68 percent did not receive contributions from individuals affiliated with labor organizations, 12 percent did not receive contributions from candidate committees, 10 percent did not receive contributions from leadership PACs, 5 percent did not receive contributions from business PACs, 4 percent did

not receive contributions from individuals affiliated with ideological organizations, 2 percent did not receive contributions from labor PACs, and 1 percent did not receive contributions from ideological PACs and PACs in general.

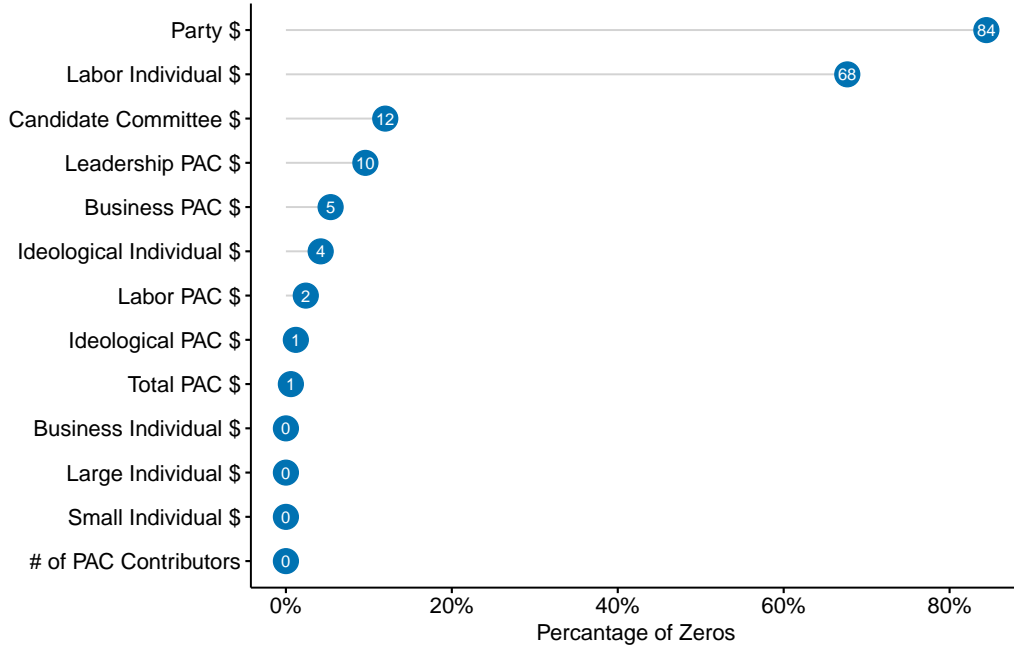


Figure 4: **Percentage of Zero Contributions in the Data by Source of Contribution.**

Because the gamma distribution is not defined for zero values, I use a zero-augmented gamma likelihood function for models of contributions that contain zero values mentioned above. The zero-augmented gamma likelihood is a mixture of a bernoulli and gamma process. Thus, the probability density  $f(y)$  for contributions can be defined as:

$$f(y) = \begin{cases} \pi & \text{if } y = 0 \\ (1 - \pi)\text{Gamma}(k, \theta) & \text{if } y > 0 \end{cases} \quad (1)$$

where  $\pi$  is the probability of receiving zero contributions from a given group ( $y = 0$ ), and  $k$  and  $\theta$  define a gamma distribution with mean  $k\theta^{-1}$  and rate  $\theta$ . This likelihood can be easily summarized as  $\text{ZGamma}(\pi, \mu, \theta)$  where  $\pi$  indicates the probability of a zero, and non-zero outcomes are described by a mean  $\mu$  and rate  $\theta$ . For more information on the mathematical

details, see **mccullagn'generalized'1989**. An alternative solution to model this data would be to model cases of zero contributions separately from non-zero cases, but this approach would sacrifice information about the relationship between these cases. By leaving zero cases in the dataset, the model can allow the probability of observing a zero inform the coefficient estimates in the gamma likelihood and vice versa. This way, the model can develop a more accurate picture of the data generating process.

Although this pooling of information leads to more informative estimates, this can only be the case if there is enough zero cases to provide useful information. As a result, it is unlikely that the model will learn anything important for the models where the occurrence of zeros is between 5 and 1 percent, even 12 percent is doubtful. For these models, the estimated probability of observing a zero will almost certainly be determined by the priors simply because there is not enough data. By using weakly-informative priors we can extract some useful information, but ultimately the model will benefit very little from retaining the zeros in the data. In theses cases, the estimated effect of rejecting PACs on contributions will converge to the gamma likelihood estimates.

## 4.1 Modeling Campaign Contributions

Campaign contributions are divided into three groups. Contributions from PACs, contributions from political party organizations, and contributions from individuals. In the PAC group, I examine the pattern of contributions made to candidates from PACs that primarily represent business, labor, and ideological interests. In the political party group, I examine contributions to candidates from leadership PACs, political party committees, and candidate committees. Leadership PACs are PACs created by incumbents to raise money to cover expenditures that cannot be paid by campaign committees or congressional offices. Additionally, leadership PAC funds can be used to fund other candidates campaigns as is often the case (**lazer'leadership'2015**). Along with leadership PACs, political parties also have the ability to contribute to a candidate's campaign. Finally, a member can use their candi-

date committee to contribute to another member’s campaign. This is often do to support candidates of one’s party who are challenging incumbents or are at risk of being defeated (**lazer’candidate’2015**).

For the final group, individual contributions, I examine small-dollar contributions (< \$200), large-dollar contributions (> \$200), and individual contributions associated with ideological, labor and business organizations. Since the Federal Election Commission requires that all contributions above \$200 must be itemized and list the donor’s employer and occupation information, this information can be used to approximate a donors economic interest. This is, of course, not a perfect measurement but it will provide insight on the types of individual donations that a candidate receives.

The model structure used to estimate campaign contributions for outcomes that contain zeros is given by:

$$\begin{aligned}
 y_i &\sim \text{ZGamma}(\pi_i, \mu_i, \theta_i) \\
 \log \frac{\pi_i}{1 - \pi_i} &= \alpha_\pi + \beta_{1\pi}(\text{No PACs})_i + \beta_{2\pi}(\text{New Member})_i \\
 \mu_i &= \alpha_\mu + \beta_{1\mu}(\text{No PACs})_i + \mathbf{X}\boldsymbol{\beta}_\mu
 \end{aligned}$$

where  $i$  indexes individuals,  $\mathbf{X}$  is a matrix of control variables, and  $\boldsymbol{\beta}_\mu$  is the corresponding coefficient vector. In these models, the probability of receiving contributions is modeled as a function of both rejecting PACs (0 - 1 indicator) and being a new member (0 - 1 indicator). Previous research indicates that PACs almost exclusively contribute to incumbents (**brunell’relationship’2005**) and that they often wait to support challengers until they show success in raising funds from other sources (**biersack’s seeds’1993**).

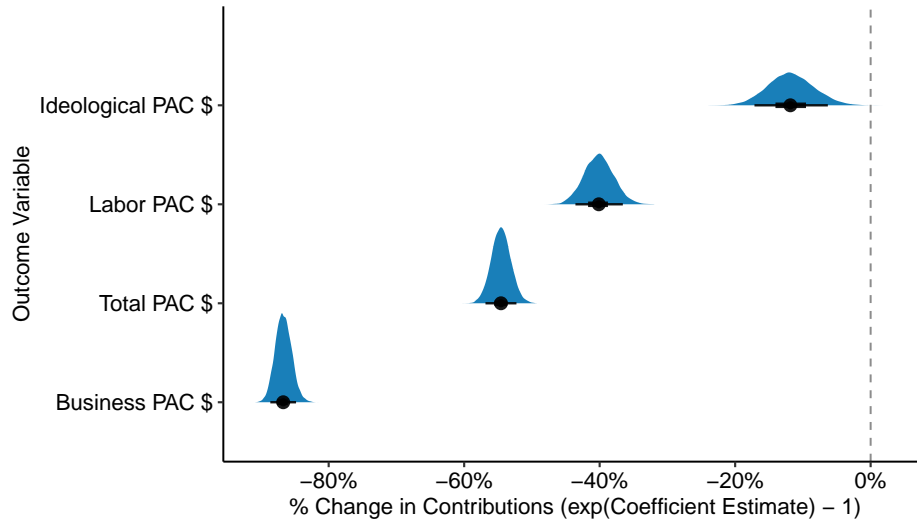
To model campaign contributions for outcomes without zeros (small-dollar individual, large-dollar individual, business individual, total individual, vote share, voting age population turnout), I use a standard gamma likelihood. Finally, to model the number of PAC contributors that a candidate has, I use a gamma-Poisson (negative binomial) likelihood to estimate the dispersion in the data.

## 4.2 Priors

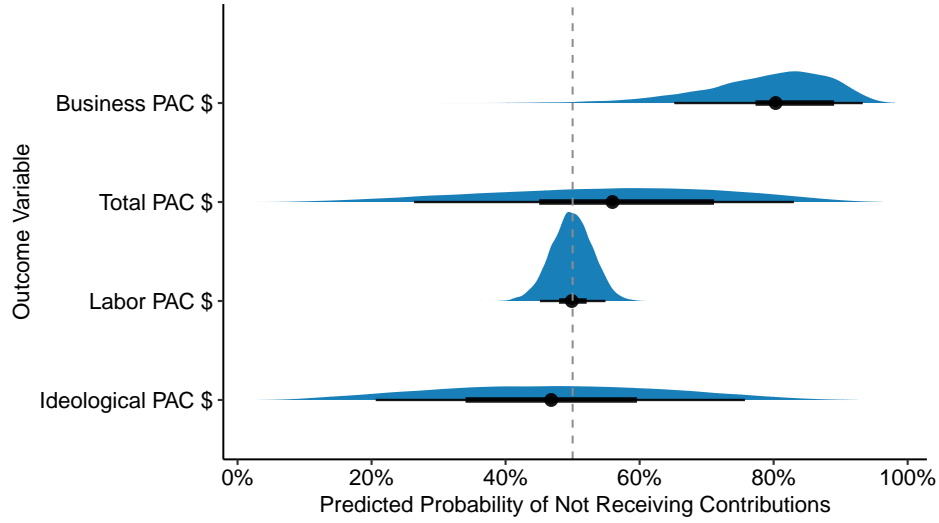
Just as the choice of likelihoods and link functions can lead to different results, the choice of priors also affects model results. Priors, even when somewhat strong, are typically overridden by the data when working with large-n dataset but when working with small-n data priors can have large influences if one is not careful (**mcneish·using·2016**). Although this risk is present, Bayesian methods can also outperform Frequentist methods when working with small-n data since Bayesian analysis does not have asymptotic properties and because priors can be used to help narrow the range of plausible values that the model can produce.

I use weakly-informative priors for two reasons. First, because the sample size is 167 individuals I use priors to inform the model of what values the parameters can reasonably take on. This practice leads to estimates that better approximate large-n estimates because irregular variance due to the small-n nature of the data can be discounted (**mcneish·using·2016**). Second, using “uninformative” priors is almost never justified since one always knows something *a priori* about the range of plausible values (**gelman·weakly·2008**). For example, whether one studies politics or not, it is known that a candidate's vote share cannot exceed 100% and cannot fall below 0%. For simulations of the priors used in each specification see Appendix INSERT HERE.

## 5 Results

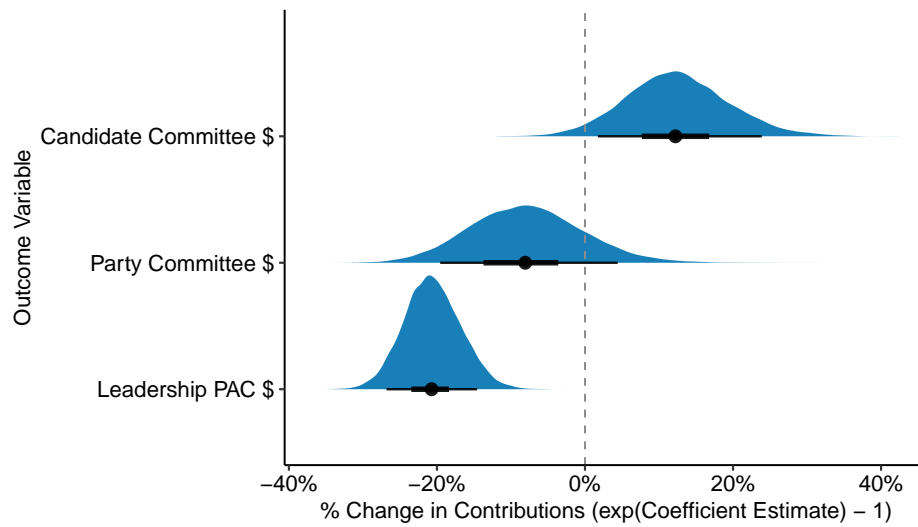


(a) The Effect of Rejecting Corporate PAC Contributions on PAC Contributions.

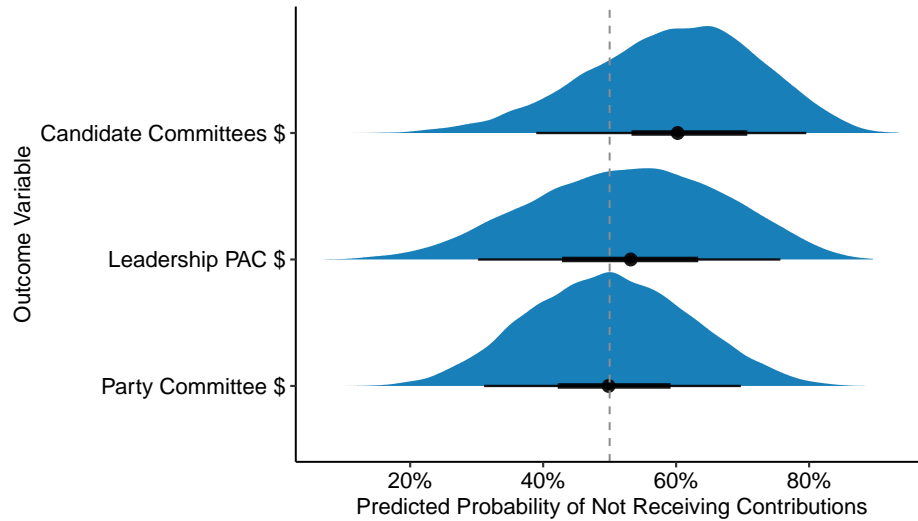


(b) The Effect of Rejecting Corporate PAC Contributions on the Probability of Receiving PAC Contributions

**Figure 5: The Effect of Rejecting Corporate PAC Contributions on PAC Contributions and the Probability of Receiving Money from PACs.** These figures present the posterior distributions estimated for a candidate that pledges to reject corporate PAC contributions. The dot shows the median coefficient estimate and the intervals show the 50% and 89% highest density intervals. Figure 5a shows that candidates that pledge to reject corporate PAC contributions experience a reduction in contributions from all types of PACs. Figure 5b shows that rejecting corporate PAC contributions increases the probability of not receiving contributions from business PACs. See Table A1 for the formal estimates.



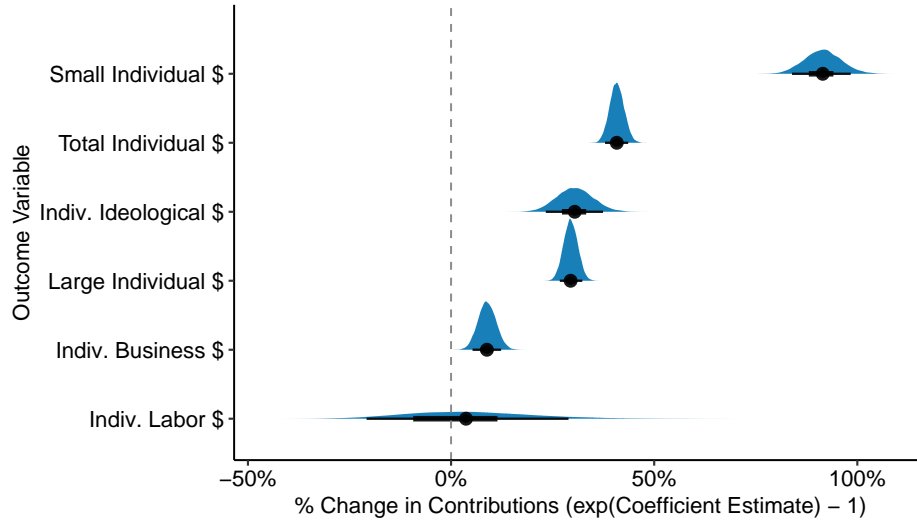
(a) The Effect of Rejecting Corporate PAC Contributions on Contributions from Party Organizations.



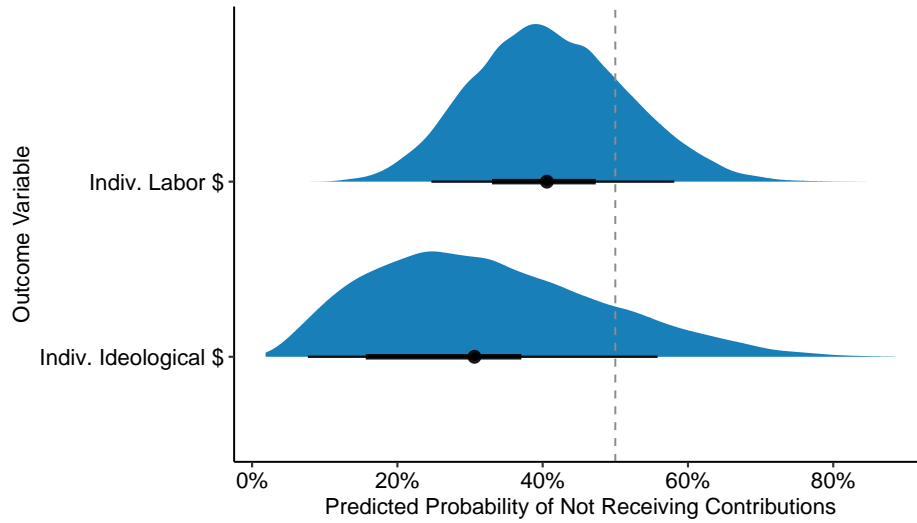
(b) The Effect of Rejecting Corporate PAC Contributions on the Probability of Receiving Party Contributions.

**Figure 6: The Effect of Rejecting Corporate PAC Contributions on Contributions and the Probability of Receiving Money from Political Parties.** These figures present the posterior distributions estimated for a candidate that pledges to reject corporate PAC contributions. The dot shows the median coefficient estimate and the intervals show the 50% and 89% highest density intervals. Figure 6a shows that candidates that pledge to reject corporate PAC contributions experience a reduction in contributions from leadership PACs but also experience an increase in contributions from candidate committees. Figure 6b shows that rejecting corporate PAC contributions has no effect on the probability of receiving contributions from candidate committees, leadership PACs, or political parties. See Table A1 for the formal estimates.





(a) The Effect of Rejecting Corporate PAC Contributions on Contributions from Individuals.



(b) The Effect of Rejecting Corporate PAC Contributions on the Probability of Receiving Individual Contributions.

**Figure 7: The Effect of Rejecting Corporate PAC Contributions on Contributions and the Probability of Receiving Money from Individuals.** These figures present the posterior distributions estimated for a candidate that pledges to reject corporate PAC contributions. The dot shows the median coefficient estimate and the intervals show the 50% and 89% highest density intervals. Figure 7a shows that candidates that pledge to reject corporate PAC contributions experience an increase in contributions from small-dollar, total, ideological, large-dollar, and business individual contributions. Figure 7b shows that rejecting corporate PAC contributions has no effect on the probability of receiving contributions from individuals affiliated with labor or ideological interest groups. See Table A1 for the formal estimates.

## 6 Discussion

Although candidates that took the pledge to reject PAC contributions explicitly stated that they are reject corporate PAC contributions, it is possible that this could affect contributions from PACs beyond those with primarily business interests. A candidate's decision to reject corporate PAC contributions is clearly strategic since they are choosing to retain the ability to receive donations from ideological and labor PACs. Candidates could have deliberated with ideological and labor organizations to develop this strategy with an agreement to help the member's campaign in the event that contributions from individuals fail to reach their expected values.

Table A1: The Effects of Pledging to Reject Corporate PAC contributions on Contributions from PACs

Predictor Variables	Outcome Variable:			
	Total PAC \$	Business PAC \$	Ideological PAC \$	Labor PAC \$
<i>Gamma Model (log link)</i>				
<i>Predictor of Interest</i>				
No to Corporate PAC Contributions	-0.79* [-0.84; -0.74]	-2.02* [-2.17; -1.88]	-0.13* [-0.18; -0.06]	-0.51* [-0.57; -0.45]
<i>Controls</i>				
New Member	-1.04* [-1.07; -1.00]	-2.41* [-2.49; -2.32]	0.68* [0.61; 0.74]	-0.41* [-0.46; -0.36]
% of White Population in District	-0.00 [-0.00; 0.00]	-0.01* [-0.01; -0.01]	-0.04* [-0.05; -0.03]	0.01* [0.01; 0.02]
% of Black Population in District	-0.00 [-0.01; 0.00]	-0.00* [-0.01; -0.00]	-0.04* [-0.05; -0.04]	0.00 [-0.01; 0.01]
% of Latino Population in District	-0.00 [-0.01; 0.00]	-0.01* [-0.01; -0.01]	-0.03* [-0.03; -0.02]	0.00 [-0.00; 0.01]
% of Asian Population in District	-0.02* [-0.02; -0.02]	-0.01* [-0.02; -0.01]	-0.05* [-0.06; -0.04]	-0.01* [-0.01; -0.00]
% of District Pop. with Bachelors Degree	-0.01* [-0.01; -0.01]	-0.01* [-0.01; -0.01]	0.00 [-0.00; 0.01]	-0.01* [-0.02; -0.01]
% of District Vote for Clinton in 2016	-0.02* [-0.02; -0.01]	-0.03* [-0.03; -0.03]	-0.02* [-0.03; -0.02]	0.01* [0.01; 0.02]
% of District Vote for Dem. House Candidates in 2016	0.01* [0.00; 0.01]	0.01* [0.01; 0.01]	-0.00 [-0.00; 0.00]	-0.00* [-0.00; -0.00]
log(Voting Age Population in District)	0.15 [-0.03; 0.33]	-0.05 [-0.28; 0.18]	1.32* [0.83; 1.79]	0.07 [-0.18; 0.30]
log(Median Household Income)	0.64* [0.57; 0.72]	0.59* [0.50; 0.69]	0.29* [0.10; 0.49]	0.02 [-0.08; 0.13]
Intercept	13.33* [13.32; 13.34]	12.93* [12.92; 12.95]	10.07* [10.04; 10.10]	11.67* [11.66; 11.69]
Dispersion Parameter	2514.54* [2475.14; 2554.93]	2363.02* [2323.03; 2400.76]	974.90* [951.17; 1000.97]	1018.48* [992.44; 1043.38]
<i>Binomial Model (Logit Link)</i>				
<i>Predictor of Interest</i>				
No to Corporate PAC Contributions	0.24 [-1.07; 1.54]	1.41* [0.43; 2.29]	-0.13 [-1.35; 1.14]	-0.00 [-0.20; 0.20]
<i>Controls</i>				
New Member	-0.81 [-2.19; 0.43]	0.76 [-0.17; 1.69]	0.24 [-0.89; 1.40]	-0.01 [-0.18; 0.16]
Intercept	-3.56* [-4.33; -2.87]	-3.34* [-4.00; -2.70]	-3.54* [-4.28; -2.85]	-3.70* [-3.77; -3.63]
Number of Observations	167	167	167	167

Notes: Models are estimated using zero-augmented Gamma likelihoods. Analyses use four Markov chain Monte Carlo (MCMC) chains at 10,000 iterations each with a warmup period of 5,000 samples using the Hamiltonian Monte Carlo algorithm. All chains indicate convergence with every  $\hat{R}$  value being less than 1.01. Model coefficients are estimated with weakly informative priors. 89% highest density intervals shown in brackets below each coefficient. \* indicates that 0 is outside 89% highest posterior density interval.

Table A2: The Effects of Pledging to Reject Corporate PAC contributions on Contributions from Party Organizations

Predictor Variables	Outcome Variable:		
	Leadership PAC \$	Candidate Committee PAC \$	Party Committee \$
<i>Gamma Model (log link)</i>			
<i>Predictor of Interest</i>			
No to Corporate PAC Contributions	-0.23* [-0.31; -0.15]	0.12* [0.02; 0.22]	-0.08 [-0.22; 0.04]
<i>Controls</i>			
New Member	1.24* [1.14; 1.34]	0.63* [0.51; 0.75]	0.04 [-0.11; 0.18]
% of White Population in District	-0.07* [-0.08; -0.06]	-0.02 [-0.04; 0.00]	0.51* [0.43; 0.58]
% of Black Population in District	-0.08* [-0.09; -0.07]	-0.01 [-0.03; 0.00]	0.53* [0.45; 0.61]
% of Latino Population in District	-0.07* [-0.08; -0.06]	-0.01 [-0.03; 0.01]	0.54* [0.47; 0.62]
% of Asian Population in District	-0.11* [-0.13; -0.10]	-0.02 [-0.04; 0.00]	0.49* [0.39; 0.60]
% of District Pop. with Bachelors Degree	-0.02* [-0.03; -0.02]	-0.02* [-0.03; -0.02]	0.01 [-0.01; 0.02]
% of District Vote for Clinton in 2016	-0.01* [-0.02; -0.00]	-0.02* [-0.02; -0.01]	-0.13* [-0.15; -0.10]
% of District Vote for Dem. House Candidates in 2016	-0.01* [-0.02; -0.01]	-0.01* [-0.01; -0.01]	-0.00 [-0.01; 0.00]
log(Voting Age Population in District)	3.34* [2.71; 3.93]	2.39* [1.70; 3.07]	-0.41 [-2.04; 1.22]
log(Median Household Income)	1.42* [1.13; 1.71]	0.74* [0.41; 1.05]	-0.07 [-0.79; 0.66]
Intercept	9.30* [9.24; 9.35]	8.58* [8.53; 8.64]	6.61* [6.45; 6.79]
Dispersion Parameter	1113.08* [1087.71; 1141.14]	572.91* [553.86; 591.51]	68.92* [62.54; 75.63]
<i>Binomial Model (Logit Link)</i>			
<i>Predictor of Interest</i>			
No to Corporate PAC Contributions	0.13 [-0.89; 1.08]	0.41 [-0.48; 1.32]	-0.01 [-0.80; 0.83]
<i>Controls</i>			
New Member	-0.55 [-1.54; 0.36]	-0.35 [-1.24; 0.48]	-1.13* [-1.87; -0.41]
Intercept	-2.05* [-2.47; -1.61]	-1.92* [-2.33; -1.51]	2.00* [1.58; 2.42]
Number of Observations	167	167	167

Notes: Models are estimated using zero-augmented Gamma likelihoods. Analyses use four Markov chain Monte Carlo (MCMC) chains at 10,000 iterations each with a warmup period of 5,000 samples using the Hamiltonian Monte Carlo algorithm. All chains indicate convergence with every  $\hat{R}$  value being less than 1.01. Model coefficients are estimated with weakly informative priors. 89% highest density intervals shown in brackets below each coefficient. \* indicates that 0 is outside 89% highest posterior density interval.

Table A3: The Effects of Pledging to Reject Corporate PAC contributions on Contributions from Individuals

Predictor Variables	Outcome Variable:					
	Small-dollar \$	Large-dollar \$	Total Individual \$	Ideological Individual \$	Business Individual \$	Labor Individual \$
<i>Gamma Model (log link)</i>						
<i>Predictor of Interest</i>						
No to Corporate PAC Contributions	0.65* [0.61; 0.69]	0.26* [0.24; 0.28]	0.34* [0.32; 0.36]	0.27* [0.21; 0.32]	0.08* [0.05; 0.12]	0.04 [−0.20; 0.28]
<i>Controls</i>						
New Member	0.99* [0.94; 1.04]	0.63* [0.60; 0.66]	0.69* [0.66; 0.71]	0.63* [0.56; 0.70]	0.14* [0.10; 0.18]	1.07* [0.74; 1.39]
% of White Population in District	−0.04* [−0.04; −0.03]	−0.01* [−0.01; −0.00]	−0.01* [−0.01; −0.01]	−0.06* [−0.07; −0.05]	−0.00 [−0.01; 0.00]	−0.09* [−0.13; −0.06]
% of Black Population in District	−0.08* [−0.09; −0.08]	−0.02* [−0.02; −0.02]	−0.03* [−0.03; −0.02]	−0.08* [−0.09; −0.07]	−0.01* [−0.02; −0.01]	−0.12* [−0.16; −0.09]
% of Latino Population in District	−0.04* [−0.04; −0.03]	0.00 [−0.00; 0.01]	−0.00 [−0.00; 0.00]	−0.04* [−0.05; −0.04]	0.01* [0.00; 0.01]	−0.10* [−0.13; −0.07]
% of Asian Population in District	−0.06* [−0.06; −0.05]	−0.02* [−0.03; −0.02]	−0.02* [−0.03; −0.02]	−0.10* [−0.11; −0.09]	−0.02* [−0.02; −0.01]	−0.11* [−0.16; −0.06]
% of District Pop. with Bachelors Degree	−0.01* [−0.01; −0.01]	−0.02* [−0.02; −0.01]	−0.01* [−0.02; −0.01]	−0.03* [−0.03; −0.02]	−0.02* [−0.02; −0.01]	0.05* [0.03; 0.07]
% of District Vote for Clinton in 2016	0.00* [0.00; 0.01]	−0.01* [−0.01; −0.00]	−0.00* [−0.00; −0.00]	0.01* [0.01; 0.01]	−0.01* [−0.01; −0.01]	0.00 [−0.01; 0.02]
% of District Vote for Dem. House Candidates in 2016	−0.02* [−0.02; −0.01]	−0.01* [−0.01; −0.01]	−0.01* [−0.01; −0.01]	−0.02* [−0.02; −0.02]	−0.01* [−0.01; −0.01]	0.04* [0.03; 0.05]
log(Voting Age Population in District)	−1.01* [−1.40; −0.62]	0.28* [0.10; 0.45]	0.14 [−0.02; 0.32]	2.06* [1.63; 2.52]	1.15* [0.92; 1.36]	−2.69* [−5.29; −0.15]
log(Median Household Income)	1.70* [1.56; 1.83]	2.14* [2.07; 2.21]	2.02* [1.95; 2.09]	3.67* [3.47; 3.86]	2.35* [2.25; 2.44]	−1.17* [−1.97; −0.40]
Intercept	10.87* [10.84; 10.91]	13.12* [13.11; 13.13]	13.26* [13.25; 13.28]	10.27* [10.23; 10.31]	12.48* [12.46; 12.49]	5.80* [5.63; 5.99]
Dispersion Parameter	2269.58* [2230.23; 2305.61]	3737.15* [3689.42; 3787.57]	4093.77* [4042.55; 4143.86]	1589.96* [1559.06; 1621.54]	2658.35* [2617.04; 2699.94]	91.68* [84.19; 98.85]
<i>Binomial Model (Logit Link)</i>						
<i>Predictor of Interest</i>						
No to Corporate PAC Contributions				−0.82 [−2.15; 0.41]		−0.38 [−1.07; 0.38]
<i>Controls</i>						
New Member				−0.50 [−1.64; 0.60]		−0.17 [−0.79; 0.52]
Intercept				−2.66* [−3.20; −2.14]		0.84* [0.53; 1.14]
Number of Observations	167	167	167	167	167	167

Notes: Models are estimated using either a zero-augmented Gamma likelihood or a Gamma likelihood. Analyses use four Markov chain Monte Carlo (MCMC) chains at 10,000 iterations each with a warmup period of 5,000 samples using the Hamiltonian Monte Carlo algorithm. All chains indicate convergence with every  $\hat{R}$  value being less than 1.01. Model coefficients are estimated with weakly informative priors. 89% highest density intervals shown in brackets below each coefficient. \* indicates that 0 is outside 89% highest posterior density interval.

Table A4: The Effects of Pledging to Reject Corporate PAC contributions on Voter Support

Predictor Variables	Outcome Variable:	
	Vote %	Voting Age Population Turnout %
<i>Gamma Model (log link)</i>		
<i>Predictor of Interest</i>		
No to Corporate PAC Contributions	0.00 [−0.04; 0.05]	−0.09 [−0.30; 0.12]
<i>Controls</i>		
New Member	−0.09* [−0.13; −0.04]	0.14 [−0.08; 0.35]
% of White Population in District	0.00 [−0.00; 0.01]	−0.01 [−0.03; 0.02]
% of Black Population in District	0.00 [−0.00; 0.01]	−0.03* [−0.05; −0.00]
% of Latino Population in District	0.00 [−0.00; 0.01]	−0.03* [−0.06; −0.01]
% of Asian Population in District	0.00 [−0.00; 0.01]	−0.02 [−0.05; 0.01]
% of District Pop. with Bachelors Degree	0.00 [−0.00; 0.00]	−0.02* [−0.03; −0.00]
% of District Vote for Clinton in 2016	0.01* [0.01; 0.01]	0.04* [0.02; 0.05]
% of District Vote for Dem. House Candidates in 2016	0.00 [−0.00; 0.00]	−0.01* [−0.02; −0.00]
log(Voting Age Population in District)	0.02 [−0.27; 0.32]	−1.74* [−3.14; −0.34]
log(Median Household Income)	−0.10 [−0.21; 0.00]	0.73* [0.17; 1.28]
Intercept	4.22* [4.20; 4.24]	3.28* [3.19; 3.36]
Dispersion Parameter	0.79* [0.65; 0.94]	8.67* [7.14; 10.40]
Number of Observations	167	167

Notes: Models are estimated using a Gamma likelihood with a log link function. Analyses use four Markov chain Monte Carlo (MCMC) chains at 8,000 iterations each with a warmup period of 3,000 samples using the Hamiltonian Monte Carlo algorithm. All chains indicate convergence with every  $\hat{R}$  value being less than 1.01. Model coefficients are estimated with weakly informative priors. 89% highest density intervals shown in brackets below each coefficient. \* indicates that 0 is outside 89% highest posterior density interval.