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Keywords: Favoritism, Power, Scrutiny, Political connection, Congressmen**JEL Classification:** D72, D73, D85, G14, G32

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Power, Scrutiny, and Congressmen’s Favoritism for Friends’ Firms*

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Abstract

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“Power tends to corrupt and absolute power corrupts absolutely.”

—Lord Baron Acton (1887)

“Because power corrupts, society’s demands for moral authority and character increase as the importance of the position increases.”

—Commonly attributed to John Adams

1 Introduction

Discussions of politicians’ favoritism usually evoke the widely shared view that politicians in higher office with more political power tend to give more favor to individuals and groups connected to them. The age-old literature on distributive politics in the U.S. since [Lasswell’s \(1936\)](#) *“Politics: Who Gets What, When, How”* has most often described more powerful U.S. congressmen, such as those holding more senior positions in powerful committees, as more likely to deliver funds and projects towards their constituencies and connected interests.¹ This view overlooks the possibility that, in response, existing institutions place stronger checks and scrutiny on more powerful positions, so that they need not produce more favoritism. This aspect of institutional design has already figured among the chief concerns of the Founding Fathers of the United States, as highlighted in the epigraph. In this paper, we elaborate the role of scrutiny in its interplay with the power to give favor, and provide novel evidence from closed elections to the U.S. Congress that a politician’s ascendance to Congress may even lead to lower, not higher favoritism towards his friends’ firms.²

As [Mayhew \(1974\)](#) argued, scrutiny over Congress members matters most through their reelection concern. Therefore, it is important to consider their career dynamic, especially vis-à-vis their behaviors in office.³ The politician faces the trade-off that giving more quid-pro-quo favor today may endanger his future career prospect. Rising to a position of higher power, but under tighter scrutiny, his decision to increase or decrease favoritism will thus depend on his concern for his future career and future capability to give out favor, highlighted by [Niehaus and Sukhtankar’s \(2013\)](#) as the “golden goose” effect on corruption.⁴ Due to

¹Examples abound in the literature of pork-barrel politics towards congressmen’s constituencies, following [Ferejohn’s \(1974\)](#) seminal work on the power of congressmen’s membership and seniority in public works and appropriation committees, and also [Ray \(1981\)](#), [Roberts \(1990\)](#), [Rundquist et al. \(1996\)](#), [Carsey and Rundquist \(1999\)](#), [Levitt and Poterba \(1999\)](#), [Rundquist and Carsey \(2002\)](#), [Cohen et al. \(2011\)](#), [DeBacker \(2011\)](#), [Fowler and Hall \(2017\)](#), among others. In non-U.S. contexts, the literature on favoritism has demonstrated widespread evidence of favors from politicians promoted to more powerful positions across all forms of regimes, from Norway ([Fiva and Halse, 2016](#)) and Italy ([Carozzi and Repetto, 2016](#)) to China ([Chu et al., 2021](#)) and Vietnam ([Do et al., 2017](#)), among others.

²For convenience, as most Congress members are males, we address the politician by he/him/his.

³The literature on electoral control of politicians since [Barro \(1973\)](#) and [Ferejohn \(1986\)](#) has highlighted the key role of past behaviors as determinants of reelection. In particular, public media disclosure of politicians’ malfeasance can weigh heavily on their chances of reelection, a fact that has not been neglected by those with strong career concerns (e.g., [Ferraz and Finan, 2008, 2011, Larreguy et al., 2019](#)).

⁴In the context of India’s largest rural welfare program, [Niehaus and Sukhtankar \(2013\)](#) exploits an exogenous increase in illicit rents that corrupt officials can appropriate, and estimates that the concern for future illicit rents, dubbed the “golden goose effect”, reduces their theft by 64 percent.

those dynamic concerns, the stream of favors can vary greatly along the politician’s career by his positions’ power and scrutiny.

We organize those intuitions into a minimal model of the politician’s career dynamic that may oscillate between two levels of political offices, the higher of which enjoys more power to exert favoritism but faces stronger scrutiny. Our major focus is the difference in expected favoritism between the two offices, each understood as the present value of all present and future benefits for connected firms. This differential present value follows a simple, tractable recursive dynamic, from which we draw empirical implications on its sign and change in response to varying power, scrutiny, and career concerns. We highlight the case of the “adverse effect” of higher positions on favoritism for friends’ firms. That is, a politician’s promotion from low to high offices may reduce favoritism when scrutiny trumps power. This happens when the increase in scrutiny more than offsets the rise in power. The setting and the precise conditions are explained in section 2, and detailed in Appendix B.

In that case, a politician’s career is composed of two stages: While in the later stage of his career a politician’s higher position produces greater present value of favors for connected firms, in the earlier stage a higher position lowers the present value of favors. To put differently, the dampening effect of scrutiny on early-career favors more than compensates the positive effect of power on late-career favors, so that the net present value of the higher office is negative for connected firms.⁵

We examine those implications in the context of firms that are socially connected to candidates in U.S. Congress elections. Congress seats represent higher offices in the model, as opposed to positions in state-level politics.⁶ We measure a politician’s socially connected firm as one with a director who attended the same university program around the same year as the politician.⁷ Data on corporate directors’ educational backgrounds are gathered from BoardEx (previously used in, e.g., [Cohen et al., 2008](#)), and those regarding politicians are manually collected from archives of campaign websites and Lexis-Nexis biographies (section 4). The net value of a connected firm’s present and future benefits from favoritism is reflected in its cumulative

⁵This is not inconsistent with the politician’s willingness to win elections and ascend to more powerful offices (e.g., [Grosceclose and Stewart, 1998](#), [Stewart and Grosceclose, 1999](#)). His net present value of higher office can still be positive, as he attributes an intrinsic value to the higher office.

⁶As studied in a long tradition in political science ([Polsby and Schickler, 2002](#)) and economics ([Diermeier et al., 2005](#)), U.S. Congressmen wield large political power and influence on economic activities, especially in their home state. Their power likely strengthens with their seniority and memberships in key committees ([Grosceclose and Stewart, 1998](#), [Stewart and Grosceclose, 1999](#)). Notably, [Roberts \(1990\)](#) documents that, following the sudden death of Senator Henry Jackson, the ranking Democrat on the Armed Services Committee, the market value of defense contractors from his home state of Washington declined, while that of contractors from Georgia, home to the next-most-senior Senator on the same committee, increased. Section 5.2 will also show evidence that congressmen become more scrutinized in the media.

⁷University alumni networks play an important role in the corporate world in the U.S., e.g., as shown by [Cohen et al. \(2008\)](#), [Lerner and Malmendier \(2013\)](#), [Ishii and Xuan \(2014\)](#), [Fracassi \(2017\)](#). Alumni networks likely have high network closure ([Karlan et al., 2009](#)), thus are very useful for favor exchange, as they guarantee against uncooperative behaviors and reinforce mutual trust, under the threat of social punishment and ostracization from the network. Unlike links based on political campaign contributions, alumni-based connections predate the studied period for decades, hence are not endogenous to a firm’s immediate decisions. See [Marsden \(1990\)](#), [Ioannides and Loury \(2004\)](#), and [Allen and Babus \(2009\)](#) for reviews and discussions of social networks measurement.

abnormal stock returns (CARs) around the election, which is used as the main outcome in our empirical analysis.

As abnormal daily returns may still reflect other sources of variation,⁸ we seek to best identify the differential effect between the politicians’ higher and lower offices by focusing on the Regression Discontinuity Design (RDD) of close elections, in which electoral victory and defeat are almost as random as a coin toss (Lee, 2008, Lee and Lemieux, 2010, de la Cuesta and Imai, 2016) (section 3). That is, we compare the CARs of firms connected to elected candidates with those of firms connected to defeated ones in a cross-sectional identification that eliminates all potential differences along observable and unobservable characteristics between the two types of firms (Lee and Lemieux, 2010). The RDD estimates a Weighted Average Treatment Effect corresponding to the model’s key differential favoritism effect between higher and lower offices.

We find robust evidence of the adverse effect of higher positions on favoritism towards friends’ firms: compared with firms connected to defeated candidates, firms connected to narrowly elected congressmen take a loss in stock value of 1.9% after one day and 3.2% after one week (section 5.1). For the median firm’s market value in our sample (\$656 million), those figures amount to \$12 million and \$21 million, respectively.⁹

The evidence is also consistent with the model’s additional predictions regarding scrutiny and power. First, we take a Difference in Discontinuity approach, using Craigslist’s staggered entry across counties (Djourelouva et al., 2023) as an exogenous determinant of local media scrutiny, to show that a state’s weak scrutiny causally magnifies this adverse effect of Congress connection on favoritism. This pattern also arises with other proxies for the scrutiny gap between state and federal politics, including voters’ interest in politics, exposure to the media, and state’s corruption (section 5.2).

Second, consistent with politicians’ career concerns, the effect is mostly pronounced for the earlier part of their career, and subsequently fades away (section 5.3). Third, the effect varies as predicted according to (i) proxies for politicians’ power to give favor, (ii) firms’ attributes, such as firm size and location, that may affect their benefits, and (iii) the strength and quality of connections (section 5.4). We further discuss issues regarding the measurement of connections among classmates, and address two alternative interpretations of the mechanism at work based on same-school homophily and on Shleifer and Vishny’s (1994) negative effect of political connections due to pressure to increase employment (section 6).

Notably, most of the effect is due to challengers from state politics, and not incumbents. Hence, firms

⁸Event studies of connections exploit identification strategies on the time dimension (e.g., Roberts, 1990, Fisman, 2001). Those daily events and daily measures of stock returns are still subject to (i) the prior probability that an event would happen, and (ii) potentially confounding news and reactions around election day. While they can be better addressed with real-time data from prediction markets (Snowberg et al., 2007), prediction markets unfortunately did not exist for the vast majority of elections we consider.

⁹Subsection 5.4 shows the prevalence of the effect among smaller firms, as it vanishes around the sample-mean market value of \$6,367 million, and becomes positive and significant for the largest firms. On average, firms in our sample are connected to 1.1 politicians in close elections on average. Section 3 discusses the generalizability of our RDD estimates to other politicians.

benefit more when their connected politicians in state politics are defeated and remain entrenched in state politics, rather than get elected to Congress. This finding is reminiscent of the literature on rampant corruption across U.S. states (Glaeser and Saks, 2006, Campante and Do, 2014), with state officials wielding strong power and relatively weak checks and balances (Kousser and Phillips, 2012). In support of this paper’s message, our companion study (Do et al., 2021) shows evidence that closely elected state governors add as much as 4.1% to the market value of their former classmates’ firms.

This paper’s results can be best seen in comparison with the common monotonic finding that politicians’ rise on the power ladder unfailingly increases favoritism, which has been a constant, long-standing feature in distributive politics, as recently reviewed in Golden and Min, 2013. Related evidence in the U.S. comes from, e.g., surprising events regarding specific politicians in Roberts (1990), Jayachandran (2006), Fisman et al. (2012), and Acemoglu et al. (2016). Close presidential elections in the U.S. (Knight, 2007, Goldman et al., 2009, 2013, Mattozzi, 2008) also unveil the pattern of benefits to firms connected to the winning party. Relatedly, the literature has considered connections based on campaign contributions in corporate-sponsored Political Action Committees (PACs) in support of specific politicians (Cooper et al., 2010, Akey, 2015, Fowler et al., 2020),¹⁰ and connections between top politicians and lobbying firms (Blanes i Vidal et al., 2012, Bertrand et al., 2014). Beyond the U.S., from both cross-country and country-specific case studies, most evidence also points to the monotonic relationship between more powerful political positions and more favors targeted towards connected groups.¹¹

Beyond such monotonic relationship, this paper introduces a novel, more nuanced pattern of favoritism’s dependence on the interplay between political power and institutional scrutiny. Our empirical setting helps correctly identify the change of firm’s value from favoritism associated with a politician’s different positions. The evidence points to the key role of institutional checks and balances in curbing favoritism,¹² and opens the natural question of how to design the optimal structure of the system of scrutiny and monitoring policies across different layers of government.

¹⁰While earlier papers find a positive relationship between positions in Congress and contributors’ stock values, the latest, most thorough exercise by Fowler et al. (2020) concludes that the average effect is very close to zero. It reaffirms Ansolabehere et al.’s (2003) prevalent view in political science that corporate campaign contribution is tightly restricted and could hardly promote firms’ interests (at least before the U.S. Supreme Court’s decision on *Citizens United* in 2010). The use of campaign contributions to measure connections between politicians and firms is the fundamental difference with our empirical exercise’s reliance on alumni network links, which cannot be affected by firms’ short-term decisions.

¹¹Cross-country evidence includes Faccio’s (2006) and Faccio et al.’s (2006) findings from connections between firms and politicians based on family ties, prior employment, or ownership, and Hodler and Raschky’s (2014) results with country leaders’ region of birth. While Burgess et al. (2015) found evidence of favoritism in Kenya towards the president’s ethnic group only under autocracy, elsewhere similar evidence is established in both democracies such as Norway (Fiva and Halse, 2016), Sweden (Amore and Bennedsen, 2013), France (Coulomb and Sangnier, 2014), Germany (Baskaran and Lopes da Fonseca, 2017), Italy (Carozzi and Repetto, 2016), Spain (Curto-Grau et al., 2018) as well as countries with weaker institutions such as Indonesia (Fisman, 2001), Malaysia (Johnson and Mitton, 2003), Pakistan (Khawaja and Mian, 2005), Brazil (Claessens et al., 2008, Colonnelli et al., 2020), Ecuador (Brassio et al., 2020), Thailand (Bunkanwanicha and Wiwattanakitang, 2009), Taiwan (Imai and Shelton, 2011), China (Fan et al., 2007, Chu et al., 2021, Kung and Zhou, 2021) and Vietnam (Do et al., 2017).

¹²International comparison of evidence of favoritism, say, between Scandinavia (Fiva et al., 2021) and Latin America (Brassio et al., 2020, Colonnelli et al., 2020), as well as Hodler and Raschky’s (2014) cross-country evidence, is also consistent with the key role of good institutions.

Besides this paper, we are aware of only two studies that have defied this common view of more favor from higher office. [Bertrand et al. \(2018\)](#) shows [Shleifer and Vishny’s \(1994\)](#) mechanism in which connected politicians pressure French companies to hire more before their elections. [Fisman et al. \(2012\)](#) reports that stocks connected to Vice President Dick Cheney are not affected either by news related to his health and political future in two special events or by the probabilities of Bush’s victory or the Iraq war. While such finding is explained as evidence of the strength of U.S. institutions, the paper stops short of showing how.

The importance of institutional checks and balances to reduce favoritism towards socially connected recipients may extend beyond the democratic setting studied in this paper, towards contexts of nondemocratic strong states that can impose disciplinary principles to curb favoritism. [Fisman et al. \(2020\)](#) demonstrates systematic evidence of disadvantage of high-ranked politicians that are more connected to top leaders in Chinese politics, consistent with the Chinese Communist Party’s long-standing principle of anti-factionalism.

2 Theoretical intuitions and testable predictions

This section presents the intuitions that illustrate the trade-off between favoritism benefits and career concerns in a setting when both power to give favors and scrutiny over favoritism matter, and connect parameters that determine favoritism to testable implications in our RDD framework. Those intuitions are formally derived in [Appendix B](#). While this is certainly not the only way to model such trade-off, we find it useful to provide this structure to our subsequent empirical analysis by different determinants of both power and scrutiny.

We consider the politician’s career dynamic between two stylized types of political positions, such as Congress seats versus positions in state-level politics, which differ in both the power to favor connected firms and the extent of institutional scrutiny over favoritism.¹³ In each position s and at time t , a connected firm expects a value $V_{s,t}$ from present and future favors, and the politician’s expected present value is $W_{s,t}$. We define the firm’s and politician’s differences in values across those positions, and focus empirically on the former, as it naturally maps to observed changes in the firm’s stock value:

Definition 1 *The firm’s differential value $\Delta V_t \stackrel{def}{=} V_{2,t} - V_{1,t}$ is the difference of its values from its connection to the politician’s higher position ($s = 2$) versus the lower position ($s = 1$). Analogously, $\Delta W_t \stackrel{def}{=} W_{2,t} - W_{1,t}$ is the politician’s differential value.*

The politician’s choice of favoritism towards the firm along his career faces a major trade-off between increasing his own immediate benefits from such action and further jeopardizing the next election to attain

¹³Our dynamic modeling of a politician’s career concern under the risk of exit follows [Barro’s \(1973\)](#) and [Becker and Stigler’s \(1974\)](#) tradition, and more recently in [Campante et al. \(2009\)](#), [Niehaus and Sukhtankar \(2013\)](#), with a reduced-form negative relationship between favoritism and electoral success.

or keep a Congress seat, the importance of which depends on future benefits from the office. The problem can be reduced to a recursive dynamics of ΔV_t and ΔW_t , and admits a unique equilibrium (Appendix Proposition B.1).

We further parametrize each position’s power to give favor (marginal benefit of favor) by $\beta_2 \geq \beta_1 > 0$, and the corresponding degree of scrutiny (marginal cost of favor on election success probability) by $\gamma_2 \geq \gamma_1 > 0$. The relative power is $\beta \stackrel{def}{=} \frac{\beta_2}{\beta_1} \geq 1$ and the relative scrutiny $\gamma \stackrel{def}{=} \frac{\gamma_2}{\gamma_1} \geq 1$. We obtain the following testable prediction on the firm’s differential value of favoritism:

Proposition 1 (i) *If power trumps scrutiny, in that $\beta \geq \gamma$, then the connected firm enjoys higher present value when the politician attains higher office: $\Delta V_t^* \geq 0 \forall t$.*

(ii) *If scrutiny trumps power, in that $\beta < \gamma$, over a long enough career, there exists a time \bar{t} before which there is an adverse effect of higher position on the present value of favoritism: $\Delta V_t^* < 0 \forall t < \bar{t}$. After \bar{t} , ΔV_t^* is positive and increasing in t .*

In the second case, over the politician’s career ΔV_t^* follows a loosely upward longterm trend. It becomes positive and increasing in late career when electoral concerns subside, but at an early stage the strong electoral incentives induce the politician to reduce favoritism when he attains a higher position. This pattern is akin to Olson’s (1993) famous “roving bandit” intuition, as a shorter horizon reduces electoral control on the politician. We will show robust evidence of the adverse effect of higher position in section 5.1, and illustrate this career-long trend in section 5.3.

We further derive comparative statics with respect to power and scrutiny, to be tested in corresponding comparative situations in sections 5.2 and 5.4:

Proposition 2 *When scrutiny trumps power, in presence of the adverse effect of higher position ($\Delta V_t < 0$), its magnitude $|\Delta V_t|$ increases when:*

- β_2 decreases and/or β_1 increases,
- both increase while their ratio β remains the same,
- γ_2 increases and/or γ_1 decreases,
- both decrease while their ratio γ remains the same.

Appendix B provides the proofs of Propositions 1 and 2.

3 Empirical methodology and data description

3.1 Identification of the differential value of political connections

We bring section 2’s predictions about the differential value of political connections, ΔV , to an empirical setting surrounding elections to the U.S. Congress. Those important events shape politicians’ career prospects

that can be broadly mapped to the high and low positions described in the theory. As the net present value V of a firm’s connection to a politician is priced into its stock price, short-term changes in the stock price correspond to changes in V . It follows naturally that we can use event-study methods to associate electoral results with the changes in V over time.

Time-series identification and CARs. To implement this approach, we obtain daily stock data from the Center for Research in Security Prices (CRSP), and compute the Cumulated Abnormal Returns (CARs) on a firm’s stock around the election day. We follow conventional event study methods (Campbell et al., 1997, c. 4) to calculate abnormal returns in a single-factor market model estimated from the pre-event window from day -315 to day -61, counting from the election day (always a trading day). CARs are summed from abnormal returns over the 7-day window from day -1 to day 5 (other pre- and post-election event windows are also considered in placebo and robustness checks).¹⁴ They reflect the stock market’s expectation of changes to a firm’s value, which maps directly to changes in V , assuming no other event takes place at the same time.

Cross-sectional identification with RDD. The time-series identification still faces three key empirical challenges. First, a politician’s electoral success can be endogenous, so that the estimated effect could reflect (i) a reverse causation channel from the firm’s performance to the politician’s victory or defeat, or (ii) an omitted variable bias when connected firms and politicians are affected by the same unobservable factor, such as a shift in public opinion. Second, as election days are determined and known in advance, there can be other concurrent events that confound the estimates of abnormal returns. Third, time variations in stock prices depend crucially on the market’s prediction of event probability, which is not independently observable for lack of a prediction market on individual Congress elections (see discussions in Fisman, 2001, Snowberg et al., 2011). In particular, if the distribution of investors’ beliefs of the probability of a politician’s winning chance is biased, market reactions to electoral results will carry such biases, making it impossible to identify the true effect on changes in V .¹⁵

We thus combine the usage of CARs with a cross-sectional identification based on the Regression Discontinuity Design (RDD) of close elections (Hahn et al., 2001, Lee and Lemieux, 2010, de la Cuesta and Imai, 2016). As the vote shares between the top two candidates in each election tend to the threshold of 50%, the electoral outcome of a win or a loss approaches a random draw between the two. At this threshold,

¹⁴Our results are not sensitive to the method of estimation of abnormal returns, such as using multiple factor models by Fama and French (1993) and Carhart (1997) (Appendix Table A5). Appendix C.1 summarizes the calculation of CARs, and argues that the quasi-random nature of RDD necessarily implies the estimate’s robustness.

¹⁵To illustrate this point, suppose that the market value of connection to a candidate is \$100 in case he wins, and zero otherwise. Prior to the election, if the market believes he already has a winning probability of 65%, pre-election connection is already priced by the market at \$65. An event study of election wins would report the post-event market reaction to a realized win of only \$100-\$65=\$35.

in expectation the distributions of any characteristics, observable or unobservable, are identical between winners and losers. Their comparison thus estimates the differential value of connection to a politician in high versus low positions, conditional on the vote shares being fixed at 50%. Thanks to the equivalence to a random draw, this RDD strategy is immune to the three aforementioned problems of event-study methods.¹⁶

Because of the almost-random properties of RDD, we expect that the inclusion of predetermined covariates does not matter to the main estimate (Lee and Lemieux, 2010). Since we could consider short-term CARs as functions of pre-event data on each stock and the short-term reactions to election results, RDD’s property means that cross-sectional estimates using CARs would differ little from those using raw returns. Hence the backbone of our empirical strategy is a cross-sectional identification by RDD, while the usage of CARs just helps to reduce noise and improve precision.

Regarding external validity, Lee and Lemieux (2010) interprets the RDD estimand as a Weighted Average Treatment Effect (WATE) of being connected to a winner, in which each candidate is weighted by his ex ante likelihood to be in a close election. This likelihood is nontrivial for most candidates, as our sample includes prominent figures such as John Ashcroft, Walter Mondale, and Ted Stevens.¹⁷

3.2 Implementation of RDD

In practice, to estimate the discontinuity effect at exactly the threshold of 50%, RDD specifications use data points within a distance from this threshold, while accounting for separate functions of the vote shares on both sides of the threshold. We follow Lee and Lemieux’s (2010) standard procedure for our main specification to estimate the differential value of Congress connection to firms:

$$CAR_{idt} = \beta Winner_{pt} + \delta_W VS_{pt} \mathbb{1}_{\{VS_{pt} \geq 50\%\}} + \delta_L VS_{pt} \mathbb{1}_{\{VS_{pt} < 50\%\}} + \varepsilon_{idpt}. \quad (1)$$

Each observation is a combination of politician p , director d , firm i , and election year t such that (i) politician p is a top-two candidate in a close election in year t (i.e., within 5% of vote margin), (ii) director d is on the board of firm i in year t , and (iii) politician p and director d are connected as former classmates in the same university degree program (details in subsection 4.2). It thus represents a connection between a close-election top-two candidate and a connected firm’s director (through a specific university program) for a given election year.¹⁸

¹⁶The key RDD assumption in close elections is that of imprecise control, i.e., both sides of an election cannot manipulate with precision the result of the election (Lee, 2008, Lee and Lemieux, 2010). While its realistic nature has been debated (Caughey and Sekhon, 2011), de la Cuesta and Imai (2016) summarizes arguments and evidence in favor of its validity (e.g., support of balanced attributes at the threshold by Eggers et al., 2015).

¹⁷John Ashcroft was U.S. Attorney General (2001-2005) after he lost in Missouri’s 2000 close Senate election. Walter Mondale was U.S. Vice President (1977-1981), the Democratic Presidential Candidate in 1984, and narrowly lost in Minnesota’s 2002 Senate race. Ted Stevens was an influential Senator from Alaska (1968-2009), and the longest-serving Republican U.S. Senator when he left office. He faced one of the biggest political corruption cases in recent U.S. history, in which he was first convicted before the case was abandoned.

¹⁸Essentially, this baseline sample construction weighs politician-firm connections by the number of directors facilitating the respective connections. Using alternative sample construction at politician by firm level yields quantitatively similar results

CAR_{idt} is the firm’s CAR, cumulated from day -1 to day 5 around the connected politician’s election in our benchmark regression. This measure covers a week following the election day to fully capture reactions to uncertainties surrounding the result of a close election. $Winner_{pt}$ is an indicator equal to one if politician p wins in election year t (i.e., if the running variable VS_{pt} exceeds the 50% threshold), and zero otherwise. Controls include a first order polynomial of VS_{pt} , separately for winning and defeated candidates.

The RDD specification in (1) employs a bandwidth of 5% of vote share, a rectangular kernel, and linear controls of the running variable. For robustness, we further perform Calonico et al.’s (2014) procedure of RDD bandwidth selection and adjustment,¹⁹ control for various higher order polynomials of vote shares,²⁰ and employ alternative kernel functions.

This strategy estimates the causal effect of having a connected politician in Congress versus out of Congress on the firm’s value, which corresponds exactly to the differential value of Congress connection ΔV as discussed in the model.

Statistical inference. In our benchmark specifications, we estimate standard errors with correction for clustering by politician to address potential autocorrelation in the error terms among firms connected to the same politician. This choice of clustering correction stems from Abadie et al.’s (2020, 2023) recent proposition of a design-based approach to statistical inference in causal empirical analysis of a finite but potentially large population.²¹ Based on Abadie et al.’s (2023) simulation results and recommendation, cluster correction is made at the level of the assignment’s variation, which is by politician in our context. Coarser clustering will likely result in statistical inference that is unnecessarily too conservative.

To further assert the statistical significance of our results, Appendix Table A5 shows that strong statistical significance remains under alternative clustering correction schemes, including clustering by firm or two-way clustering by politician and firm (Cameron et al., 2011). Even for the coarsest level of clustering, that by the 5 elections in our sample, inference by both the clustered wild bootstrap (Cameron et al., 2008) and by Canay et al.’s (2017) Approximate Randomization Test shows that our estimates attain the highest possible level of statistical significance for 5 clusters (p -value around 0.03).²²

(Appendix Table A5).

¹⁹Calonico et al.’s (2014) procedure may lead to drastically different split sample sizes across the many empirical exercises performed on split samples in the paper. Therefore, our benchmark is Lee and Lemieux’s (2010) standard procedure, with sensitivity test on a wide range of bandwidths from 1% to 10% vote shares (Appendix Figure A1).

²⁰Controlling for higher order (second to fifth) polynomials of vote shares yields qualitatively similar results, with higher order coefficients not statistically different from zero. We thus follow Gelman and Imbens’s (2019) recommendation against using higher order polynomials of the running variable when higher order coefficients are not statistically significant.

²¹Abadie et al.’s novel framework takes into account both the traditionally focused sampling-based uncertainty and the suggested design-based uncertainty that arises from the standard potential outcome framework in causal analysis. Instead of the traditional asymptotic approach of infinite superpopulations/data-generating processes, this framework focuses on finite population that could be substantially sampled in the data. In this framework, Abadie et al. (2023) shows that “[...] the sampling process and the treatment assignment mechanism solely determine the correct level of clustering; the presence of cluster-level unobserved components of the outcome variable becomes irrelevant for the choice of clustering level.”

²²In the case of a small number of clusters, the clustered wild bootstrap with t-statistic is recommended as the best inference

Test of RDD’s internal validity. The RDD identification assumption implies that the distribution of any predetermined variable is smooth around the threshold. This implication can be tested on observables, using the same RDD specification as in equation (1) with each predetermined observable on the left hand side (Lee and Lemieux, 2010). Appendix Table A4 reports this test on a wide range of predetermined politician, director, firm, and state characteristics at the 50% vote share threshold. Among the 51 variables considered, only four discontinuities are statistically significant at 10%, no more frequent than what would occur by chance. We thus find no evidence against the RDD’s internal validity in our setting.

Measure of connection. We focus on politician-director connections through their university alumni networks, following Cohen et al. (2008). A firm is defined as connected to a politician in an election year if at least one of its directors and the politician both graduated from the same university program *within one year* of each other.

It is commonly seen that networks among alumni from the same educational institution play an important role in fostering connections and cooperations. For example, in the U.S., gifts towards those institutions, largely through their alumni’s links, amount to 15% of 390 billion of all charitable donations (Giving USA, 2017). Evidence abounds that this type of networks connects businessmen and firms, and influences their decisions (e.g., Cohen et al. 2008, Shue 2013, Fracassi 2017). Notably, in case of mergers and acquisitions, Ishii and Xuan (2014) shows that the stock market pays attention to directors’ education connections between the acquirer and the target. On the other side, Battaglini and Patacchini (2018), Battaglini et al. (2020, 2023) show that the alumni networks of congressmen are crucial in shaping congressmen’s cosponsorship, financial resources, legislative effectiveness, and abstention in Congress.

Regarding arrangements of favoritism considered in this paper, alumni networks can be very useful in enforcing cooperative behaviors and strengthening mutual trust under the threat of social punishment and ostracization from the network, when no legal recourse is possible. Based on Karlan et al.’s (2009) prediction, favor exchange is facilitated by high *network closure*, which is likely the case of alumni networks.

There could be doubts about the realistic nature of connections between pairs of classmates, as most people have only a small number of real friends even among classmates (Leider et al., 2009). As classmate connections imperfectly measure real friendships, the measurement error will produce an attenuation bias that reduces the absolute size of the estimate and its statistical significance. Indeed, we do find that the magnitude of our key estimate decreases when we relax the restriction on the same program or the graduation

method based on Cameron et al.’s (2008) simulation results, later proven in Canay et al. (2021). As there are only 5 clusters from 5 elections from 2000 to 2008, the clustered wild bootstrap procedure creates a comparison population of 2^5 (each cluster is resampled with either a positive or a negative sign), hence the best attainable statistical significance level is $1/2^5 = 0.03125$. Similarly, we also use Cai et al.’s (2023) implementation of Canay et al.’s (2017) Approximate Randomization Test in the case of 5 clusters, which relaxes the theoretical requirement of homogeneity across clusters for the clustered wild bootstrap, and obtain similar results. In both cases, the actual estimate is always the most extreme among the 2^5 comparison values.

years (subsection 6.1). This suggests that the effect of real friendships can then be even larger than that found in this paper. Besides, even mere acquaintances among classmates can be essential in the development of relationships after college or graduate school by providing mutual trust, common ground in communication, and common access to the same social network. Former classmates are also likely to later develop a strong connection, even if they were not close friends at school.

Homophily and shared preferences. The RDD framework allows us to identify the links between firms and elected congressmen as an almost-random treatment. However, the full networks of classmates and alumni, including firms’ links to both elected congressmen and defeated candidates, are still considered as exogenous. Hence, while our empirical design rules out direct reverse causality, the mechanism at work may still be due to homophily (McPherson et al., 2001), whereby unobserved shared characteristics influence same school attendance by politicians and businessmen, as well as their future outcomes. For example, a politician and a director may be both interested in military studies, and decided to join a university that specializes in military studies; years later, the election of the former has the potential to affect the latter’s firm value through new defense policies, without passing through the social network. While the RDD still correctly identifies the effect of political connection defined by former classmate links, it is harder to claim that the effect comes directly from the social network links.

We propose to disentangle the homophily mechanism by using alumni links, as homophily should matter similarly between alumni links and classmate links. This approach also addresses the mechanism of shared preferences, whereby politicians and businessmen from the same university tend to align their preferences (Algan et al., 2023). The corresponding results in subsection 6.2 show that the mechanisms by homophily and by shared preferences cannot account for the estimated adverse effect of higher office.

4 Data description

4.1 Data sources and construction

Close elections. We obtain Congress election results from the Federal Election Commission (FEC) website. We calculate the margin of votes between the top two candidates in each election, and focus on the sample in which this margin is below 5% (i.e., when the vote shares between the top two candidates are between 47.5% and 52.5%.) The sample covers 126 out of 128 close elections during the period between 2000 and 2008.²³ Sensitivity checks using alternative sample restrictions ranging from 1% to 10% vote margin, as well as those suggested by Calonico et al.’s (2014) procedure, produce highly similar results.

²³We avoid the period after the Supreme Court’s decision in *Citizens United vs. FEC*, which changed fundamentally the way firms could contribute to electoral campaigns.

Politicians. We construct a unique dataset of the education and career of top two candidates in the considered close elections through a long process of hand-collecting their biographical records from Lexis-Nexis, which contain active and inactive biographies in Who’s Who publications. Our scope of search includes (i) Who’s Who in American Politics, (ii) Member Biographical Profiles – Current Congress, (iii) World Almanac of U.S. Politics, and (iv) The Almanac of American Politics. Each candidate’s biography includes the candidate’s employment history, all undergraduate and graduate degrees attained, years of graduation, and the awarding institutions. For biographies unavailable in Who’s Who, especially for defeated candidates, we search the Library of Congress Web Archives which cover multiple versions of Congress election candidates’ websites archived at different moments during the electoral campaign. This comprehensive process allows us to collect sufficient data for 92% of the politicians on our search list.

Directors. We obtain biographical information and past education history for directors and senior company officers from BoardEx. The data include board directors and senior company officers in active and inactive firms from 2000 onwards, and comprehensive information on their employment history, educational background (including degrees attained, graduation years, and awarding institutions), remuneration, and participation in social and charity organizations. There are 55,353 board directors in 6,771 U.S. publicly listed firms covered in BoardEx between 2000 and 2008.

Firm and stock data. We match our data with stock data from the Center for Research in Security Prices (CRSP), and obtain information on firm characteristics and financial performance from Compustat. Section 3 describes the calculation of our main outcome of interest, the CAR around election events, which maps directly to changes in the firm’s value of connection.

4.2 Baseline sample

Our final baseline sample includes 1,714 observations at the politician-by-director-by-firm-by-election year level, covering 123 close elections, 165 politicians, 1,136 directors, and 1,234 firms between 2000 and 2008 (Table 1). These 123 close elections cover a total of 40 U.S. states and have an average win/loss margin of 2.53%. Among them, there are 23 Senate elections, 100 House elections, and 63 elections for which both top two candidates are included in the baseline sample.

The 165 politicians record 100 wins and 86 defeats (19 of them experience multiple close elections). They are connected to 1,136 directors in 1,234 firms through 121 academic institutions. On average, each politician is connected to 7.2 directors and 9.1 firms in a close-election year. Undergraduate study is the most prevalent type of connection between directors and politicians: 72.3% of politicians and 87.4% of directors are connected through their undergraduate studies, having graduated from the same school in the same

Table 1: BASELINE SAMPLE’S DESCRIPTIVE STATISTICS

| Election year | 2000 | 2002 | 2004 | 2006 | 2008 | 2000-2008 |
|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-----------|
| No. of close elections | 24 | 23 | 12 | 36 | 28 | 123 |
| % of close elections | 85.7% | 88.5% | 75.0% | 92.3% | 93.3% | 88.5% |
| % of all congressional elections | 5.1% | 4.9% | 2.6% | 7.7% | 6.0% | 5.3% |
| No. of Senate elections | 8 | 4 | 5 | 3 | 3 | 23 |
| No. of House elections | 16 | 19 | 7 | 33 | 25 | 100 |
| No. of states covered | 17 | 17 | 12 | 25 | 20 | 40 |
| Avg. win/loss margin | 2.48% | 2.73% | 3.74% | 1.93% | 2.79% | 2.53% |
| No. of politicians | 38 | 32 | 19 | 56 | 41 | 165 |
| % of all election candidates | 1.6% | 1.5% | 0.9% | 2.6% | 1.9% | 2.1% |
| No. of winning candidates | 18 | 17 | 11 | 33 | 21 | 100 |
| No. of defeated candidates | 20 | 15 | 8 | 23 | 20 | 86 |
| Avg. no. of connected directors | 7.58 | 5.94 | 7.11 | 7.59 | 7.27 | 7.18 |
| Avg. no. of connected firms | 9.26 | 6.94 | 9.26 | 10.09 | 9.07 | 9.07 |
| No. of connected directors | 235 | 190 | 135 | 415 | 294 | 1,136 |
| Avg. no. of connected politicians | 1.23 | 1.00 | 1.00 | 1.02 | 1.01 | 1.05 |
| Avg. firms per director | 1.23 | 1.21 | 1.33 | 1.33 | 1.27 | 1.28 |
| No. of connected firms | 275 | 216 | 173 | 510 | 353 | 1,234 |
| % of all listed firms | 3.8% | 3.4% | 2.9% | 8.6% | 6.2% | 12.5% |
| % of total market value | 8.9% | 4.7% | 6.5% | 18.2% | 6.8% | 9.0% |
| Avg. board size | 14.8 | 14.8 | 12.3 | 12.3 | 11.8 | 12.7 |
| Avg. no. of connected directors | 1.05 | 1.06 | 1.03 | 1.08 | 1.05 | 1.06 |
| Avg. no. of connected politicians | 1.28 | 1.03 | 1.02 | 1.11 | 1.05 | 1.10 |
| No. of academic institutions | 39 | 32 | 20 | 57 | 43 | 121 |
| No. of politician \times director \times firm \times election year observations | 357 | 229 | 179 | 572 | 377 | 1,714 |

Notes: This table reports the descriptive statistics of the baseline sample of 1,714 observations at the politician-by-director-by-firm-by-election year level. Close elections are those with a less-than-5% margin of votes between the top two candidates. Politicians and directors are considered connected if they were enrolled in the same university, campus, and degree program combination within one year of each other.

university within one year of each other (Appendix Table A2). The next most common types of connection are law and business school programs.

On average, each firm in our sample is connected to 1.1 close-election politicians through 1.1 directors in an election year. These firms cover a wide range of geographies and industries, with headquarters in 49 U.S. states and operations in 67 SIC 2-digit industries. They are on average larger than firms in the Compustat universe (Appendix Table A3).

5 Empirical results

5.1 The adverse effect of Congress-level connection on favoritism

To evaluate Proposition 1’s theoretical prediction of a possible adverse effect of a politician’s promotion on connected firms’ value, we first estimate the key quantity $\Delta V = V_2 - V_1$, the average differential value to firms when their connected politicians win versus lose a seat in Congress. Table 2 relates stock price cumulated abnormal returns (CAR) of connected firms around the election day (from day -1 to day 5) to the connected politician’s election result using the baseline RDD specification in equation (1) on the full sample of all firms connected to all top-2 politicians in close Congress elections from 2000 to 2008.

Table 2: ADDED VALUE OF CONGRESS-LEVEL CONNECTION TO FIRMS USING RDD

| Specification | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | |
| | Benchmark | Third-order | CCT | Additional controls | | | Winner/loser subsamples | |
| Winner | -0.032*** (0.008) | -0.034*** (0.012) | -0.028*** (0.011) | -0.030*** (0.009) | -0.036*** (0.012) | -0.030*** (0.011) | | |
| Mean | | | | | | | -0.013** (0.006) | -0.019*** (0.005) |
| Politician sample | | | | | | | Winners | Losers |
| 3rd order polynomials | | X | | | | | | |
| Politician controls | | | | X | | | | |
| Director controls | | | | | X | | | |
| Firm controls | | | | | | X | | |
| Election year FEs | | | | X | | | | |
| University FEs | | | | | X | | | |
| Industry FEs | | | | | | X | | |
| Observations | 1,714 | 1,714 | 559 | 1,714 | 1,714 | 1,468 | 943 | 771 |
| Politicians | 165 | 165 | 66 | 165 | 165 | 158 | 93 | 84 |
| Directors | 1,136 | 1,136 | 415 | 1,136 | 1,136 | 1,004 | 677 | 566 |
| Firms | 1,234 | 1,234 | 481 | 1,234 | 1,234 | 1,063 | 783 | 669 |

Notes: This panel reports the benchmark average differential value of Congress-level connection to firms ΔV using the baseline RDD specification in equation (1) (column 1). Column (2) additionally controls for a third order polynomial of vote shares (separately for winners and losers). Column (3) uses Calónico et al.'s (2014) procedure of bandwidth selection and adjustment with a triangular kernel. Column (4)'s politician controls include gender, age, age², party affiliation, incumbency dummy, Senate election dummy, ln(total campaign contribution), and ln(number of contributors). Column (5)'s director controls include gender, age, age², executive director dummy, and director tenure. Column (6)'s firm controls include age, age², ln(total assets), ln(total sales), ln(employment), capital expenditure/assets, return on assets, book leverage ratio, market-to-book ratio, and Tobin's Q. Columns (7) and (8) report average CAR(-1, 5) among firms connected to winners and firms connected to losers, after controlling for vote shares. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Column 1 reports the baseline RDD specification (1), in which we control linearly for vote shares separately for winners and losers. The resulting estimate indicates that connections to the winners in close congressional elections generate stock price reactions that are on average 3.2 percentage points *below* those generated by connections to the losers, i.e., ΔV is -3.2% of firm value. In our sample, it is equivalent to 30% of the standard deviation of CARs, and \$21 million for the median firm's market value (\$656 million).²⁴ This discontinuity around the 50% vote share threshold is visualized in Figure 1's Panel A. The estimate is statistically significant at 1% and robust to controlling for cubic polynomials of vote shares (column 2) (further illustrated in Appendix Figure A2) and to applying Calónico et al.'s (2014) procedure (column 3).²⁵

The estimate is largely unaffected by the inclusion of predetermined covariates (Lee and Lemieux, 2010), such as politician characteristics and election year fixed effects in column 4, director characteristics and university fixed effects in column 5, and firm characteristics and industry fixed effects in column 6. The estimates reported in those columns, all of which statistically significant at 1%, are very close to the baseline effect in column 1. As the RDD identification guarantees that election outcome is as good as randomly assigned to treated and control groups around the 50% vote share threshold, the inclusion of any predeter-

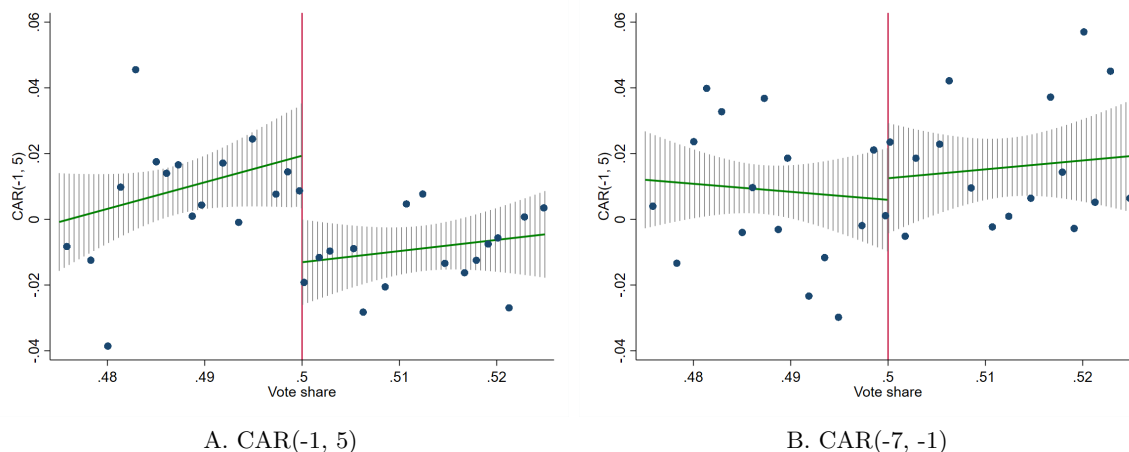
²⁴In comparison to relevant event studies, Faccio (2006) reports an average effect of 1.4 percentage points among worldwide firms following an event of new political connection, while Goldman et al. (2009) show an effect of 9.0 percentage points in difference between Republican- and Democrat-connected firms around the 2000 presidential election.

²⁵In Figure 1, there may be a slight concern of a number of irregular observations around 48% vote share. They are indeed not relevant to our results: if we drop a large group of observations around this point, the results remain almost identical and similarly statistically significant. (We thank Ivan Canay for this suggestion to address those aberrant points.)

mined control variable should not significantly alter the estimate of the treatment effect. Put differently, in the baseline RDD specification, the estimated differential value of political connections is not confounded by any politician-, director-, firm-, year-, university-, or industry-specific unobservables.

Column 1’s main estimate is further decomposed into the market reactions among firms connected to winners (column 7) and losers (column 8) (both controlling for vote share, as in equation (1)). The market reaction to loser-connected firms is stronger,²⁶ hinting that the corresponding stock-market-based predicted probabilities of elections may have been slightly biased towards eventual winners, which cannot invalidate our cross-sectional RDD identification (subsection 3.1), but which would have biased event-study strategies.

Figure 1: DISCONTINUITY OF MARKET REACTION AT 50% VOTE SHARE THRESHOLD



Notes: This RDD figure plots connected firms’ cumulative abnormal returns (CARs) against the connected politician’s vote share around the 50% threshold, including separately fitted linear functions of vote share on either side of the threshold (Equation (1)) and their 95% confidence intervals. **Subfigure A** shows the estimated discontinuity of -3.2% on CARs between days -1 and 5 around the election. **Subfigure B** shows balanced CARs before the election between days -7 and -1. 16 dots on each side of the threshold represent approximately equal-sized bins of close elections.

Robustness. To examine if this discontinuity is sensitive to our baseline bandwidth choice, we run a series of sensitivity tests using alternative sample restrictions ranging from 1% to 10% election vote margin. Appendix Figure A1 shows that throughout this wide range of bandwidths, the resulting coefficients remain quantitatively similar to our benchmark estimate. Appendix Table A5 further exhibits our results’ robustness to using alternative observation units (which affects weighting schemes), clustering schemes, kernel functions, Calonico et al.’s (2014) sample selection, and methods to compute abnormal returns.

The RDD implications of smooth distributions of predetermined observable variables are further tested in Appendix Table A4 (as explained in section 3.2). In particular, Figure 1’s Panel B shows no discontinuity in the CARs from day -7 to day -1.

²⁶However, the difference between those columns is not statistically significant.

Alternative event windows. Table 3 investigates the impact of election outcome on CARs calculated in various windows before and after the election event. As expected from the close election design, in columns 1 and 2, we find no differences in pre-election CARs between firms connected to eventual winners and those connected to eventual losers, using either a window from the pre-election Friday to Monday (event days -2 and -1) or one that includes one more week (from day -7 to day -1).

Column 3 shows that the main effect already attains -1.9% as soon as day 1 (significant at 1%), and extends to -3.2% after day 5 (the benchmark result, replicated in column 4), implying that market reaction from day 1 to day 5 shows a significant post-election effect (column 5). This may reflect either unresolved uncertainties surrounding very close elections,²⁷ or sluggish market reactions. In the latter case, one can create a portfolio based on election results on day 1 that shorts on firms connected to closely elected politicians and longs on those connected to closely defeated ones (equal weights by connections). Over (1, 5), this portfolio yields a return of 2.2% (column 5). Finally, column 6 reports an insignificant, largely noisy estimate for the following 4 weeks, suggesting that the market has fully priced in election outcome news after day 5.

Table 3: EFFECT IN DIFFERENT EVENT WINDOWS

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------|--------------------------------|-------------------|----------------------|----------------------|---------------------|------------------|
| | Dependent variable: CAR | | | | | |
| | Pre-election | | Around-election | | Post-election | |
| Event window | (-7, -1) | (-2, -1) | (-1, 1) | (-1, 5) | (1, 5) | (6, 25) |
| Winner | 0.007 (0.011) | -0.002 (0.007) | -0.019*** (0.006) | -0.032*** (0.008) | -0.022** (0.008) | 0.013 (0.022) |
| Observations | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 |
| Politicians | 165 | 165 | 165 | 165 | 165 | 165 |
| Directors | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 |
| Firms | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 |

Notes: This table reports the effect of Congress-level connection on firm’s cumulative abnormal returns (see subsection 4.1) in different event windows using the baseline RDD specification in equation (1). These include pre-election event windows in columns (1) and (2), around-election event windows in columns (3) to (5), and post-election event windows in columns (6) and (7). All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

In sum, we find robust evidence of Proposition 1’s predicted adverse effect of higher offices on favoritism, as friends in higher positions bring *less* value to connected firms ($V_2 < V_1$).

5.2 Scrutiny and the adverse effect of Congress connection

We move on to investigate the role of scrutiny, both in explaining (Proposition 1) and in shaping (Proposition 2) the adverse effect of higher offices on favoritism. We focus on the media as a key determinant of scrutiny, as the political economy literature since Besley and Burgess’s (2002) seminal work has provided ample evidence how media coverage of politics influences voters’ knowledge and behaviors, and hence politicians’

²⁷In very tight elections, e.g., the Minnesota 2008 Senate race deadlock between Al Franken and Norm Coleman, the results could still be uncertain after election day, and news on precise vote counts continue to be meaningful in the following week.

accountability (Snyder and Strömberg, 2010, Campante and Do, 2014, Gentzkow et al., 2011).²⁸

Explanation by change in scrutiny. Proposition 1’s prediction of the adverse effect of higher office on favoritism relies on the key condition that, comparing elected congressmen with their defeated opinions, scrutiny tightens even more than the gain in power, namely $\frac{\gamma_2}{\gamma_1} > \frac{\beta_2}{\beta_1}$. Appendix Table A6 provides evidence that media scrutiny is markedly higher for winners than losers ($\frac{\gamma_2}{\gamma_1} \gg 1$). We measure media attention by the number of search hits for the politician’s name on his state’s newspapers based on Newslibrary.com, normalized by the number of search hits for the neutral keyword “September.” On average, elected congressmen experience an increase in media attention, while defeated candidates experience a reduction of similar magnitude. The difference between these opposite changes, estimated using the baseline RDD specification, is large and statistically significant. There is practically no pre-election difference in media presence between winners and losers in the considered close elections, while the post-election media presence difference comes immediately in the first two years, for challengers and incumbents alike. Furthermore, winners’ increased media attention is driven solely by challengers, while incumbent winners only maintain the level of pre-election newspaper attention. Symmetrically, losers’ reduction in media attention is mostly driven by incumbents losing their Congress seats.

Exogenous determinants of scrutiny and the adverse effect of Congress connection. First, we examine the role of scrutiny by using the natural experiment of the entry of Craigslist (henceforth CL), the world’s largest online platform for classified ads, across U.S. states. Based on Djourelouva et al. (2023), CL’s entry crowds out local newspapers, lowers their coverage of politics, decreases their readership, and ultimately undermines voters’ electoral participation.²⁹ We thus consider CL’s entry as an exogenous proxy for γ_1 , namely a direct proxy for local media scrutiny by state and year. We consider CL’s presence in a state since at least two years before the election, and CL’s penetration, measured as the share of counties where CL has entered since at least two years before the election. The lag period of two years reflects the time needed for CL’s entry to fully affect local newspapers (Djourelouva et al., 2023). We enhance specification (1) with the interactions of a measure of CL’s entry with all right-hand side variables, including the winner indicator $Winner_{pt}$ and the running variables of vote shares $VS_{pt} \mathbb{1}_{\{VS_{pt} \geq 50\%\}}$ and $VS_{pt} \mathbb{1}_{\{VS_{pt} < 50\%\}}$. This specification effectively amounts to a Difference in Discontinuity approach.

This approach brings several advantages. First, CL’s entry has been argued as largely exogenous to local

²⁸The recent Handbook of Media Economics (Anderson et al., 2016) surveys a broad range of topics on the media’s fundamental role in shaping governance. See in particular Strömberg’s (2016) chapter on political accountability.

²⁹Djourelouva et al. (2023) also finds that CL’s entry enhances extreme candidates’ chances and reduces split-ticket votes, an indicator that voters increasingly use national cues instead of local ones. Those findings all point to less media scrutiny due to local newspaper closure. Gao et al. (2020) also uses this natural experiment to account for newspaper closure.

political conditions (Djourelouva et al., 2023, Gao et al., 2020), hence it avoids the apparent issue of more direct measures of media scrutiny, such as newspapers’ coverage of politics or voters’ interest in politics. Second, CL’s entry brings a longitudinal dimension to measure meaningful changes in media scrutiny across states, which is a strong advantage over other popular measures discussed in the literature that provide mostly meaningful cross-sectional variations (e.g., based on Snyder and Strömberg’s (2010) newspaper’s congruence measure or Campante and Do’s (2014) measure of capital isolation.) Most of CL’s entry happened over the period 2000-2010, which coincides with our sample. Its longitudinal nature allows us to also control for an interaction between the winner indicator $Winner_{pt}$ and a set of state fixed effects, which can take out any state-specific time-invariant characteristics that may influence the adverse effect of Congress connection.

Table 4’s columns 1 to 6 show various results using this strategy. Data on CL’s entry come from Djourelouva et al. (2023), either based on links scraped from the Internet Archive at <https://www.archive.org> that fully cover all counties (columns 1 to 3), or from CL’s official sources on a number of key counties (columns 4 to 6). Columns 1 and 4 show that higher CL’s penetration in a state leads to a stronger adverse effect of Congress connection. It means that, as local media scrutiny decreases, the adverse effect of Congress connection on firms increases in magnitude $|\Delta V|$. Columns 2 and 5 further show that this effect remains equally strong even in presence of the interactions between the winner indicator $Winner_{pt}$ and a set of state fixed effects, which controls for any time-invariant state characteristics’ influence on the outcome. Finally, in columns 3 and 6 we replace CL’s penetration with CL’s presence, a coarser variable. The results become noisier, but remain sizable and statistically significant at 10%.

Second, we build on Campante and Do’s (2014) result that states with an isolated capital city have less local media scrutiny of state politics.³⁰ We take two simple measures of state capital primacy from the 1980 census as exogenous determinants for local media scrutiny, namely the indicator whether the state capital city is its largest city, and the share of capital city population of the state population.³¹ Columns 7 and 8 show results from specification (1) enhanced with the right-hand side’s interactions with those proxies. They are consistent with Proposition 2’s prediction that weaker local scrutiny (when the capital city is more isolated) is associated with a greater magnitude of the adverse effect of Congress connection on firms $|\Delta V|$.

We further explore the potentially non-linear dependence of the adverse effect of Congress connection on those determinants of local media scrutiny in Figure 2, using semi-parametric versions of the specifications used in columns 2 and 8 (the methodology is detailed in Appendix C.2). The magnitude of the negative adverse effect is clearly decreasing in CL’s penetration (lower media scrutiny), as shown in Subfigure A,

³⁰The finance literature has used this result to build exogenous proxies for state-level governance, such as in Smith’s (2016) analysis of corruption and corporate financial policies.

³¹Demographic measures are generally highly persistent (Campante and Do, 2014), so we could only make use of their cross-state variation, instead of their longitudinal form, as in the case of CL’s entries.

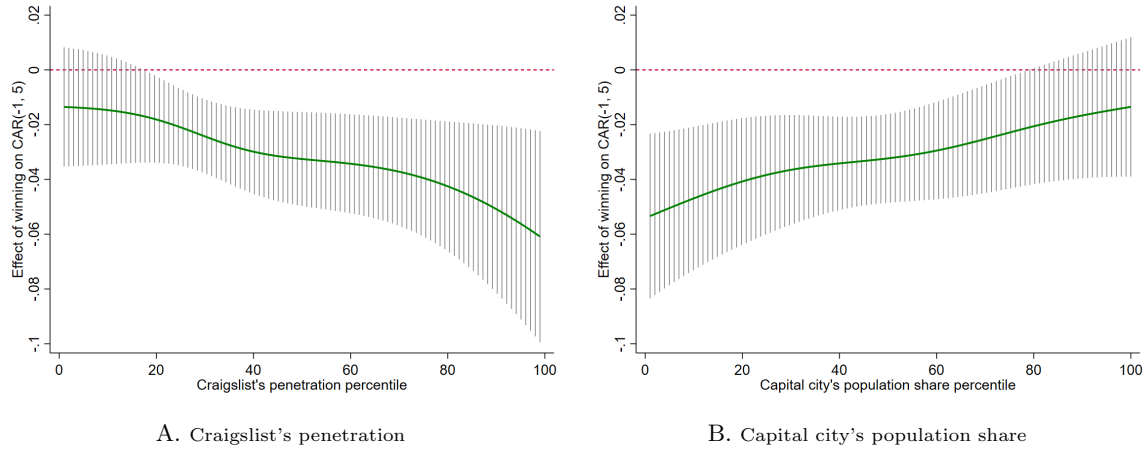
Table 4: EFFECT BY EXOGENOUS SHIFT TO LOCAL MEDIA PRESENCE

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------------|--------------------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------------|----------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | |
| Local media shifter | Craigslist's presence in state | | | | | | Capital city's population | |
| Winner | -0.014 (0.009) | | | -0.017* (0.009) | | | -0.039*** (0.008) | -0.053*** (0.013) |
| W × Craigslist's penetration | -0.179** (0.078) | -0.184** (0.072) | | -0.136** (0.065) | -0.130** (0.062) | | | |
| W × I(Craigslist) | | | -0.055* (0.029) | | | -0.048* (0.028) | | |
| W × I(Capital is largest city) | | | | | | | 0.030* (0.018) | |
| W × Capital primacy | | | | | | | | 0.558** (0.273) |
| Craigslist data source | Scraped | Scraped | Scraped | Official | Official | Official | | |
| Election year FEs | X | X | X | X | X | X | | |
| Winner × State FEs | X | X | X | X | X | X | | |
| Observations | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 |
| Politicians | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 |
| Directors | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 |
| Firms | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 |

Notes: This table reports how the adverse effect of Congress-level connection on firms ΔV depends on determinants of local media scrutiny. Each column's specification builds on the RDD specification in equation (1), and further includes interactions between a determinant of local media scrutiny and the right hand side variables in (1). Craigslist data are from Djourelova et al. (2023). *Craigslist's penetration* measures the share of counties where Craigslist has entered at least two years before the election month. *I(Craigslist)* is an indicator that Craigslist has been present in the state at least two years before the election month. *I(Capital is largest city)* is an indicator that the state's capital is also its largest city in 1980. *Capital primacy* is the state capital's 1980 population share of the state population. Columns (1) to (3) calculate Craigslist's entry from Craigslist links scraped from the Internet Archive (<https://archive.org>), and have full coverage. Columns (4) to (6) use Craigslist's official entry data, and have partial coverage. All standard errors are clustered by politician. *** denotes statistical significance at 1% level, ** 5% level, * 10% level.

and increasing in capital primacy (higher media scrutiny), as shown in Subfigure B, both as predicted by Proposition 2.

Figure 2: EFFECT BY DETERMINANTS OF LOCAL MEDIA SCRUTINY



Notes: This figure plots semi-parametric estimates of the differential value of Congress-level connection to firms ΔV as a function of the percentiles of the X-axis variable, together with their 95% confidence intervals. In **Subfigure A**, the X-axis variable is the share of counties per state where Craigslist has entered for at least 2 years. In **Subfigure B**, the X-axis variable is the population share per state of the state capital city. The point estimate at each value of the X-axis variable is obtained from the baseline RDD regression in equation (1), weighted by a Gaussian kernel function of the percentile on the X-axis with a bandwidth equal to 20% (details in Appendix C.2). Standard errors are clustered by politician.

We have so far established how the adverse effect of Congress connection on firms varies by two exogenous

determinants of scrutiny. Appendix Figure A3 shows similar patterns for two direct proxies of voters’ scrutiny, including the share of voters with strong interest in election and the share of voters following media coverage of election, constructed from the American National Election Studies (ANES) over 2000-2008, and a measure of corruption by state from internet search hits for “corruption” near the state’s main city (following Saiz and Simonsohn’s (2013) approach of “downloading wisdom from online crowds”). Overall, the magnitude of the adverse effect of Congress connection increases in states with more scrutiny and less corruption.

Appendix Table A7 further provides additional evidence of the main specification (1) in different subsamples split by proxies of media scrutiny, including the previous measures of voters’ interest in politics and voters’ attention to media, Campante and Do’s (2014) Average Log Distance to capital city, plus alternative measures of corruption based on conviction cases (Glaeser and Saks, 2006) and search hits by city name or state name. The empirical patterns of those estimates of ΔV largely follow Proposition 2’s prediction on the role of scrutiny.³²

Those results do not rule out the role of the variations of power, which we will examine more directly in subsection 5.4. One may also ask whether variations in power can fully explain Proposition 1’s main adverse effect. For example, one may posit that, first-term Congress members may have much less power to give favor, compared with seasoned state-level politicians (i.e., $\frac{\beta_2}{\beta_1} \ll 1$). Appendix Table A8 offers some insight into this possibility by replicating Table A7 in the subsamples of challengers versus incumbents. While the estimates and precision are weaker for incumbents than for challengers, the main pattern in Table A7 remains similar for both groups in Table A8, suggesting that the role of scrutiny remains important in determining the adverse effect of higher office.

5.3 Career concern

As scrutiny affects politicians’ career prospects, it likely matters more in the early stage of their career. Proposition 1 highlights this intuition in a form of weak monotonicity of ΔV over the course of a political career, in that it likely starts out below zero and may eventually moves above zero late in the career. This subsection verifies this prediction in the sample of challengers to avoid the potentially confounding effect of tenure and accumulated power in Congress.

Column 1 of Table 5 shows that the adverse effect of connection to a congressman fades out with the politician’s age, as the coefficient of the interaction between $Winner_{pt}$ and politician’s age (normalized at the median age of 56) is positive and statistically significant at 5%. The coefficients imply an effect of -3.4% at age 56, which would fade to zero around age 67. Columns 2 and 3 show that the effect’s magnitude is much larger among younger-than-median politicians (4.8%) and smaller among older ones (2.6%), although

³²On the other hand, we do not find ΔV to vary with firm’s distance to DC, suggesting that greater geographical distance between firms and connected congressmen is not a key channel behind the effect.

the difference is not statistically significant. Columns 4 to 7 further report the estimated benchmark effects across the four quartiles of politician age that follow a gradually increasing pattern. Especially in the top quartile, the estimate becomes positive, although not statistically significant.

A very similar pattern of estimates is also found in the full sample of all politicians, as shown in Appendix Table A9. Appendix Figure A4 further illustrates semi-parametric estimates of ΔV as a function of politician’s age that goes towards zero as age increases, for both the full sample of politicians and that of challengers only (methodological details in Appendix C.2).

Table 5: EFFECT BY POLITICIAN’S AGE AMONG CHALLENGERS

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-----------------------------------|--------------------------------|----------------------|-------------------|---------------------|----------------------|-------------------|------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | |
| Politician sample | All | Below med. | Above med. | Age Q1 | Age Q2 | Age Q3 | Age Q4 |
| Winner | -0.034*** (0.009) | -0.048*** (0.012) | -0.026 (0.018) | -0.052** (0.026) | -0.041*** (0.013) | -0.030 (0.028) | 0.003 (0.034) |
| $W \times (\text{Pol. Age} - 56)$ | 0.003** (0.001) | | | | | | |
| <i>Difference</i> | | -0.022 (0.021) | | | | | |
| Observations | 1,121 | 698 | 423 | 373 | 325 | 236 | 187 |
| Politicians | 110 | 83 | 27 | 52 | 31 | 14 | 14 |
| Directors | 801 | 532 | 291 | 294 | 240 | 159 | 136 |
| Firms | 922 | 628 | 371 | 344 | 305 | 216 | 169 |

Notes: This table reports how the differential value of Congress-level connection to firms ΔV varies by the politician’s age, using the baseline RDD specification in equation (1), for the subsample of firms connected to challenger candidates. Column (1) interacts the treatment (i.e., winning the election) with the politician’s age (relative to the median of 56). Columns (2) and (3) compare subsamples of younger (at most 56) and older (above 56) politicians. Columns (4) to (7) consider the subsamples of politicians in age quartile 1 to 4 as determined with respect to the full baseline sample. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

5.4 Determinants of firms’ benefits

In this section, we turn to study firm, director, politician, and relationship characteristics that influence firms’ potential benefits from political connections (β ’s) and their implications on ΔV . As distinguished in the model, we consider factors that affect β_1 and β_2 separately and those that affect both of them in the same direction.

Politician’s experience. Table 6 reports how ΔV varies with the politician’s type and level of experience. Columns 1 and 2 first compare the differential values of connections to challengers versus incumbents in Congress elections. One would expect β_2 to be quite small for challengers (power to give favor from a newly elected Congress member), but considerably larger for incumbents thanks to their empowerment and entrenchment in Congress. As expected from the theory, the magnitude of the differential value among challengers is larger than that among incumbents (the difference is statistically significant at 10%).

We also categorize politicians based on their career prior to the election: those in a position in state-level politics and those with previous positions in the House or in the Senate. Among those categories, we expect

Table 6: EFFECT BY POLITICIAN’S PRIOR EXPERIENCE

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------------------|--------------------------------|--------------------|----------------------|--------------------|----------------------|----------------------|
| | Dependent variable: CAR(-1, 5) | | | | | |
| Politician sample | Challengers | Incumbents | State | House | Senate | All |
| Winner | -0.043*** (0.009) | -0.013 (0.014) | -0.048*** (0.013) | -0.010 (0.016) | 0.086*** (0.017) | -0.048*** (0.013) |
| W × Politician’s experience | | | | | | 0.036** (0.015) |
| <i>Difference</i> | | -0.030* (0.017) | | -0.038* (0.020) | -0.134*** (0.021) | |
| Observations | 1,121 | 593 | 574 | 508 | 129 | 1,211 |
| Politicians | 110 | 64 | 58 | 58 | 12 | 124 |
| Directors | 801 | 440 | 436 | 372 | 103 | 838 |
| Firms | 922 | 517 | 506 | 438 | 127 | 934 |

Notes: This table reports how the differential value of Congress-level connection to firms ΔV varies by the politician’s prior experience, using the baseline RDD specification in equation (1). Column (1) considers the subsample of all challengers and column (2) – incumbents. Column (3) considers the subsample of politicians with immediate prior position in state politics; column (4) – politicians with prior experience as House members (but not in state politics or the Senate); and column (5) – politicians with prior experience as Senators. Column (6) interacts the treatment with the politician’s level of experience, which ranges from 0 to 2 and corresponds to the subsamples in columns (3) (level of experience = 0) to (5) (level of experience = 2). Row *Difference* reports the difference in ΔV between columns (1) and (2), and between column (3) and each of the columns from (4) to (5). All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

that the ratio β_2/β_1 is increasing in this order. Indeed, coming from state politics, one should expect β_1 to be relatively large and β_2 to be small. In contrast, those who have already been in Congress should naturally enjoy a very large β_2 (likely larger in the Senate than the House), but a small β_1 . Based on this order, the pattern of the estimated differential effect matches with the theoretical predictions, as shown in columns 3 to 6. From columns 3 to 5, the estimate increases from strongly negative to less negative, to even a positive estimate among senators.³³ When we combine those estimates in a specification with an interaction term with the order among those cases in column 6, the coefficient of the interaction term is positive and statistically significant at 5%.³⁴

Firm size. We further exploit firm size as a key determinant of β_1 and β_2 . While Table 2’s main results show that on average firms benefit less from connections to politicians in higher positions, this pattern may reverse for very large firms which stand to benefit more from federal-level connections (as a larger β_2 would increase ΔV). In contrast, smaller firms operating mostly within the politician’s state likely experience a larger β_1 , implying a smaller (more negative) ΔV . Thus, as β_2/β_1 is likely increasing in firm size, so is ΔV . This pattern is confirmed in Figure 3’s Subfigure A, which plots the semi-parametric estimate of ΔV as a function of firm size (methodological details in Appendix C.2).

Appendix Table A11 provides more details in this relationship, with a positive estimate of ΔV at 1.1% (column 2, not statistically significant) among the largest firms (the larger half of S&P 500 firms) but at

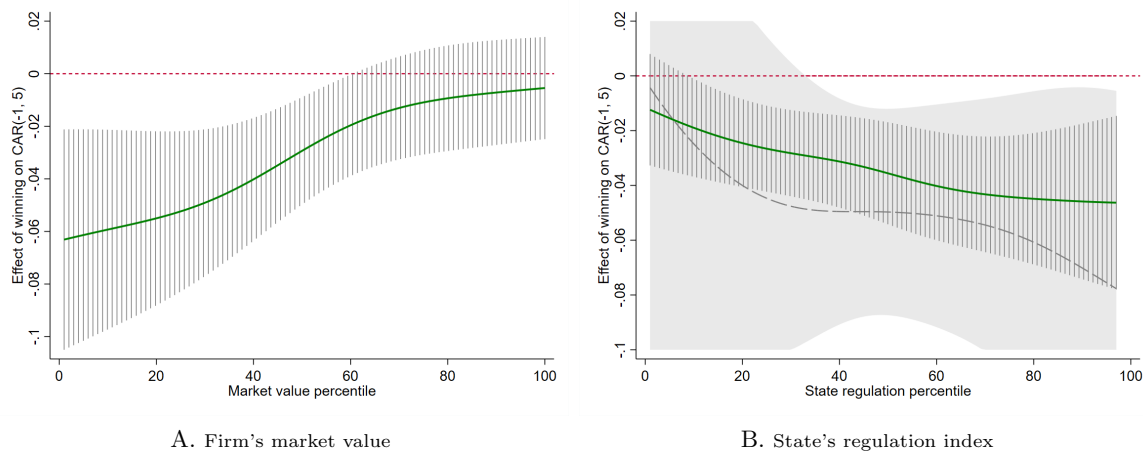
³³This finding of a positive differential value among connections to senators partly vindicates Prediction 1’s first point in case power trumps scrutiny. Our companion paper Do et al. (2021) also shows the positive net value of firms’ connections to elected state governors.

³⁴Unlike those variations by political power, we did not find much difference of the adverse effect between Democrats and Republicans or between the President’s party or the opposition (Appendix Table A10).

-3.8% among the rest (column 3). The effect is even stronger at -4.7% (column 4) for local firms, i.e., those headquartered in the politician’s state or within 500km of its capital.³⁵

Column 1 further helps quantify the adverse effect’s variability by firm size. Since the market value used in the interaction term is centered at its median, the coefficient of *Winner* represents the effect of -0.031 at the median market value of around \$656 million, equivalent to $-\$20.3$ million. At the mean market value of \$6,367 million, the effect is close to zero at $-0.031 + \ln(6367/656) \times 0.012 \sim 0.000$. At the low end, for a firm valued at \$100 million, the effect is $-0.031 + \ln(100/656) \times 0.012 \sim -0.054$, equivalent to $-\$5.4$ million.

Figure 3: EFFECT BY FIRM SIZE AND STATE-LEVEL REGULATIONS



Notes: This figure plots semi-parametric estimates of the differential value of Congress-level connection to firms ΔV as a function of the percentiles of the X-axis variable, together with their 95% confidence intervals. The X-axis variable is firm’s market value in **Subfigure A**, and state’s regulation index in **Subfigure B**. In Subfigure B, the dashed line represents the estimate among local firms only. The point estimate at each value of the X-axis variable is obtained from the baseline RDD regression in equation (1), weighted by a Gaussian kernel function of the percentile on the X-axis with a bandwidth equal to 20% (details in Appendix C.2). Standard errors are clustered by politician.

State regulations. State-level connections are likely more beneficial to firms (larger β_1) in states with more regulations, where there is greater potential to grant benefits to connected firms on a discretionary basis. This implies a smaller (more negative) differential value of higher-office connections ΔV . Figure 3’s Subfigure B confirms this pattern with a plot of the semi-parametric estimate of ΔV as a function of state-level regulation, using the 1999 state-level regulation index from Clemson University’s Report on Economic Freedom (variable description in Appendix Table A1, methodological details in Appendix C.2).

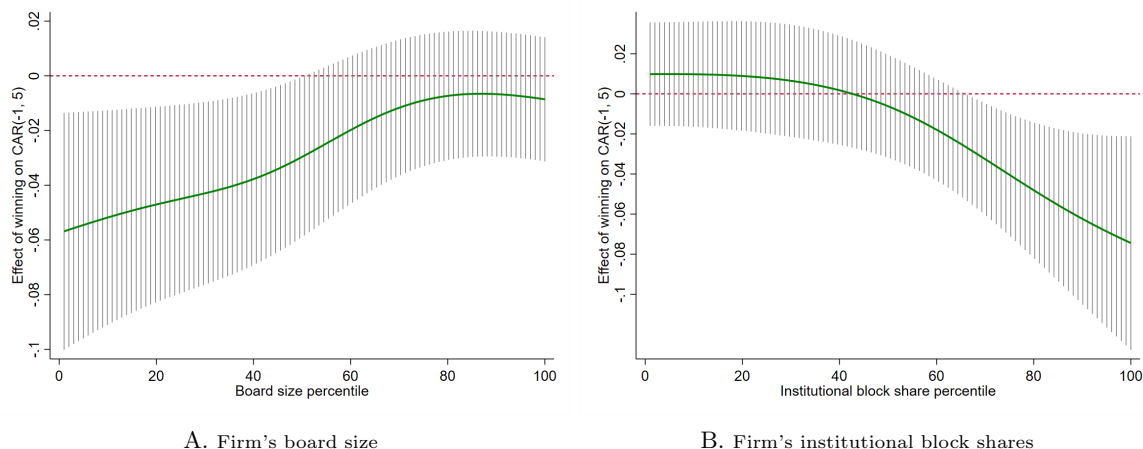
Appendix Table A11 shows further supporting results, including the negative, statistically significant estimated coefficient on the interaction between the treatment and state regulation index (column 5) and the estimates of ΔV among high-regulation states (-4.4% in column 6, significant at 1% level) and among low-regulation states (small and not significant). Furthermore, the gradient of this difference is more pronounced

³⁵Varying this 500 kilometer cutoff does not qualitatively affect the findings.

among local firms, to which state level regulations and thus related benefits from local political connections are more relevant (interaction term of -8.3% in column 8, compared to that of -4.4% in column 5), as also shown by the dashed line of the corresponding semi-parametric estimate in Figure 3’s Subfigure B.

Firm’s corporate governance. Next, we investigate how ΔV depends on a firm’s corporate governance, which predicts its ability to extract value from favors from both high and low offices (variations of both β_1 and β_2). As commonly used in the corporate finance literature, small board size and large institutional block share are associated with better corporate governance (Ferreira and Matos, 2008, Yermack, 1996).³⁶ Figure 4 plots the adverse effect of Congress connection as a function of those two variables, with a pattern that confirms Proposition 2’s prediction that as both β_1 and β_2 grow proportionally, so does the magnitude of the differential value $|\Delta V|$.

Figure 4: EFFECT BY CORPORATE GOVERNANCE



Notes: This figure plots semi-parametric estimates of the differential value of Congress-level connection to firms ΔV as a function of the percentiles of the X-axis variable, together with their 95% confidence intervals. The X-axis variable is the firm’s board size in **Subfigure A**, and the firm’s institutional block share in **Subfigure B**. The point estimate at each value of the X-axis variable is obtained from the baseline RDD regression in equation (1), weighted by a Gaussian kernel function of the percentile on the X-axis with a bandwidth equal to 20% (details in Appendix C.2). Standard errors are clustered by politician.

Appendix Table A12 further provides supplementary evidence with split-sample regressions based on those two measures of corporate governance. It further considers subsamples split by state-level generalized trust from the ANES (2000-2008), as higher trust in non-contractual transactions likely implies higher β_1 and β_2 ; and also by alumni reunion years (Shue, 2013), as strengthened alumni relationships should increase β_1 and β_2 . The patterns of the estimates of ΔV broadly follow Proposition 2’s predictions.

³⁶See also the survey by Shleifer and Vishny (1997). In addition, using alternative measures of corporate governance quality, such as number of institutional block owners or total institutional shares, also yields similar results.

6 Discussions on measurement and interpretation

6.1 Precision of connection measured by educational institutions

As discussed in subsection 3.2, while two individuals' going to the same university at the same time is a relevant and appropriate proxy for their being connected later in life (Cohen et al., 2008, Nguyen, 2012, Fracassi, 2017), it may still contain measurement errors, leading to a potential attenuation bias of the estimate of ΔV . This bias should decrease with the quality of our connection measure.

Table 7 confirms this pattern that the magnitude of the estimated differential value ΔV decreases steadily as we increasingly relax the definition of politician-director connection, from requiring each pair to have graduated from the same university, campus, school, and program combination (column 1) to only same university and program combination (column 3), and from at most one year apart (columns 1-3) to two to four years apart (columns 4-6), and all the way to the full alumni network (column 7, in which the estimate is close to zero). Similarly, the estimate is not statistically different from zero among the networks of the 15-most enrolled universities (column 8), where the chance that they actually know one another is slim.

Table 7: EFFECT BY QUALITY OF POLITICIAN-DIRECTOR CONNECTION MEASURE

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|----------------|--------------------------------|----------------------|----------------------|----------------------------|---------------------|--------------------|-------------------|-------------------|----------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | | |
| | Same institution definition | | | Graduation year difference | | | Total enrollment | | |
| Network sample | Strict | Baseline | Loose | 2 year | 3 year | 4 year | Alumni | Top 15 | Others |
| Winner | -0.039*** (0.010) | -0.032*** (0.008) | -0.029*** (0.007) | -0.020** (0.008) | -0.016** (0.007) | -0.015* (0.008) | -0.003 (0.006) | -0.011 (0.024) | -0.036*** (0.009) |
| Observations | 1,785 | 1,714 | 1,847 | 2,939 | 4,079 | 5,237 | 26,084 | 267 | 1,447 |
| Politicians | 155 | 165 | 173 | 181 | 189 | 193 | 213 | 28 | 145 |
| Directors | 1,131 | 1,136 | 1,237 | 1,811 | 2,410 | 2,962 | 8,974 | 181 | 958 |
| Firms | 1,233 | 1,234 | 1,309 | 1,812 | 2,212 | 2,533 | 4,264 | 214 | 1,067 |

Notes: This table reports how the *estimated* value of Congress-level connection to firms ΔV varies with the quality of the politician-director connection measure, using the baseline RDD specification in equation (1). In the baseline definition, a politician-director pair is considered connected if they graduated from (i) the same university, campus, and degree program combination (ii) at most one year apart (column 2). Columns (1) and (3) vary the same-institution restriction, from requiring the same university, campus, school, and degree program combination (column 1) to only same university and degree program (column 3). Columns (3) to (8) vary the restriction on graduation years, from difference of at most one year (columns 1 to 3) to up to four years (column 6) to including all alumni (column 7). Columns (8) and (9) compare subsamples of universities in versus outside the top 15 in total enrollment. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Our defined connection may also reflect cases of politicians and directors who only connect later in their careers, especially when they have already reached important positions, when their shared alma maters may act as a catalyst.³⁷ Hence, their connection is likely stronger in networks that are more likely to provide better benefits, e.g., by containing more important businesspeople. We use a network's size in BoardEx to proxy for its benefits. Appendix Table A13 indeed shows that the adverse effect of Congress connection is largest among brand-name universities that are the most represented in our sample, namely Harvard University in column 1, the top 3 of Harvard, Stanford University, and University of Pennsylvania in column

³⁷Results regarding alumni reunion year in columns 7 and 8 of Table A12 also hint at this possibility.

3, and Ivy League schools in column 5.

6.2 Homophily and shared preferences as alternative mechanisms

As discussed in subsection 3.2, our empirical design takes the classmate connections between politicians and directors as exogenously given. So the estimated effect could still be due to the homophily mechanism, whereby both same school attendance and linked future outcomes of politicians and businessmen are driven by certain shared characteristics (McPherson et al., 2001). Another possible mechanism is that based on shared preferences earned from their attendance at the same university (Algan et al., 2023). Those mechanisms are different from our suggested mechanism of direct influences among classmates.

In case of those alternative mechanisms, we would expect a politician’s win to have similar effect on his classmates’ firms as well as other alumni’s firms.³⁸ The following specification formalizes this intuition in an enlarged sample that gathers all pairs of firms and politicians with an alumni connection, i.e., a director on the firm’s board and the politician have attended the same university at some point, not necessarily in the same class. It extracts the estimated effect on firms connected to the running candidates through *classmate links* (the baseline sample, for which $Class_{dp} = 1$) from the effect on firms connected through *alumni links* (for which $Class_{dp} = 0$), controlling for a full set of university-by-election year fixed effects θ_{st} :

$$CAR_{idt} = \gamma Winner_{pt} \times Class_{dp} + \beta Winner_{pt} + \rho Class_{dp} + f(VS_{pt}, Class_{dp}) + \theta_{st} + \varepsilon_{idpt}.^{39} \quad (2)$$

Table 8: CONTROLLING FOR HOMOPHILY

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---------------------------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | |
| | Same institution definition | | | Year difference | | Network sample | |
| Network sample | Baseline | Loose | Strict | 10 years | 5 years | Harvard | Big network |
| Winner \times Classmate | -0.040*** (0.007) | -0.036*** (0.007) | -0.044*** (0.008) | -0.039*** (0.008) | -0.038*** (0.009) | -0.031* (0.016) | -0.032* (0.016) |
| Winner | 0.002*** (0.001) | 0.002*** (0.001) | 0.002*** (0.001) | 0.008 (0.005) | 0.003 (0.007) | -0.000 (0.001) | -0.000 (0.001) |
| University \times Election year FEs | X | X | X | X | X | X | X |
| Observations | 25,988 | 27,438 | 27,971 | 11,113 | 6,107 | 5,523 | 7,088 |
| Politicians | 213 | 215 | 213 | 219 | 193 | 23 | 28 |
| Directors | 8,934 | 9,285 | 8,635 | 5,217 | 3,343 | 795 | 1,518 |
| Firms | 4,245 | 4,306 | 4,231 | 3,486 | 2,724 | 1,013 | 1,653 |

Notes: This table compares the effect of close election outcome on firms connected to the running candidates through the classmate network and those connected only through the alumni network, using equation (2) which controls for a full set of university-by-election year fixed effects. Columns (1) and (3) vary the same institution definition (see notes to Table 7 for details). Columns (4) and (5) restrict the samples to only politician-director pairs that are at most 10 years (column 4) or 5 years (column 5) apart in school. Columns (6) and (7) consider the alumni network of Harvard University (column 6) and top three most represented universities in our director sample (Harvard University, Stanford University, and the University of Pennsylvania) (column 7). All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

³⁸Hence, the lack of significant result among firms connected to politicians through the alumni network (Table 7, column 7) already suggests that homophily is not a first order concern.

³⁹ $f(VS_{pt}, Class_{ipt})$ includes the full interaction between VS_{pt} and $Class_{dp}$, separately for each side of the winning threshold. That is, $f(VS_{pt}, Class_{dp}) = \delta_W VS_i \mathbb{1}_{\{VS_i \geq 50\% \}} + \delta_L VS_i \mathbb{1}_{\{VS_i < 50\% \}} + \psi_W VS_i \mathbb{1}_{\{VS_i \geq 50\% \}} Class_{dp} + \psi_L VS_i \mathbb{1}_{\{VS_i < 50\% \}} Class_{dp}$.

The coefficient of interest γ captures the differential value ΔV associated with classmate-connected firms after eliminating the common effects of all contemporaneous elections linked to the corresponding alma mater, which includes the homophily effect and the effect of shared preferences. Table 8 presents different estimates of this coefficient $\hat{\gamma}$ corresponding to different restrictions of the networks, on the scope of the same university (columns 1 to 3), the scope of the politician-director time gap (columns 4 and 5), and among the most represented universities in our director sample. Across those different samples, the estimate remains particularly stable between -3.6% and -4.4%, and statistically significant. They are close to, and slightly stronger than the benchmark of -3.2% (Table 2), indicating that homophily does not contribute to explaining the adverse effect of higher positions found in this paper.

6.3 Medium-term effects on firms and directors

We further find that the main results (Table 2) that firms benefit less from their connections to elected congressmen carry over to firms’ medium-term performances. Columns 1 and 2 of Table 9 report that firms connected to elected congressmen reduce their activities in the corresponding state in the year following the election, as measured by firm’s presence on local media,⁴⁰ relative to those connected to defeated candidates. Furthermore, directors connected to elected congressmen, whose connections are now less valuable to their firms, are also more likely to leave the firms after the election, based on results from both a Cox proportional hazard model (in which the hazard event is the director’s leaving the firm after the election) (column 5) and an RDD specification (in which the outcome variable is whether the director leaves the firm within three years of the election) (column 6).

On the other hand, there is no difference in employment between winner-connected and loser-connected firms, both before and after the election (columns 3 and 4). This result is inconsistent with the potential mechanism according to Shleifer and Vishny’s (1994) theory that politicians pressure connected firms to increase hiring to support their electoral candidacies.

6.4 Market’s attention and trading volume

Are classmate connections salient enough for investors to be priced into connected firms’ stocks? Let us remark that arbitrage based on such information of connections does not require the information to be widely held by all potential investors. Instead, a few analysts and investors “in the know” who follow those firms, including but not restricted to insiders, may be sufficient to create the stock price impact. If

⁴⁰Unfortunately, data on firm’s economic activities by state are not readily available. Similar to a politician’s media presence (Table A6), a firm’s media presence is calculated as the number of search hits for the firm’s name on the corresponding state’s newspapers based on Newslibrary.com, normalized by the number of search hits for the neutral keyword “September.” The resulting hit rate proxies for the firm’s activities within the state in the search period. At the national level, this variable is remarkably correlated with changes in firm’s sales, investments, R&D, employment, and cash flows.

Table 9: EFFECTS OF CONGRESS-LEVEL CONNECTION ON FIRM’S REAL OUTCOMES

| Dependent variable | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------|---------------------|--------------------|-------------------|-------------------|-----------------------|--------------------|
| | Local media mention | | ln(employment) | | Director leaving firm | |
| | Year 0 | Year 1 | Year 0 | Year 1 | Hazard | Within 3yrs |
| Model | RDD with LDV | | RDD with LDV | | Cox | RDD |
| Winner | -0.004 (0.006) | -0.015* (0.008) | -0.011 (0.040) | -0.016 (0.033) | 0.335** (0.147) | 0.168** (0.065) |
| Observations | 1,700 | 1,704 | 1,611 | 1,591 | 1,431 | 1,138 |
| Politicians | 164 | 164 | 165 | 165 | 148 | 121 |
| Directors | 1,130 | 1,131 | 1,087 | 1,072 | 940 | 731 |
| Firms | 1,229 | 1,229 | 1,160 | 1,143 | 1,047 | 842 |

Notes: This table reports the effect of close election outcome on connected firms’ and directors’ real outcomes. Columns (1) to (4) use the baseline RDD specification in equation (1) with additional lagged dependent variable (LDV) control. The dependent variable in columns (1) and (2) is media coverage of firm, as measured by the normalized hit rate from a search for the firm in local newspapers, in the year of the election (year 0) and the year following the election (year 1) respectively. The dependent variable in columns (3) and (4) is firm’s ln(employment) in years 0 and 1 respectively. Column (5) employs a Cox proportional hazard model with the hazard event being the director’s leaving the firm after the election, with controls for vote shares (separately for each side of the winning threshold) and the director’s age and tenure at the firm at year 0. Column (6) uses the baseline RDD specification in equation (1) with (i) the dependent variable being an indicator the director’s leaving the firm within three years of the election and (ii) additional controls for the director’s age and tenure at the firm at year 0. Columns (5) and (6) restrict the sample to directors under 62 in year 0 to exclude natural retirement within three years. Column (6) further restricts the sample to election years 2000, 2002, 2004, and 2006, so that at least three years after each election are fully observed. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

they receive other investors’ attention because of the election, information cascades (Bikhchandani et al., 1992, 1998) can lead to abnormal increases in the trading volume of related stocks around the election day (especially since close elections’ results are unpredictable *ex ante*).

Indeed, we find evidence of abnormal trading volume (Campbell and Wasley, 1996) of stocks of firms connected to close-election candidates around the corresponding election day. Using a market model from day -315 to day -61 before each event to calculate the abnormal daily trading volume around the election day, we find that stocks in our sample are traded significantly more around the event, with 16.4% cumulative abnormal volume during the (-5,-1) window, and 16.2% cumulative abnormal volume during the (-1, 5) window, both statistics significant at 1%.

7 Concluding remarks

This paper challenges the commonly evoked view that higher positions always lead politicians to distribute more favors to their socially connected firms. Our intuitions emphasize the balance between a position’s power to give favors and how much scrutiny it faces. If this balance tilts towards scrutiny, the attainment of a higher position may result in an adverse effect on connected firms’ value.

We empirically assess this claim using the Regression Discontinuity Design of close elections in order to estimate the differential value of connection to a politician elected to the U.S. Congress versus a defeated candidate. We find robust, statistically significant, and economically important effects ranging from -1.9% (after a day) to -3.2% (after a week) of firm’s market value. This adverse effect is most prominent among younger candidates, when career concerns are arguably the strongest. It also varies with predictors of the

balance of power and scrutiny according to the theoretical intuitions.

Those findings highlight the crucial role of scrutiny in restraining favoritism at all political levels, and lead to the question of institutional and policy design of scrutiny across different layers of institutions. If resources to monitor politicians are limited, and favoritism is broadly considered undesirable, but all the more so at higher positions, then there is clearly an argument to focus more monitoring on politicians at higher level. American institutions that place congressmen under a lot more scrutiny than, say, state-level officials, may already reflect this trade-off.

Finally, a note of caution on generalizing the empirical results for several reasons. First, while our estimate is a Weighted Average Treatment Effect (WATE) across all politicians, we acknowledge that some politicians may naturally have higher chances of competing in a close election, and correspond to larger weights in the WATE. Our interpretation is therefore more informative about those politicians than some others who expectedly win (or lose) by large margins. Second, extrapolations before and after this period, or towards other types of political connections, require careful consideration. Third, we also stop short of inferring the effect of connections on general welfare. These topics are natural targets for future research in this line of work.

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A Appendices to be made available online

A.1 Tables and Figures

Table A1: DESCRIPTION OF VARIABLES

| Variable | Description and construction |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Social network variables | |
| Alumni | A firm’s director and a Congress election candidate are counted as coming from the same alumni network if both graduate from the same university degree program. Following Cohen et al. (2008) , we group the degrees into six categories: (i) business school (Master of Business Administration), (ii) medical school, (iii) general graduate (Master of Arts or Master of Science), (iv) Doctor of Philosophy, (v) law school, and (vi) general undergraduate. They are counted as classmates if they come from the same alumni network and they graduate within one year of each other. <i>Source: BoardEx, Lexis-Nexis biographies, and authors’ manually collected data.</i> |
| Classmates | Two alumni are further counted as classmates if they come from the same alumni network and they graduate within one year of each other. <i>Source: As above.</i> |
| Top 15 universities | Indicator of the top 15 largest universities (among those represented in our baseline sample) in terms of total enrollment: (1) Arizona State University, (2) University of Florida, (3) Texas A&M University, (4) University of Texas at Austin, (5) Ohio State University, (6) University of Minnesota, (7) Pennsylvania State University, (8) Michigan State University, (9) University of Illinois, (10) New York University, (11) University of Wisconsin, (12) University of Michigan, (13) Brigham Young University, (14) University of Southern California, and (15) University of Arizona. <i>Source: http://www.matchcollege.com/top-colleges.</i> |
| Big-network universities | Indicator of the top three most represented universities in our director sample: Harvard University, Stanford University, and the University of Pennsylvania. <i>Source: BoardEx.</i> |
| Reunion year | Indicator of whether the election year coincides with the most recent alumni reunion. <i>Source: Authors’ manually collected data.</i> |
| Politician variables | |
| Educational background | Biographies in (i) Who’s Who in American Politics, (ii) Member Biographical Profiles – Current Congress, (iii) World Almanac of U.S. Politics, and (iv) The Almanac of American Politics. Who’s Who biographies provide a brief vita, including the candidate’s employment history, all undergraduate and graduate degrees attained, the year in which those degrees were awarded, and the awarding institution. For biographies unavailable in Who’s Who (especially for defeated candidates), we search the Library of Congress Web Archives which cover multiple versions of Congress election candidates’ websites archived at different moments during the electoral campaign. <i>Source: Lexis-Nexis biographies, Library of Congress Web Archives, authors’ manually collected data.</i> |
| Gender | The politician’s gender. <i>Source: As above.</i> |
| Age | The politician’s age. <i>Source: As above.</i> |
| Level of experience | The politician’s prior political experience, which takes value of 0 when the politician has immediate prior position (State politics experience = 1), 1 – the politician has prior experience only in the House (but not state politics or the Senate) (House experience = 1), and 2 – the politician has prior experience in the Senate (Senate experience = 1). <i>Source: As above.</i> |
| Vote shares | The vote share between the top two candidates (ignoring all other candidates’ votes). <i>Source: Federal Election Commission (FEC).</i> |
| House/Senate | Indicator of whether the race is for House of Representatives or Senate. <i>Source: FEC.</i> |
| Incumbency | Indicator of whether the politician is the incumbent candidate. <i>Source: FEC.</i> |
| Party affiliation | The politician’s party affiliation. <i>Source: FEC.</i> |
| Campaign contribution | Total campaign contribution (in dollar value) that the politician receives. <i>Source: FEC</i> |
| Number of contributors | Total number of contributors towards the politician’s campaign. <i>Source: FEC.</i> |
| Media mention | The number of search hits for the politician’s name on his state’s newspapers based on Newslibrary.com, normalized by the number of search hits for the neutral keyword “September”. To avoid misclassification, we pay particular attention to politicians having common first and last names to avoid false positive search hits, as done in Campante and Do (2014) . <i>Source: http://www.newslibrary.com.</i> |
| Director variables | |
| Educational background | BoardEx provides information on directors’ attained undergraduate and graduate degrees, the years in which those degrees were awarded, and the awarding institutions. <i>Source: BoardEx.</i> |
| Gender | The director’s gender. <i>Source: BoardEx.</i> |
| Age | The director’s age. <i>Source: BoardEx.</i> |
| Executive director | Indicator of whether director has an executive role. <i>Source: BoardEx.</i> |
| Tenure | The director’s tenure in the firm. <i>Source: BoardEx.</i> |
| State variables | |

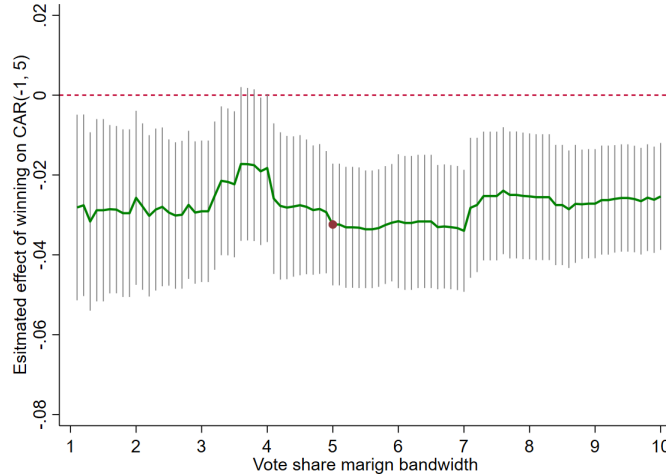
| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Craigslist's penetration | The share of counties in each state where Craigslist has entered by November of two years before the election year. Two measures are calculated: one based on the first day where the website became available in scraped data, and another based on Craigslist's official records. <i>Source: Djourelouva et al. (2023).</i> |
| Craigslist's presence | The indicator whether Craigslist has entered into any county in a state by November of two years before the election year. Two measures are calculated: one based on the first day where the website became available in scraped data, and another based on Craigslist's official records. <i>Source: As above.</i> |
| Capital primacy | The ratio of the state capital's population over the state's population, based on the 1980 census. <i>Source: U.S. Census 1980.</i> |
| Average logarithm of distance (ALD) | ALD is calculated as the average of the natural logarithm of the distance from a state's inhabitants to its capital city in 1980. <i>Source: Campante and Do (2014).</i> |
| State election turnout | The average voter turnout rate in state elections over 2000-2008 minus average turnout rate in presidential elections in 2000, 2004, and 2008 (each rate is normalized by the state's voting-age population based on the U.S. census). <i>Source: David Leip's Atlas of U.S. Presidential Elections, http://www.uselectionatlas.org, U.S. Census.</i> |
| Political interest | The share of answers to the question "How much would you say that you personally care(d) about the way the election to the Congress came out?" as "very much" or "pretty much", as opposed to "not very much" or "not at all", averaged for each state over 2000-2008. <i>Source: American National Election Studies (ANES).</i> |
| Media exposure | The share of respondents following election news via television, newspaper, or radio, averaged for each state over 2000-2008. <i>Source: ANES.</i> |
| Corrupt main city | The number of search hits for the term "corruption" near the name of the main city in each state gathered in on Exalead.com, normalized by the number of search hits for the name of that main city in 2009 (Saiz and Simonsohn, 2013). <i>Source: http://www.exalead.com/search.</i> |
| Corrupt state | The number of search hits for the word "corruption" close to the state name based on all newspapers based on Newslibrary.com, normalized the resulting number of search hits by that for the state name alone in 2009 (Campante and Do, 2014). <i>Source: http://www.newslibrary.com.</i> |
| Conviction cases | The number of federal convictions for public corruption between 1976 and 2002, normalized by average population in the corresponding state during the same period, as used in Glaeser and Saks (2006). <i>Source: Department of Justice.</i> |
| Regulation | State-level regulation index as used in Glaeser and Saks (2006). It combines information on labor and environmental regulations and regulations in specific industries such as insurance, measured in 1999. <i>Source: Clemson University's Report on Economic Freedom, http://www.freedom.clemson.edu.</i> |
| Generalized trust | The share of answers to the standard trust question "Generally speaking, would you say that most people can be trusted, or that you can't be too careful in dealing with people?" as "most people can be trusted", as opposed to "can't be too careful" or "other, depends", averaged for each state over 2000-2008. <i>Source: ANES.</i> |

Firm and stock variables

| | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cumulative Abnormal Return (CAR) | CARs are calculated as cumulation of Abnormal Returns (ARs) in specific windows, with the benchmark window (-1,5) counts from 1 day before to 5 days after the election day (day 0). ARs are estimated from a market model of return prediction using daily data from day -315 to day -61. CAR-FF uses the Fama-French (Fama and French, 1993) three-factor model instead. CAR-FFM uses the Fama-French plus momentum four-factor model instead (Carhart, 1997). <i>Source: CRSP, Fama and French (1993), Carhart (1997).</i> |
| Standardized CAR (SCAR) | SCARs are CARs normalized by volatility during the event period. <i>Source: CRSP.</i> |
| Abnormal trading volume | Abnormal trading volumes are calculated around the election day (day 0), based on the market model using daily data from day -315 to day -61 (Campbell and Wasley, 1996). <i>Source: CRSP.</i> |
| Market value of equity | Market value of total equity (CSHO \times PRCC_F). <i>Source: CRSP.</i> |
| Common equity | Book value of common equity (CEQ). <i>Source: Compustat.</i> |
| Market to book ratio | Market value of total equity (CSHO \times PRCC_F)/book value of common equity (CEQ). <i>Source: Compustat.</i> |
| Firm age | The number of years from IPO or the start of Compustat coverage. <i>Source: Compustat.</i> |
| Total assets | The firm's total assets (AT). <i>Source: Compustat.</i> |
| Total sales | The firm's total sales (SALE). <i>Source: Compustat.</i> |
| Total employment | The firm's total employment (EMP). <i>Source: Compustat.</i> |
| Capital expenditure | Capital expenditure (CAPX)/total assets (AT). <i>Source: Compustat.</i> |
| Return on asset (ROA) | Income before extraordinary items (IB)/total assets (AT) at $t - 1$. <i>Source: Compustat.</i> |
| Book leverage ratio | Book value of debts (DLC + DLTT)/book value of total assets (DLC + DLTT + CEQ). <i>Source: Compustat.</i> |
| Tobin's Q | Total assets (AT) - total shareholder's equity (SEQ) + market value of total equity (CSHO \times PRCC_F)/total assets. <i>Source: Compustat.</i> |
| Board size | The number of directors on the firm's board. <i>Source: BoardEx.</i> |
| Institutional block shares | The fraction of institutional shareholding. <i>Source: Thomson Reuters.</i> |
| Local firm | Indicates whether a firm's headquarter is in the politician's state or within 500 kilometers of the state's capital. <i>Source: BoardEx.</i> |

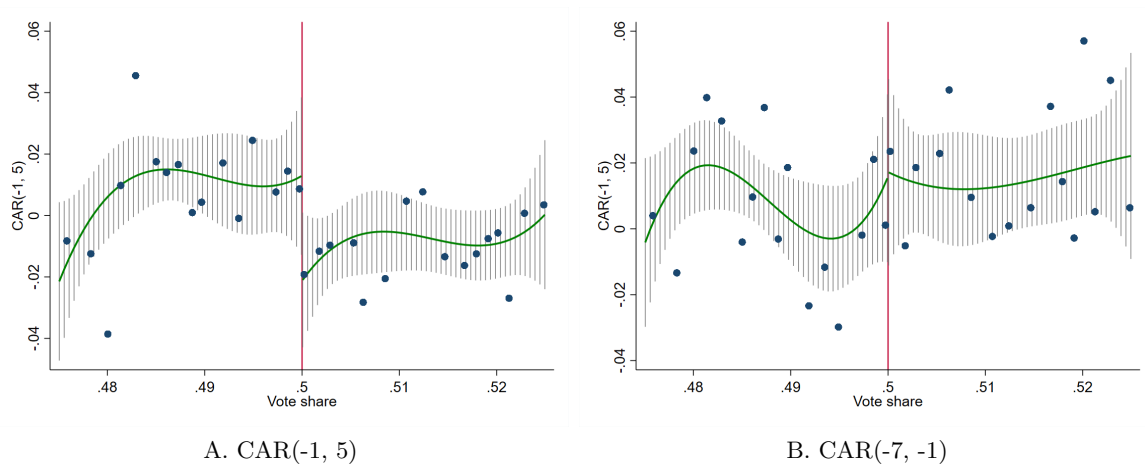
| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distance to state capital | Geodesic distance between the firm's headquarter ZIP code and election state's capital. <i>Source: BoardEx.</i> |
| Distance to Washington D.C. | Geodesic distance between the firm's headquarter ZIP code and Washington D.C. <i>Source: BoardEx.</i> |
| Local media presence | The number of search hits for the firm's name in the state's local newspaper based on Newslibrary.com, normalized by the number of search hits for the neutral keyword "September." <i>Source: http://www.newslibrary.com.</i> |

Figure A1: SENSITIVITY TESTS USING ALTERNATIVE SAMPLE RESTRICTIONS



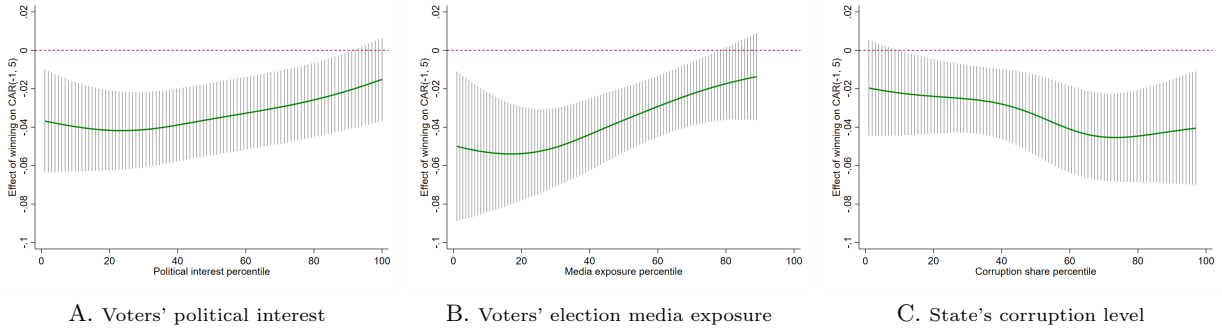
Notes: This figure plots RDD estimates of firms' differential value of Congress connection, as well as their 95% confidence intervals, for different values of the bandwidth used in the RDD specification in equation (1).

Figure A2: DISCONTINUITY OF MARKET REACTION WITH CUBIC FUNCTION CONTROLS



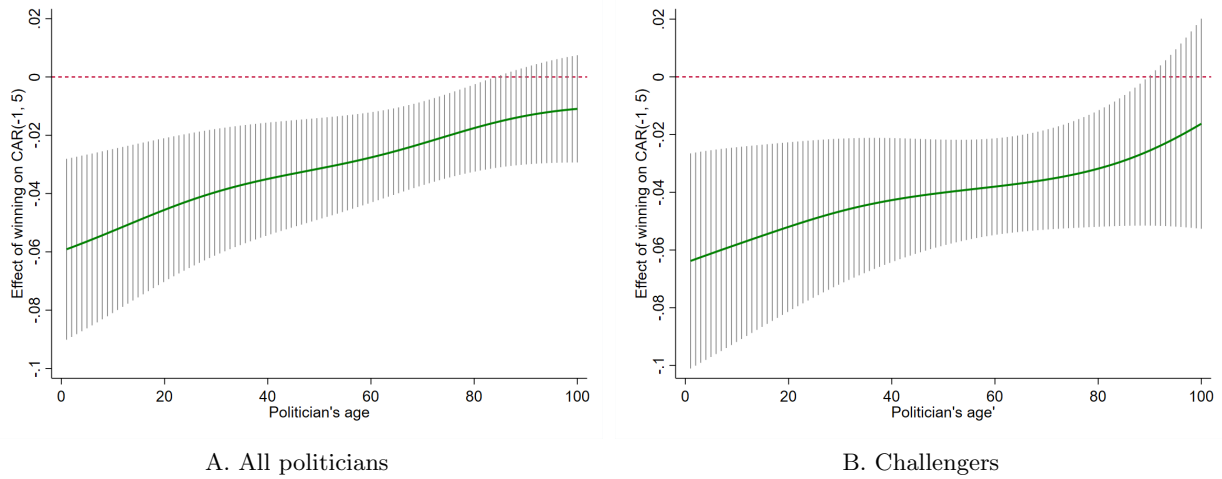
Notes: This RDD figure plots connected firms' cumulative abnormal returns (CARs) against the connected politician's vote share around the 50% threshold, including separately fitted cubic functions of vote share on either side of the threshold (Equation (1)) and their 95% confidence intervals. **Subfigure A** shows the estimated discontinuity of -3.4% on CARs between days -1 and 5 around the election. **Subfigure B** shows balanced CARs before the election between days -7 and -1. 16 dots on each side of the threshold represent approximately equal-sized bins of close elections.

Figure A3: EFFECT BY VOTERS' POLITICAL INTEREST AND STATE'S CORRUPTION LEVEL



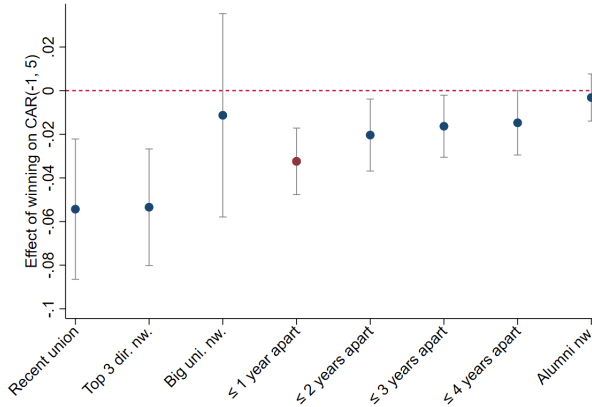
Notes: This figure plots semi-parametric estimates of the differential value of Congress-level connection to firms ΔV as a function of percentiles of X-axis variables together with their 95% confidence intervals. In **Subfigure A**, the X-axis variable is the share of respondents by state with strong interest in election outcomes. In **Subfigure B**, the X-axis variable is the share of respondents following election news on television, newspaper, or radio. Both of those measures are from the American National Election Studies over 2000-2008. In **Subfigure C**, the X-axis variable is the number of search hits on Exalead.com for the term “corruption” near the name of the main city in each state, normalized by the number of search hits for the name of that main city. The point estimate at each value of the X-axis variable is obtained from the baseline RDD regression in equation (1), weighted by a Gaussian kernel function of the percentile on the X-axis with a bandwidth equal to 20% (details in Appendix C.2). Standard errors are clustered by politician.

Figure A4: EFFECT BY POLITICIAN'S AGE



Notes: This figure plots semi-parametric estimates of the differential value of Congress-level connection to firms ΔV as a function of the connected politician's age percentile on the X-axis, together with their 95% confidence intervals. **Subfigure A** includes all politicians in the baseline sample and **Subfigure B** includes challenger candidates. The point estimate at each value of politician's age is obtained from the baseline RDD regression in equation (1), weighted by a Gaussian kernel function of politician's age percentile with a bandwidth of 20% (details in Appendix C.2), among the subsample of challengers. The X-axis shows ages corresponding to each age quintiles. Standard errors are clustered by politician.

Figure A5: EFFECT BY STRENGTH AND PRECISION OF CONNECTION



Notes: This figure plots estimates of the adverse effect of Congress connections based on various definitions of connections. The three left-most estimates come from restricted samples in years of recent alumni reunions, among top-3 universities in terms of directors network size, and among big universities. The five right-most estimates consider gradually relaxing the network definition in terms of years apart, with the middle estimate being the benchmark result from Table 2. Standard errors are clustered by politician.

Table A2: DISTRIBUTION OF DEGREE PROGRAM AND GRADUATION YEAR

| Degree program | Politicians | Directors | Conn. pairs | Graduation year | Politicians | Directors | Conn. pairs |
|------------------|-------------|-----------|-------------|-----------------|-------------|-----------|-------------|
| Business school | 5.6% | 4.8% | 4.4% | < 1950 | 0.5% | 0.4% | 0.5% |
| Medical school | 0.5% | 0.1% | 0.1% | 1950-1959 | 5.7% | 3.7% | 3.5% |
| General graduate | 8.0% | 3.2% | 3.0% | 1960-1969 | 24.6% | 37.2% | 37.7% |
| Ph.D. | 1.4% | 0.5% | 0.5% | 1970-1979 | 42.2% | 41.5% | 40.2% |
| Law school | 12.2% | 3.9% | 3.7% | 1980-1989 | 20.4% | 15.0% | 14.8% |
| Undergraduate | 72.3% | 87.4% | 88.3% | ≥ 1990 | 6.6% | 2.2% | 3.4% |

Notes: This table reports the distribution of degree program and graduation year among connected politician-director pairs in our baseline sample. A politician and a director are considered connected if they graduated from the same university, campus, and degree program combination within one year of each other. All academic degrees are classified into one of the above six program categories, following Cohen et al. (2008).

Table A3: BASELINE FIRMS' CHARACTERISTICS COMPARED TO COMPUSTAT FIRMS

| Sample | Baseline sample | | | Compustat universe | | |
|----------------------------|-----------------|--------|-----------|--------------------|--------|-----------|
| | Mean | Median | Std. dev. | Mean | Median | Std. dev. |
| Firm's age (year) | 18.88 | 13.00 | 15.58 | 15.30 | 11.00 | 13.16 |
| Market value (\$ million) | 5,810 | 589.1 | 25,336 | 3,548 | 290.1 | 16,661 |
| Common equity (\$ million) | 2,062 | 247.8 | 8,434 | 1,347 | 127.2 | 6,301 |
| Market-to-book ratio | 3.381 | 2.023 | 14.72 | 4.684 | 1.950 | 92.31 |
| Total assets (\$ million) | 12,689 | 764.5 | 91,372 | 8,141 | 379.9 | 70,219 |
| Sales (\$ million) | 4,033 | 446.0 | 14,420 | 2,627 | 188.5 | 11,976 |
| Employment (thousand) | 13.90 | 1.546 | 53.41 | 9.080 | 0.775 | 38.09 |
| Capital expenditure/assets | 236.0 | 14.79 | 983.9 | 187.9 | 7.743 | 1,040 |
| Return on assets (%) | -6.052 | 2.494 | 41.54 | -4.976 | 1.612 | 49.54 |
| Book leverage ratio | 0.307 | 0.343 | 2.391 | 0.344 | 0.301 | 10.80 |
| Tobin's Q | 2.007 | 1.401 | 1.909 | 2.422 | 1.394 | 4.623 |

Notes: This table reports the characteristics of the 1,234 firms in our baseline sample (weighted by observation count) and compares them to firms in the Compustat universe (which include all firms within Compustat in 2000, 2002, 2004, 2006, and 2008).

Table A4: RDD RANDOMNESS CHECKS

Panel A. Politician characteristics

| Sample | | Politician \times Election year | | | | Baseline | | | |
|--------|------------------------------------------|-----------------------------------|---------|--------------|------|----------|---------|--------------|-------|
| | | Winner | S.E. | Mean | Obs. | Winner | S.E. | Mean | Obs. |
| 1 | I: Gender = Male | 0.084 | (0.116) | <i>0.785</i> | 186 | 0.135 | (0.126) | <i>0.840</i> | 1,714 |
| 2 | Age at election year (year) | -1.253 | (2.293) | <i>52.89</i> | 186 | 3.278 | (2.206) | <i>54.66</i> | 1,714 |
| 3 | I: Attended brand-name university | -0.012 | (0.120) | <i>0.237</i> | 186 | -0.139 | (0.234) | <i>0.478</i> | 1,714 |
| 4 | I: Senate election candidate | 0.065 | (0.116) | <i>0.210</i> | 186 | 0.077 | (0.237) | <i>0.318</i> | 1,714 |
| 5 | I: Incumbent candidate | -0.080 | (0.137) | <i>0.387</i> | 186 | -0.233 | (0.195) | <i>0.346</i> | 1,714 |
| 6 | I: Party affiliation = Democrat | 0.016 | (0.138) | <i>0.516</i> | 186 | 0.278 | (0.191) | <i>0.585</i> | 1,714 |
| 7 | I: Same party as chamber majority | 0.189 | (0.143) | <i>0.489</i> | 186 | -0.069 | (0.226) | <i>0.488</i> | 1,714 |
| 8 | I: Same party as presidency | 0.077 | (0.142) | <i>0.483</i> | 186 | -0.079 | (0.195) | <i>0.396</i> | 1,714 |
| 9 | I: Experience in state politics | -0.173 | (0.137) | <i>0.323</i> | 186 | -0.226 | (0.198) | <i>0.335</i> | 1,714 |
| 10 | I: Experience in Congress | -0.056 | (0.141) | <i>0.430</i> | 186 | -0.212 | (0.197) | <i>0.372</i> | 1,714 |
| 11 | Local media presence in election year | -0.005 | (0.076) | <i>0.144</i> | 186 | -0.052 | (0.057) | <i>0.149</i> | 1,714 |
| 12 | Total campaign contribution (\$ million) | -0.494 | (0.822) | <i>2.246</i> | 186 | -0.200 | (1.614) | <i>2.667</i> | 1,714 |
| 13 | Number of contributors | -110.2 | (130.4) | <i>586.6</i> | 186 | -383.6* | (201.9) | <i>581.6</i> | 1,714 |
| 14 | Number of connected directors | 2.567 | (2.255) | <i>7.183</i> | 186 | 3.169 | (5.420) | <i>16.01</i> | 1,714 |
| 15 | Number of connected firms | 4.162 | (2.950) | <i>9.070</i> | 186 | 6.871 | (7.449) | <i>21.42</i> | 1,714 |

Panel B. Director characteristics

| Sample | | Director \times Politician \times Year | | | | Baseline | | | |
|--------|----------------------------------------|--------------------------------------------|---------|--------------|-------|----------|---------|--------------|-------|
| | | Winner | S.E. | Mean | Obs. | Winner | S.E. | Mean | Obs. |
| 16 | I: Gender = Male | -0.009 | (0.039) | <i>0.912</i> | 1,336 | -0.019 | (0.043) | <i>0.899</i> | 1,714 |
| 17 | Age at election year (year) | 3.446 | (2.176) | <i>54.28</i> | 1,336 | 3.307 | (2.079) | <i>54.50</i> | 1,714 |
| 18 | Number of years since graduation | 3.536 | (2.221) | <i>31.69</i> | 1,336 | 3.548 | (2.227) | <i>31.88</i> | 1,714 |
| 19 | I: Link via big-name university | -0.082 | (0.221) | <i>0.418</i> | 1,336 | -0.101 | (0.229) | <i>0.436</i> | 1,714 |
| 20 | I: Link via big-size university | 0.084 | (0.098) | <i>0.161</i> | 1,336 | 0.054 | (0.101) | <i>0.156</i> | 1,714 |
| 21 | I: Link via undergraduate program | 0.014 | (0.063) | <i>0.873</i> | 1,336 | 0.040 | (0.072) | <i>0.872</i> | 1,714 |
| 22 | Number of related firms | 0.144 | (0.081) | <i>1.283</i> | 1,336 | 0.643* | (0.330) | <i>1.680</i> | 1,714 |
| 23 | I: Executive director (avg.) | -0.062 | (0.053) | <i>0.204</i> | 1,336 | -0.077 | (0.049) | <i>0.176</i> | 1,714 |
| 24 | Tenure in firm at election year (avg.) | -0.826 | (0.744) | <i>4.632</i> | 1,336 | -0.716 | (0.710) | <i>4.519</i> | 1,714 |

Panel C. State characteristics

| Sample | | State \times Politician \times Year | | | | Baseline sample | | | |
|--------|----------------------------------------|-----------------------------------------|---------|--------------|------|-----------------|---------|--------------|-------|
| | | Winner | S.E. | Mean | Obs. | Winner | S.E. | Mean | Obs. |
| 25 | I: Craigslist's presence 2 years prior | 0.047 | (0.139) | <i>0.382</i> | 186 | 0.212 | (0.200) | <i>0.394</i> | 1,714 |
| 26 | Craigslist's penetration 2 years prior | 0.035 | (0.049) | <i>0.143</i> | 186 | 0.056 | (0.058) | <i>0.149</i> | 1,714 |
| 27 | Average log distance to capital city | -0.029 | (0.026) | <i>0.298</i> | 183 | 0.027 | (0.041) | <i>0.301</i> | 1,675 |
| 28 | Difference in voter turnouts | -0.007 | (0.010) | <i>0.179</i> | 163 | -0.017 | (0.014) | <i>0.182</i> | 1,540 |
| 29 | Voters' political interest | 0.010 | (0.023) | <i>1.674</i> | 183 | 0.048 | (0.033) | <i>1.676</i> | 1,675 |
| 30 | Voters' election media exposure | 0.002 | (0.004) | <i>0.974</i> | 183 | 0.003 | (0.004) | <i>0.974</i> | 1,675 |
| 31 | State's corruption level | 0.184* | (0.104) | <i>0.262</i> | 186 | 0.158 | (0.171) | <i>0.231</i> | 1,714 |
| 32 | State's regulation index in 1999 | 0.050 | (0.135) | <i>6.148</i> | 186 | -0.102 | (0.194) | <i>6.157</i> | 1,714 |
| 33 | State's generalized trust level | 0.006 | (0.036) | <i>0.481</i> | 183 | -0.031 | (0.051) | <i>0.476</i> | 1,675 |

Panel D. Firm characteristics

| Sample | Firm \times Politician \times Year | | | | Baseline | | | | |
|--------|----------------------------------------|---------|---------|--------|----------|---------|---------|--------|-------|
| | Winner | S.E. | Mean | Obs. | Winner | S.E. | Mean | Obs. | |
| 34 | Age at election year (year) | 2.404 | (1.745) | 18.89 | 1,681 | 2.540 | (1.744) | 18.88 | 1,708 |
| 35 | Lagged market value (\$ billion) | 4.162 | (2.937) | 6.008 | 1,687 | 4.105 | (2.870) | 5.924 | 1,714 |
| 36 | Lagged common equity (\$billion) | 1.240 | (0.887) | 1.957 | 1,687 | 1.228 | (0.864) | 1.931 | 1,714 |
| 37 | Lagged market-to-book ratio | 0.879 | (2.009) | 2.727 | 1,576 | 1.039 | (1.949) | 2.753 | 1,603 |
| 38 | Lagged total assets (\$ billion) | 3.139 | (8.212) | 11.01 | 1,687 | 3.192 | (8.019) | 10.86 | 1,714 |
| 39 | Lagged total sales (\$ billion) | 2.937 | (1.898) | 3.690 | 1,687 | 2.955 | (1.844) | 3.652 | 1,714 |
| 40 | Lagged total employment (thousand) | 0.565 | (7.080) | 13.91 | 1,610 | 0.810 | (6.910) | 13.77 | 1,637 |
| 41 | Lagged capital expenditure/assets | 0.003 | (0.006) | 0.044 | 1,564 | 0.002 | (0.007) | 0.044 | 1,589 |
| 42 | Lagged return on assets | -0.030 | (0.038) | -0.042 | 1,636 | -0.037 | (0.038) | -0.043 | 1,663 |
| 43 | Lagged book leverage ratio | 0.018 | (0.111) | 0.367 | 1,630 | -0.019 | (0.108) | 0.367 | 1,657 |
| 44 | Lagged Tobin's Q | 0.238 | (0.361) | 2.371 | 1,576 | 0.292 | (0.361) | 2.379 | 1,603 |
| 45 | Lagged board size | 0.065 | (0.577) | 9.467 | 1,148 | 0.027 | (0.579) | 9.450 | 1,165 |
| 46 | Lagged institutional block shares | 0.005 | (0.022) | 0.227 | 1,005 | 0.006 | (0.022) | 0.227 | 1,018 |
| 47 | Local media presence in election year | 0.015 | (0.042) | 0.056 | 1,677 | 0.014 | (0.042) | 0.056 | 1,704 |
| 48 | I: Local firm | -0.127 | (0.089) | 0.255 | 1,687 | -0.133 | (0.091) | 0.258 | 1,714 |
| 49 | Distance to state capital (km) | 117.1 | (182.5) | 1,511 | 1,687 | 142.1 | (182.8) | 1,502 | 1,714 |
| 50 | Distance to Washington D.C. (km) | 523.6 | (407.7) | 1,251 | 1,648 | 488.3 | (410.2) | 1,250 | 1,675 |
| 51 | Number of connected directors | -0.306* | (0.183) | 1.132 | 1,687 | -0.299* | (0.180) | 1.130 | 1,714 |

Notes: This table reports the differences between closely elected and defeated candidates and between their connected directors, firms, and states, using the baseline RDD specification in equation (1) with different dependent variables.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A5: ROBUSTNESS CHECKS FOR MAIN EFFECT

| <i>Panel A. Alternative specifications</i> | | | | | | | | |
|--------------------------------------------|--------------------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | Dependent variable: CAR(-1, 5) | | | | | | | |
| Specification | Alternative clusterings | | | Alt. obs. unit | Alternative kernels & samples | | | |
| Winner | -0.032*** (0.008) | -0.032*** (0.010) | -0.032*** (0.008) | -0.031*** (0.008) | -0.026*** (0.009) | -0.026*** (0.009) | -0.028*** (0.011) | -0.026*** (0.009) |
| Clustering scheme | State × Yr. | Firm | Two-way | | | | | |
| Observation unit | | | | Pol. × Firm | | | | |
| Kernel function | | | | | Tri | Epa | Tri | Epa |
| Sample selection | | | | | | | CCT | CCT |
| Observations | 1,714 | 1,714 | 1,714 | 1,687 | 1,714 | 1,714 | 559 | 1,714 |
| Politicians | 165 | 165 | 165 | 165 | 165 | 165 | 66 | 165 |
| Directors | 1,136 | 1,136 | 1,136 | 1,122 | 1,136 | 1,136 | 415 | 1,136 |
| Firms | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 481 | 1,234 |

| <i>Panel B. Alternative CAR models</i> | | | | | | | | |
|----------------------------------------|----------------------|----------------------|-------------------|---------------------|-----------------------|----------------------|----------------------|----------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | SCAR(-1, 5) | | | | CAR(-1, 5) | | | |
| Model | Baseline MM | | Raw | | Fama-French 3 factors | | 4 factors | |
| Winner | -0.398*** (0.116) | -0.512*** (0.150) | -0.026 (0.019) | -0.052** (0.023) | -0.028*** (0.007) | -0.031*** (0.011) | -0.032*** (0.008) | -0.037*** (0.011) |
| University FEs | | X | | X | | X | | X |
| Observations | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 | 1,714 |
| Politicians | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 165 |
| Directors | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 | 1,136 |
| Firms | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 | 1,234 |

Notes: This table reports the robustness checks for the benchmark average differential value of Congress-level connection to firms ΔV , which is estimated using the baseline RDD specification in equation (1) and reported in column (1) of Table 2. **Panel A:** Columns (1) to (3) cluster standard errors (i) by state -by-election year, (ii) by firm, and (iii) two-way by politician and firm respectively. Each observation in column (4) is a combination of politician p , connected firm f , and election year t . Columns (5) and (6) use triangle and Epanechnikov kernel weights, and columns (7) and (8) use samples selected by [Calonico et al.'s \(2014\)](#) method with triangle and Epanechnikov kernel weights respectively. **Panel B:** Columns (1) and (2)'s use standardized CARs (CARs normalized by volatility during the event period) computed using the baseline market model as the dependent variable. Columns (3) and (4) use raw returns. Columns (5) and (6) use CARs computed based on the [Fama and French's \(1993\)](#) three-factor model. Columns (7) and (8) use CARs based on [Fama and French's \(1993\)](#) plus [Carhart's \(1997\)](#) momentum four-factor models. Columns (2), (4), (6), and (8) additionally include university fixed effects. Standard errors are clustered by politician unless noted otherwise.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A6: GREATER SCRUTINY OF WINNERS AFTER ELECTION

Panel A.

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-------------------|------------------------------------------------------------|---------------------|-------------------|----------------------|---------------------|----------------------|---------------------|
| | Dependent variable: Change in media mention (-1, 1) | | | | | | |
| Politician sample | All winners | Challenger winners | Incumbent winners | All losers | Challenger losers | Incumbent losers | All candidates |
| Mean | 0.036*** (0.009) | 0.056*** (0.014) | 0.002 (0.006) | -0.037*** (0.011) | -0.014** (0.006) | -0.071*** (0.026) | |
| Winner | | | | | | | 0.111*** (0.029) |
| <i>Difference</i> | | 0.055*** (0.015) | | | 0.057** (0.026) | | |
| Observations | 100 | 63 | 37 | 86 | 51 | 35 | 186 |
| Politicians | 93 | 63 | 32 | 84 | 50 | 35 | 165 |

Panel B.

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-------------------|--------------------------------------------------------------|-------------------|-------------------|-------------------|--------------------|---------------------|----------------------------|--------------------|
| | Dependent variable: Media mention in local newspapers | | | | | | | |
| Time period | Year -1 | Year 0 | Year 1 | Year 2 | $\Delta(-1, 1)$ | | $\Delta(\text{pre, post})$ | |
| Politician sample | All politicians | | | | Challengers | Incumbents | Challengers | Incumbents |
| Winner | -0.014 (0.050) | -0.005 (0.076) | 0.098* (0.053) | 0.078* (0.044) | 0.093** (0.033) | 0.122*** (0.044) | 0.074*** (0.027) | 0.112** (0.050) |
| Observations | 186 | 186 | 186 | 186 | 114 | 72 | 114 | 72 |
| Politicians | 165 | 165 | 165 | 165 | 110 | 64 | 110 | 64 |

Notes: This table reports changes in media attention on a candidate after his election, and compares those changes between winners and losers. Media attention is measured by the normalized hit rate from a search for the politician in local newspapers based on Newslibrary.com. Each observation is a politician p in election year t (politician p is a close-election top-two candidate in election year t). All standard errors are clustered by politician. **Panel A** reports the average change in media mention of the politician between year 1 and year -1, separately for winner and losers. Columns (1) to (3) consider all winners, challenger winners, and incumbent winners, respectively. Columns (4) to (6) consider all losers, challenger losers, and incumbent losers, respectively. Column (7) applies equation (1)'s RDD specification on the full sample of all politician-by-election year's, using the same change in media mention of politician as the dependent variable. **Panel B** reports the difference in media mention of elected and defeated politicians before and after the election, using an RDD specification similar to that in equation (1) with media mention of the politician as the dependent variable. Columns (1) to (4) consider media mentions from year -1 to year 2. Columns (5) and (6) consider changes in media mention between year 1 and year -1. Columns (7) and (8) consider changes in media mention between pre-election (years -1 and 0) and post-election (years 1 and 2). Columns (5) and (7) consider challenger politicians and columns (6) and (8) incumbent politicians. *** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A7: EFFECT BY DEGREE OF SCRUTINY AT DIFFERENT LEVELS

Panel A. Effect by voters' political interest

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------------|--------------------------|----------------------|--------------------------|--------------------|--------------------------|---------------------|----------------------------|---------------------|
| Dependent variable: CAR(-1, 5) | | | | | | | | |
| Measure of scrutiny | ALD to capital | | Voter turnout | | Political interest | | Media exposure | |
| State sample | High | Low | Low | High | Low | High | Limited | Strong |
| Winner | -0.038*** (0.013) | -0.029*** (0.010) | -0.044*** (0.012) | -0.023* (0.014) | -0.042*** (0.013) | -0.027** (0.011) | -0.057*** (0.015) | -0.022** (0.009) |
| <i>Difference</i> | <i>-0.010</i> (0.016) | | <i>-0.021</i> (0.018) | | <i>-0.015</i> (0.016) | | <i>-0.035**</i> (0.017) | |
| Observations | 872 | 803 | 737 | 803 | 820 | 855 | 820 | 855 |
| Politicians | 94 | 68 | 60 | 85 | 80 | 82 | 86 | 76 |
| Directors | 621 | 540 | 511 | 560 | 574 | 598 | 565 | 602 |
| Firms | 722 | 635 | 605 | 659 | 673 | 703 | 659 | 702 |

Panel B. Effect by state's corruption level

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------------------|----------------------------|--------------------|---------------------------|---------------------|--------------------------|---------------------|
| Dependent variable: CAR(-1, 5) | | | | | | |
| Proxy for corruption | Search hits w. city name | | Search hits w. state name | | Conviction cases | |
| State sample | High | Low | High | Low | High | Low |
| Winner | -0.053*** (0.014) | -0.017* (0.010) | -0.049*** (0.013) | -0.021** (0.010) | -0.043*** (0.013) | -0.025** (0.010) |
| <i>Difference</i> | <i>-0.036**</i> (0.017) | | <i>-0.028*</i> (0.016) | | <i>-0.018</i> (0.016) | |
| Observations | 855 | 859 | 829 | 885 | 818 | 896 |
| Politicians | 98 | 67 | 91 | 74 | 88 | 77 |
| Directors | 602 | 589 | 592 | 618 | 584 | 598 |
| Firms | 681 | 709 | 679 | 730 | 674 | 708 |

Notes: **Panel A** reports how firm's differential value of Congress-level connection ΔV varies by the degree of scrutiny in state politics (γ_1) and federal politics (γ_2) measured in each politician's home state, using the baseline RDD specification in equation (1). Columns (1) and (2) compare subsamples of states with above and below median Average Log Distance (ALD) to state capital city in 1980 (Campante and Do, 2014). High ALD implies low γ_1 . Columns (3) and (4) compare subsamples of states with above and below median average voter turnout in state elections (minus turnout in presidential elections). Low state-election turnout implies low γ_1 . Columns (5) and (6) compare subsamples of states with below and above median level of political interest (share of responses of strong interest in election outcome, from ANES). Low level of political interest implies small γ_1 and γ_2 . Columns (7) and (8) compare subsamples of states with below and above median in media exposure around election time (share of respondents following election news via television, newspaper, or radio, from ANES). Limited media exposure implies small γ_1 and γ_2 . **Panel B** reports how the differential value of Congress-level connection to firms ΔV varies by the degree of state corruption level, using the baseline RDD specification in equation (1). High corruption level implies small γ_1 and γ_2 . Columns (1) and (2) measure corruption based on the number of search hits on Exalead.com for the term "corruption" near the name of the main city in each state, normalized by the number of search hits for the name of that main city. Columns (3) and (4) measure corruption based on the number of search hits on Exalead.com for the term "corruption" near the name of the state, normalized by the number of search hits for the name of that state. Columns (5) and (6) measure corruption based on the number of federal convictions for public corruption between 1976 and 2002, normalized by average population in the corresponding state during the same period (Glaeser and Saks, 2006). All standard errors are clustered by politician. *** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A8: EFFECT BY DEGREE OF SCRUTINY AMONG CHALLENGERS AND INCUMBENTS

Panel A. Subsample of challengers

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|---------------------|---------------------------------------|-----------|---------------|----------|--------------------|-----------|----------------|-----------|------------|----------|
| | Dependent variable: CAR(-1, 5) | | | | | | | | | |
| Measure of scrutiny | ALD to capital | | Voter turnout | | Political interest | | Media exposure | | Corruption | |
| State sample | High | Low | Low | High | Low | High | Limited | Strong | High | Low |
| Winner | -0.050*** | -0.039*** | -0.047*** | -0.036** | -0.043*** | -0.042*** | -0.064*** | -0.035*** | -0.060*** | -0.028** |
| | (0.017) | (0.012) | (0.013) | (0.016) | (0.013) | (0.013) | (0.019) | (0.010) | (0.017) | (0.012) |
| <i>Difference</i> | | -0.011 | | -0.011 | | -0.001 | | -0.029 | | -0.032 |
| | | (0.021) | | (0.021) | | (0.018) | | (0.022) | | (0.021) |
| Observations | 514 | 578 | 509 | 535 | 498 | 594 | 509 | 583 | 573 | 548 |
| Politicians | 59 | 50 | 40 | 56 | 49 | 60 | 56 | 53 | 61 | 49 |
| Directors | 391 | 435 | 362 | 400 | 372 | 453 | 375 | 452 | 413 | 407 |
| Firms | 475 | 524 | 445 | 484 | 459 | 540 | 468 | 533 | 490 | 504 |

Panel B. Subsample of incumbents

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|---------------------|---------------------------------------|---------|---------------|---------|--------------------|---------|----------------|---------|------------|---------|
| | Dependent variable: CAR(-1, 5) | | | | | | | | | |
| Measure of scrutiny | ALD to capital | | Voter turnout | | Political interest | | Media exposure | | Corruption | |
| State sample | High | Low | Low | High | Low | High | Limited | Strong | High | Low |
| Winner | -0.036 | -0.008 | -0.016 | 0.007 | -0.043 | -0.001 | -0.040* | 0.002 | -0.044** | 0.010 |
| | (0.028) | (0.016) | (0.035) | (0.023) | (0.029) | (0.013) | (0.023) | (0.018) | (0.023) | (0.020) |
| <i>Difference</i> | | -0.028 | | -0.023 | | -0.042 | | -0.042 | | -0.054* |
| | | (0.032) | | (0.042) | | (0.032) | | (0.029) | | (0.031) |
| Observations | 358 | 225 | 228 | 268 | 322 | 261 | 311 | 272 | 282 | 311 |
| Politicians | 36 | 26 | 22 | 34 | 34 | 28 | 34 | 28 | 39 | 25 |
| Directors | 259 | 173 | 168 | 199 | 241 | 191 | 238 | 195 | 209 | 233 |
| Firms | 317 | 205 | 205 | 241 | 292 | 237 | 286 | 238 | 243 | 289 |

Notes: This table replicates the columns in Table A7 for two partitioned subsamples, that of challengers in **Panel A** and that of incumbents in **Panel B**. The coefficients show how firm’s differential value of Congress-level connection ΔV varies by the degree of scrutiny in state politics (γ_1) and federal politics (γ_2) measured in each politician’s home state, using the baseline RDD specification in equation (1). Columns (1) and (2) compare subsamples of states with above and below median Average Log Distance (ALD) to state capital city (Campante and Do, 2014). High ALD implies low γ_1 . Columns (3) and (4) compare subsamples of states with above and below median average voter turnout in state elections (minus turnout in presidential elections). Low state-election turnout implies low γ_1 . Columns (5) and (6) compare subsamples of states with below and above median level of political interest (share of responses of strong interest in election outcome, from ANES). Low level of political interest implies small γ_1 and γ_2 . Columns (7) and (8) compare subsamples of states with below and above median in media exposure around election time (share of respondents following election news via television, newspaper, or radio, from ANES). Limited media exposure implies small γ_1 and γ_2 . Columns (9) and (10) compare subsamples of states with above and below corruption level, measured as the number of search hits on Exalead.com for the term “corruption” near the name of the main city in each state, normalized by the number of search hits for the name of that main city. High corruption level implies small γ_1 and γ_2 . All standard errors are clustered by politician. *** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A9: EFFECT BY POLITICIAN'S AGE AMONG ALL POLITICIANS

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|---------------------|---------------------------------------|----------------------|---------------------|---------------------|---------------------|-------------------|-------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | |
| Politician sample | All | Below med. | Above med. | Age Q1 | Age Q2 | Age Q3 | Age Q4 |
| Winner | -0.031*** (0.008) | -0.044*** (0.011) | -0.014* (0.008) | -0.059** (0.022) | -0.037** (0.015) | -0.017 (0.013) | -0.010 (0.012) |
| W × (Pol. Age - 56) | 0.002** (0.001) | | | | | | |
| <i>Difference</i> | | | -0.030** (0.014) | | | | |
| Observations | 1,714 | 961 | 753 | 432 | 529 | 343 | 410 |
| Politicians | 165 | 115 | 55 | 66 | 52 | 20 | 37 |
| Directors | 1,136 | 691 | 497 | 331 | 377 | 215 | 290 |
| Firms | 1,234 | 780 | 601 | 382 | 445 | 280 | 354 |

Notes: This table reports how the differential value of Congress-level connection to firms ΔV varies by the politician's age, using the baseline RDD specification in equation (1), for the full baseline sample. Column (1) interacts the treatment (i.e., winning the election) with the politician's age (relative to the median of 56). Columns (2) and (3) compare subsamples of younger (at most 56) and older (above 56) politicians. Columns (4) to (7) consider the subsamples of politicians in age quartile 1 to 4 as determined with respect to the full baseline sample. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A10: EFFECT IN DIFFERENT POLITICIAN SUBSAMPLES

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-------------------|---------------------------------------|----------------------|----------------------|-------------------|---------------------|----------------------|----------------------|---------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | |
| Politician sample | Election type | | Politician type | | Party affiliation | | President's party | |
| | House | Senate | Chal- lengers | Incum- bents | Democrat | Republican | Different | Same |
| Winner | -0.028*** (0.011) | -0.046*** (0.011) | -0.043*** (0.009) | -0.013 (0.014) | -0.026** (0.012) | -0.037*** (0.012) | -0.029*** (0.010) | -0.034** (0.014) |
| Observations | 1,169 | 545 | 1,121 | 593 | 1,003 | 711 | 1,036 | 678 |
| Politicians | 129 | 36 | 110 | 64 | 88 | 77 | 89 | 80 |
| Directors | 802 | 376 | 801 | 440 | 701 | 500 | 717 | 502 |
| Firms | 906 | 456 | 922 | 517 | 805 | 609 | 834 | 598 |

Notes: This table reports the differential value of Congress-level connection to firms ΔV using the baseline RDD specification in equation (1). Columns (1) and (2) consider subsamples of House and Senate elections. Columns (3) and (4) compare challengers and incumbents. Columns (5) and (6) show results with Democrat and Republican politicians. Columns (7) and (8) compare politicians belonging and not belonging to the same party as the contemporaneous President.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A11: EFFECT BY FIRM SIZE AND STATE-LEVEL REGULATIONS

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|----------------------------|--------------------------------|---------------------|----------------------|---------------------|----------------------|----------------------|---------------------|---------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | |
| Firm/state sample | All firms | Very large firms | Smaller firms | Local firms | All states | High reg. states | Low reg. states | Local firms |
| Winner | -0.031*** (0.008) | 0.011 (0.014) | -0.038*** (0.009) | -0.047** (0.022) | -0.034*** (0.008) | -0.044*** (0.011) | -0.023** (0.009) | -0.045** (0.022) |
| W × ln(Market value) | 0.012** (0.005) | | | | | | | |
| W × State regulation index | | | | | -0.044** (0.017) | | | -0.083* (0.050) |
| <i>Difference</i> | | 0.049*** (0.016) | | | | -0.021 (0.014) | | |
| Observations | 1,714 | 194 | 1,520 | 443 | 1,714 | 861 | 853 | 443 |
| Politicians | 165 | 73 | 165 | 114 | 165 | 86 | 79 | 114 |
| Directors | 1,136 | 142 | 1,059 | 352 | 1,136 | 617 | 597 | 352 |
| Firms | 1,234 | 131 | 1,116 | 368 | 1,234 | 711 | 712 | 368 |

Notes: This table reports how the differential value of Congress-level connection to firms ΔV varies by the benefits of state- (β_1) and federal-level (β_2) connection to the firm, using the baseline RDD specification in equation (1). Column (1) interacts the treatment (i.e., being connected to a winning candidate) with ln(median-centered market value), so that the coefficient of Winner reflects the effect on the median firm size. Columns (2) and (3) compare subsamples of very large firms and smaller ones, distinguished at the threshold of market value above the median of S&P 500 firms; very large firms likely have large β_2 . Column (4) considers the subsample of local firms. A firm is classified as local if its headquarter is in the politician's state or within 500 kilometers of the state's capital; local firms likely have large β_1 . Column (5) interacts the treatment with the state regulation index in 1999; more state regulations imply large β_1 . Columns (6) and (7) compare subsamples of states with above-median and below-median state regulation index. Column (8) interacts the treatment with state regulation index among the subsample of local firms. All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A12: EFFECT BY CORPORATE GOVERNANCE AND RELATIONSHIP STRENGTH

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-------------------|----------------------|---------------------|----------------------------|---------------------|----------------------|---------------------|----------------------|---------------------|
| | Board size | | Institutional block shares | | State's trust level | | Reunion year | |
| Sample | < 10 | ≥ 10 | Large | Small | High | Low | On | Off |
| Winner | -0.054*** (0.018) | -0.004 (0.012) | -0.047*** (0.018) | 0.008 (0.016) | -0.042*** (0.011) | -0.020** (0.010) | -0.054*** (0.016) | -0.027** (0.011) |
| <i>Difference</i> | | -0.050** (0.024) | | -0.056** (0.026) | | -0.022 (0.015) | | -0.027 (0.019) |
| Observations | 679 | 486 | 502 | 516 | 835 | 840 | 515 | 864 |
| Politicians | 116 | 111 | 120 | 124 | 80 | 82 | 57 | 92 |
| Directors | 548 | 368 | 402 | 417 | 611 | 536 | 372 | 589 |
| Firms | 574 | 365 | 408 | 406 | 703 | 625 | 457 | 689 |

Notes: This table reports how the differential value of Congress-level connection to firms ΔV varies by the firm's ability to extract value from its political connection, using the baseline RDD specification in equation (1). Columns (1) and (2) compare subsamples of firms with board size of below and at least median (10) number of directors; small board size implies large β_1 and β_2 . Columns (3) and (4) compare subsamples of firms with at least and below median (20%) institutional block shares; large institutional block shares implies large β_1 and β_2 . Columns (5) and (6) compare subsamples of politicians from states with at least and below median generalized trust, calculated as the share of ANES respondents in the state responding positively to the standard trust question during the 2000-2008 period; higher generalized trust implies large β_1 and β_2 . Columns (7) and (8) compare subsamples in which the election year coincides or not with the alumni reunion year (if not missing); election in reunion year implies large β_1 and β_2 . All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

Table A13: EFFECT BY SCHOOL NETWORK CHARACTERISTICS

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------|---------------------------------------|--------------------------|----------------------|--------------------------|----------------------|--------------------------|---------------------|---------------------|-------------------|
| | Dependent variable: CAR(-1, 5) | | | | | | | | |
| Network definition | At most one year apart | | | | | | Alumni | | |
| Network sample | Harvard | Others | Big network | Others | Ivy League | Others | Harvard | Big network | Ivy League |
| Winner | -0.065*** (0.021) | -0.029*** (0.008) | -0.053*** (0.014) | -0.029*** (0.008) | -0.039*** (0.012) | -0.029*** (0.011) | -0.021** (0.010) | -0.020** (0.008) | -0.011 (0.008) |
| <i>Difference</i> | | <i>-0.036</i> (0.022) | | <i>-0.025</i> (0.015) | | <i>-0.011</i> (0.016) | | | |
| Observations | 205 | 1,509 | 336 | 1,378 | 658 | 1,056 | 5,523 | 7,088 | 11,497 |
| Politicians | 21 | 156 | 25 | 152 | 38 | 145 | 23 | 28 | 44 |
| Directors | 141 | 997 | 243 | 895 | 387 | 751 | 795 | 1,518 | 2,625 |
| Firms | 173 | 1,099 | 295 | 1,000 | 489 | 829 | 1,013 | 1,653 | 2,368 |

Notes: This table reports how the value of Congress-level connection to firms ΔV varies with the university network characteristics, using the baseline RDD specification in equation (1). Columns (1) and (2) compare Harvard and non-Harvard networks. Columns (3) and (4) compare three most represented networks in our director sample (Harvard University, Stanford University, and the University of Pennsylvania) and the remaining networks. Columns (5) and (6) compare Ivy League and non-Ivy League networks. Columns (7) to (9) consider the full alumni network of Harvard University (column 7), column (3)'s top three universities (column 8), and Ivy League schools (column 9). All standard errors are clustered by politician.

*** denotes statistical significance at 1% level, ** 5% level, * 10% level.

B Theoretical framework on favoritism and career concerns

In this section we illustrate the trade-off between favoritism benefits and career concerns in a setting when both power to give favors and scrutiny over favoritism matter. We clarify the intuitions and connect the parameters that determine favoritism to testable implications in our empirical RDD framework of close Congress elections. We highlight that the relative balance of power versus scrutiny between high and low positions is the key determinant of the differential value of favoritism between elected and defeated, which is the key estimate in the empirics.

We consider the politician’s career dynamic between two stylized types of political positions, namely high versus low, that differ in both the power to favor connected firms and the level of institutional checks and balances over favoritism. Empirically, the high office corresponds to seats in Congress, and the low office to positions outside Congress, with focus on state-level politics.⁴¹

The politician’s career consists of a sequence of positions s in consecutive terms $(s_t)_{t=1,\dots,T}$: in each term t , $s_t = 2$ (1) designates the high (low) position. The transition matrix $\mathbf{P}_t = [P_{ijt}]_{i,j \in \{1,2\}}$ indicates the probabilities of transition P_{ijt} from state $s_t = i$ in term t to state $s_{t+1} = j$ in term $t + 1$. For simplicity, we assume the following functional form, with $\gamma_2 \geq \gamma_1 > 0$ as the marginal costs of favoritism on the politician’s future (thus the relative marginal cost $\gamma \stackrel{def}{=} \frac{\gamma_2}{\gamma_1} \geq 1$).⁴²

$$\begin{aligned} P_{11}(x_1) &= \gamma_1 x_1 + P_{11}(0), & P_{12}(x_1) &= -\gamma_1 x_1 + P_{12}(0) \quad (= 1 - P_{11}(x_1)), \\ P_{21}(x_2) &= \gamma_2 x_2 + P_{21}(0), & P_{22}(x_2) &= -\gamma_2 x_2 + P_{22}(0) \quad (= 1 - P_{21}(x_2)). \end{aligned}$$

The politician chooses career-long sequences of the level of favoritism targeted towards its connected firm $x_{st} \in [0, \bar{x}]$, which produces $v_s(x_{s,t})$ for the firm per term t in state s . The firm’s expected present value from the stream of $v_s(x_{s,t})$ is denoted $V_{s,t}$. We further assume a simple proportional sharing rule for the politician’s kickback gain of $w_s(x_{st}) = \frac{1}{\rho} v_s(x_{st})$ each term, with the functional forms $w_1(x_1) = \sqrt{\beta_1 x_1}$ and $w_2(x_2) = \sqrt{\beta_2 x_2}$, with $\beta_2 \geq \beta_1 > 0$ as measures of power (thus the relative power $\beta \stackrel{def}{=} \frac{\beta_2}{\beta_1} \geq 1$).⁴³ Besides $w_s(x_{st})$, the politician’s other benefits from holding position s is denoted r_s , with $r_2 > r_1 > 0$. Those benefits accumulate to the expected present value $W_{s,t}$, which is his maximand.

We now define the firm’s and politician’s differences in values across positions as in Definition 1, recopied below:

Definition 1 $\Delta V_t \stackrel{def}{=} V_{2,t} - V_{1,t}$ is the firm’s differential value from its connection to the politician’s higher position versus the lower position (in short, the differential value of connection). Analogously, $\Delta W_t \stackrel{def}{=} W_{2,t} - W_{1,t}$ is the politician’s differential value.

ΔV_t is the main focus of our empirical analysis, as changes in V_s naturally maps to observed changes in firm’s stock value.

To assure the existence and uniqueness of the equilibrium, we further make the following standard functional form assumptions:

Assumption B.1 Assume that $w(\cdot)$ and $v(\cdot)$ are increasing, concave, and differentiable, and P_{22} and P_{12} (P_{21} and P_{11}) are decreasing (increasing) convex functions of x .

⁴¹Our dynamic modeling of a politician’s career concern with finite horizon follows Barro’s (1973) and Becker and Stigler’s (1974) tradition. We incorporate the voter’s decision problem into a reduced-form negative relationship between favoritism and electoral success.

⁴²The transition can be thought of mainly, but not only, as electoral contests, and the transition probabilities as electoral success chances. By definition, $P_{11} + P_{12} = P_{21} + P_{22} = 1$. We further assume $P_{22}(0) > P_{12}(0)$, expressing the incumbency advantage in Congress elections (Erikson, 1971, Lee, 2008).

⁴³The functions $w(\cdot)$ and $v(\cdot)$ may represent different forms of benefits, such as the firm’s new or better contracts, support for the firm when under financial distress, and illicit private payment or political contribution to the politician. In many cases, favoritism involves favor trading with other political and government actors, which is by nature hard to observe. On this topic, see Karlan et al. (2009) for a model of favor trading on networks, and Do et al. (2017) on favoritism by officials without direct authority through favor trading.

The politician's dynamic problem can be written in the following Bellman equations, such that the politician chooses the optimal amounts $x_{s,t}^*$, $s \in \{1, 2\}$, to maximize $W_{s,t}$, given the future expected values $W_{s',t+1}$, $s' \in \{1, 2\}$, discount factor $\delta \in (0, 1)$ and transition probabilities $P_{ss't}(x_{s,t})$.

$$\begin{aligned} W_{1,t} &= \max_{x_{1,t}} [r_1 + w_1(x_{1,t}) + \delta P_{11,t}(x_{1,t})W_{1,t+1} + \delta P_{12,t}(x_{1,t})W_{2,t+1}], \\ W_{2,t} &= \max_{x_{2,t}} [r_2 + w_2(x_{2,t}) + \delta P_{21,t}(x_{2,t})W_{1,t+1} + \delta P_{22,t}(x_{2,t})W_{2,t+1}]. \end{aligned} \quad (\text{B.1})$$

$$\begin{aligned} V_{1,t} &= v_1(x_{1,t}^*) + \delta P_{11,t}(x_{1,t}^*)V_{1,t+1} + \delta P_{12,t}(x_{1,t}^*)V_{2,t+1}, \\ V_{2,t} &= v_2(x_{2,t}^*) + \delta P_{21,t}(x_{2,t}^*)V_{1,t+1} + \delta P_{22,t}(x_{2,t}^*)V_{2,t+1}, \end{aligned} \quad (\text{B.2})$$

with $t \in \{1, 2, \dots, T\}$ and $W_{s,T+1} = V_{s,T+1} = 0$, $s \in \{1, 2\}$. We consider a finite-horizon (nonstationary) problem to illustrate the evolution of the values of connections. The infinite-horizon, stationary problem, in which T is replaced by ∞ yields similar predictions on the comparative statics of ΔV with respect to the parameters of interest.

The state-differences among equations B.1 and B.2 yield the following recursive dynamic:

$$\Delta W_t = \Delta r + \Delta w_t + \delta \Delta \tilde{P}_t \Delta W_{t+1}, \quad (\text{B.3})$$

$$\Delta V_t = \Delta v_t + \delta \Delta \tilde{P}_t \Delta V_{t+1}, \quad (\text{B.4})$$

with $t \in \{1, \dots, T-1\}$, and $\Delta \tilde{P}_t \stackrel{def}{=} P_{11,t} - P_{21,t} = P_{22,t} - P_{12,t} \geq 0$.

We first establish the model's unique equilibrium and the related first order conditions:

Proposition B.1 *The model admits a unique equilibrium $(x_{s,t}^*, W_{s,t})_{t=1, \dots, T, s \in \{1, 2\}}$. In the last period $x_{s,T}^* = \bar{x}$, and for all $t < T$ the following first order conditions hold:*

$$\begin{aligned} w'_1(x_{1,t}^*) - \delta P'_{11,t}(x_{1,t}^*) \Delta W_{t+1} &= 0, \\ w'_2(x_{2,t}^*) - \delta P'_{21,t}(x_{2,t}^*) \Delta W_{t+1} &= 0. \end{aligned} \quad (\text{B.5})$$

Proof. Those first order conditions are derived directly from the optimization problem in equations (B.1). Existence and unicity of $x_{s,t}^*$, given $W_{s,t+1}$ are obtained from the assumptions on $w_s(\cdot)$ and $P_{ss'}(\cdot)$. At the terminal point, future career no longer matters as $\Delta W_{T+1} = 0$, so $x_{1,T}^* = x_{2,T}^* = \bar{x}$. Backward induction then yields the unique solution $(x_{s,t}^*, W_{s,t})_{t=1, \dots, T}$. ■

We focus on the case the politician always prefers higher office, so $\Delta W_t > 0 \forall t \leq T$ (e.g., when Δr is sufficiently large). The FOCs yield the following solution for $t \in \{1, \dots, T-1\}$, which allows the calculation of the full path of favoritism together with equations (B.3) and (B.4):

$$\begin{aligned} x_{1,t}^* &= \frac{\beta_1}{(2\delta\gamma_1)^2} \Delta W_{t+1}^{*-2}, & x_{2,t}^* &= \frac{\beta_2}{(2\delta\gamma_2)^2} \Delta W_{t+1}^{*-2}, \\ \Delta v_t^* &= \rho \Delta w_t^* = \frac{\rho B}{2\delta} \Delta W_{t+1}^{*-1} \quad \forall t < T, & \text{with } B &\stackrel{def}{=} \frac{\beta_2}{\gamma_2} - \frac{\beta_1}{\gamma_1} = (\beta - \gamma) \frac{\beta_1}{\gamma_2}, \\ x_{1,T}^* &= x_{2,T}^* = \bar{x}, & \Delta V_T^* &= \Delta v_T^* = \sqrt{\bar{x}}(\sqrt{\beta_2} - \sqrt{\beta_1}). \end{aligned} \quad (\text{B.6})$$

Per-period favoritism $x_{s,t}^*$ is decreasing in the politician's relative value of high office in the next period ΔW_{t+1}^* , and given ΔW_{t+1}^* , $x_{s,t}^*$ is increasing in power β_s , but decreasing in scrutiny γ_s . The net present value of favoritism from a higher position, ΔV_t^* , follows a more nuanced pattern, as previously stated in Proposition 1, recopied below:

Proposition 1 (i) *If power trumps scrutiny, in that $\beta \geq \gamma$, then the connected firm draws higher net present benefit when the politician attains higher office, namely $\Delta V_t^* \geq 0 \forall t$.*

(ii) *If scrutiny trumps power, in that $\beta < \gamma$, and T is big enough, then there exists a time \bar{t} before which there is an adverse effect of higher position on the net present value of favoritism: $\Delta V_t^* < 0 \forall t < \bar{t}$. After \bar{t} , ΔV_t^* is positive and increasing in t .*

Proof of Proposition 1. First, note that $\Delta v_t \geq 0$ iff power trumps scrutiny. Proposition B.1 also implies that in the last period $\Delta V_T = \rho \Delta w_T(\bar{x}) > 0$. When power dominates in the first case, δv_t^* is positive in all periods following equation (B.6), hence the conclusion obtains immediately for ΔV_t .

In the second case, we apply backward induction using equation (B.4) from $t = T$ down to $t = 1$. Since $\Delta v_t^* \leq 0$ when scrutiny dominates, and because $\delta \Delta \tilde{P}_t \in (0, 1)$, $\Delta V_t < \Delta V_{t+1}$ whenever $\Delta V_{t+1} > 0$. When the sequence ΔV_t eventually reaches below zero as t decreases to a value $\bar{t} - 1$ (which is inevitable when T is large enough), the monotonicity of ΔV_t no longer holds necessarily. However, for all $t < \bar{t}$, equation (B.4) guarantees that $\Delta V_t < 0$. ■

Intuitively, the relative balance between power and scrutiny B (equation (B.6)) is key to the adverse effect of higher position. When it tilts towards scrutiny, in each period the firm would benefit *less* when the politician attains a higher position ($\Delta v_t^* < 0$) and chooses to reduce favoritism to preserve his career. However, by the end of his career, as electoral concerns ease, the net present value of higher position ΔV_t^* increases towards its terminal value Δv_T^* , which is positive. Over the politician's career, ΔV_t^* follows a loosely upward longterm trend,⁴⁴ as it is negative at an early stage, but becomes positive and increasing in late career. This career pattern follows from Olson's (1993) famous "roving bandit vs. stationary bandit" intuition, as a shorter horizon implies less electoral control on the politician, who would be more willing to engage in favoritism.⁴⁵

Next are the comparative statics with respect to the key parameters of power and scrutiny, which will be tested in corresponding comparative situations in sections 5.2 and 5.4 (previously stated in proposition 2, recopied below):

Proposition 2 *When scrutiny trumps power, in presence of the adverse effect of higher position ($\Delta V_t < 0$), its magnitude $|\Delta V_t|$ increases with B 's magnitude ($B < 0$), e.g., when:*

- β_2 decreases and/or β_1 increases,
- both increase while their ratio β remains the same,
- γ_2 increases and/or γ_1 decreases,
- both decrease while their ratio γ remains the same.

Proof of Proposition 2. We focus on the case when scrutiny trumps power and an increase in $B < 0$ (i.e., a decrease in its magnitude) in the four cases described in Proposition 2.⁴⁶ First, we expand the recursive solution formula of ΔW_t as follows:

$$\begin{aligned} \Delta W_t &= \Delta r + \frac{B}{2\delta\Delta W_{t+1}} + \delta \left[-\frac{B}{4(\delta\Delta W_{t+1})^2} + P_{22}(0) - P_{12}(0) \right] \Delta W_{t+1} \\ &= \Delta r + \frac{B}{4\delta\Delta W_{t+1}} + \delta\Delta\tilde{P}_0\Delta W_{t+1} \quad \text{with} \quad \Delta\tilde{P}_0 \stackrel{def}{=} P_{22}(0) - P_{12}(0). \end{aligned}$$

As $B < 0$, the right hand side expression is increasing in both B and ΔW_{t+1} . Therefore, when B increases towards 0, the whole path $(\Delta W_t)_{t=1, \dots, T}$ increases.

It gets more complicated to show the monotonicity of the path of $(\Delta V_t)_{t=1, \dots, T}$ when B changes, since this sequence also depends directly on the sequence $(\Delta W_t)_{t=1, \dots, T}$. To do so, we first write the solution formula of ΔV_t in a more tractable way:

$$\begin{aligned} \Delta V_t &= \frac{\rho B}{2\delta\Delta W_{t+1}} + \delta \left[-\frac{B}{4(\delta\Delta W_{t+1})^2} + \Delta\tilde{P}_0 \right] \Delta V_{t+1} \\ &= \frac{B}{2\delta\Delta W_{t+1}} \left[\rho - \frac{\Delta V_{t+1}}{2\Delta W_{t+1}} \right] + \delta\Delta\tilde{P}_0\Delta V_{t+1} \quad . \end{aligned} \tag{B.7}$$

⁴⁴The upward trend is only 'loosely' so, as one cannot establish the monotonicity of ΔV_t when it is negative, although the monotonicity is more pronounced when $\Delta\tilde{P}_t$ is closer to 1 (i.e., strong incumbency advantage). As the career becomes very long (large T), going backward towards $t = 0$, ΔV_t converges to a fixed negative value.

⁴⁵In this model, we simply incorporate a politician's deeper entrenchment into his power parameters. See Campante et al. (2009) for an analysis of the combination of both this entrenchment effect and the politician's horizon effect.

⁴⁶Because ΔW_T and ΔV_T depend directly on β_2 and β_1 , a change in B does not guarantee a monotonic change in ΔW_T and ΔV_T . The comparative statics still hold separately with respect to changes in the β_s 's and γ_s , but only approximately with respect to a change in B .

Next, note that the difference between ΔV_t and $\rho\Delta W_t$ is the discounted sum of the stream of Δr , with the discount factors being the products of the by-period discount factor $\delta\Delta\tilde{P}_t$. This statement is best proved by induction from $t = T$ down to $t = 0$. Indeed, denote recursively this difference as R_{t+1} in $\Delta V_{t+1} + R_{t+1} = \rho\Delta W_{t+1}$, we obtain $\Delta V_t + R_t = \rho\Delta W_{t+1}$ with $R_t = \Delta r_t + \delta\Delta\tilde{P}_t$. This recursive formula implies that R_t is a discounted sum of the stream of Δr .

Each discount factor $\delta\Delta\tilde{P}_t = \delta \left[-\frac{B}{4(\delta\Delta W_{t+1})^2} + P_{22}(0) - P_{12}(0) \right]$ decreases as B increases towards 0, since ΔW_{t+1} increases while $|B|$ decreases. Hence the compound products of those discount factors over $t \in \{k+1, \dots, T\}$ decrease as well. Therefore, R decreases when B increases. Since $\Delta V_t = \rho\Delta W_t - R_t$, it follows that when B increases, ΔV_t increases even more than ΔW_t , therefore ΔV_t is increasing in B . ■

Remark that, as the whole path of $(\Delta V_t)_{t=1, \dots, T}$ increases following an increase in B towards 0, it follows that the moment \bar{t} through which ΔV_t switches sign (from negative before \bar{t} to positive after \bar{t}) decreases. That is, ΔV_t switches sign earlier, thus the adverse effect of promotion on connected firm's value becomes less prevalent.

C Empirical methodology

C.1 Estimation of cumulative abnormal returns

For each company's stock i , its daily return on day t is defined from daily stock price $P_{i,t}$ as $R_{i,t} = \frac{P_{i,t}}{P_{i,t-1}} - 1$. Related to an event (an election in our case) on day 0, stock i 's market model $R_{i,t} = \alpha_i + \beta_i R_{m,t} + \epsilon_{it}$ is estimated from the time series of the market daily returns $R_{m,t}$ over the window (-351,-61) counting from the event day (including both starting and end days), where $R_{m,t}$ is the market's return on day t . Abnormal returns on day t is then calculated as $AR_{i,t} = R_{i,t} - (\hat{\alpha}_i + \hat{\beta}_i R_{m,t})$. Cumulative abnormal returns over the benchmark window (-1,5) are calculated as

$$CAR_i^{(-1,5)} = \sum_{t=-1}^5 AR_{i,t} = \sum_{t=-1}^5 \left[R_{i,t} - (\hat{\alpha}_i + \hat{\beta}_i R_{m,t}) \right]. \quad (\text{C.8})$$

In robustness checks, we also calculate CARs that take into account other moments in the estimation of $AR_{i,t}$, following Fama and French's (1993) three-factor model or Carhart's (1997) four-factor model.

CARs sum up changes in a firm's stock price over the benchmark window, filtering out a function of the stock's pre-event data (as encompassed in the estimators $\hat{\alpha}_i$ and $\hat{\beta}_i$ and market-wide data that vary only by the time dimension. Its cross-sectional variation maps directly to the variation in the changes of the value of connection V , assuming no other event takes place at the same time.

Given that close elections' results can be considered as almost-random draws, they must be independent of the aforementioned part that is filtered out from the sum of raw returns in CARs. Therefore, we should expect that estimates using CARs calculated from different market models (with either one, three, or four factors) as the outcome variable do not differ from estimates that use the sum of raw returns instead. This prediction is confirmed in Appendix Table A5's Panel B. While the choice of the market model should not affect the magnitude of the estimates, the appropriate model choice may help reduce the noises inherent in stock returns, which may help improve the estimates' precision.

C.2 Semi-parametric estimation of heterogeneous effects

Following Do et al. (2017), we modify equation (1)'s baseline RDD specification to examine the heterogeneous effects of having Congress-level connection on firm value as a non-parametric function $\beta(\cdot)$ of a variable of interest x :

$$CAR_{idt} = \beta(x)Winner_{pt} + \delta_W(x)VS_{pt}\mathbb{1}_{\{VS_{pt} \geq 50\%\}} + \delta_L(x)VS_{pt}\mathbb{1}_{\{VS_{pt} < 50\%\}} + \epsilon_{idpt}. \quad (\text{C.9})$$

We first define the percentiles of x as $p_x \in [0, 1\%, \dots, 100\%]$. The function $\beta(\cdot)$ is estimated from semi-parametric local linear regressions based on equation (1) at each value over a grid of 101 points of p_x (the focal point). In each local regression around x , each observation at a percentile q is weighted by a Gaussian

kernel function $\frac{1}{\sqrt{2\pi}} \exp\left[-\frac{1}{2} \left(\frac{q-p_x}{b}\right)^2\right]$, with a bandwidth equal to 20%. The shape of the estimated function $\beta(\cdot)$ remains robust to a broad range of cross-validated bandwidths.