

**Is It Whom You Know or What You Know?
An Empirical Assessment of the Lobbying Process**

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Abstract

Do lobbyists provide issue-specific information to members of Congress? Or do they provide special interests access to politicians? We present evidence to assess the role of issue expertise versus connections in the US Federal lobbying process and illustrate how both are at work. In support of the connections view, we show that lobbyists follow politicians they were initially connected to when those politicians switch to new committee assignments. In support of the expertise view, we show that there is a group of experts that even politicians of opposite political affiliation listen to. However, we find a more consistent monetary premium for connections than expertise.

Keywords: Lobbying, Special Interest Politics, Political Access, Expertise, Advocacy, Information Intermediation.

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1 Introduction

At the intersection between the political and the economic spheres lies the lobbying industry. Trillions of dollars of public policy intervention, government procurement, and budgetary items are constantly thoroughly scrutinized, advocated, or opposed by representatives of special interests. The sheer relevance of the 4 billion dollars federal lobbying industry has become evident in any aspect of the 2008-2009 financial crisis, including emergency financial market intervention (the TARP), financial regulation, countercyclical fiscal policy intervention, and healthcare reform.¹ Notwithstanding its perceived fundamental role in affecting economic policy, very little systematic empirical research about the lobbying industry is available to economists and political scientists alike. A large part of the theoretical literature on interest groups has painted the lobbying process as one of information transmission: informed interest groups send cheap or costly signals to uninformed politicians.² However, these stylized models of lobbying do not account for the presence of the lobbying industry as an intermediary. In this paper, we propose to study the role that the lobbyists themselves play in the lobbying process, how they use their specific skills and assets, and which of these skills and assets are particularly valuable to the interest groups that hire them.

What might be the lobbyists' role in the lobbying process? According to one view, lobbyists are the experts who provide information to legislators and help guide their decision-making process. Their expertise might be particularly valuable when one considers that neither legislators nor the interest groups that hire lobbyists may have the technical background or the time to delve into the detailed implications of all the pieces of legislation that are under consideration.

¹ See for instance Birnbaum (2008): *"A key provision of the housing bill now awaiting action in the Senate -- and widely touted as offering a lifeline to distressed homeowners -- was initially suggested to Congress by lobbyists for major banks facing their own huge losses from the subprime mortgage crisis[...]"* or Pear (2009): *"In the official record of the historic House debate on overhauling health care, the speeches of many lawmakers echo with similarities. [...] Statements by more than a dozen lawmakers were ghostwritten, in whole or in part, by Washington lobbyists working for Genetech, one of the world's largest biotechnology companies."*

² Grossman and Helpman (2001) offer an exhaustive literature review. The basic idea is that interest groups, although known to be biased, are credible to the politician if their preferences are sufficiently aligned with the politician's own preferences or the information they send is costly (or if it can be verified). Among the most prominent contributions are Crawford and Sobel (1982), Calvert (1985), Potters and Van Winden (1992), Austen-Smith (1994, 1995). A few papers have looked at the interactions between the two tools available to interest groups (information transmission and campaign support), e.g., Austen-Smith (1995), Lohman (1995), and more recently, Bennedsen and Feldmann (2006).

In contrast to this view, many in the media and on the street hold the view that lobbyists' main asset is not *what* they know, but instead *whom* they know.³ In interviews with insiders, McGrath (2006) reports that “*there are three important things to know about lobbying: contacts, contacts, contacts.*” Under this alternative view, lobbyists' key asset is not their expertise, but instead their access to various members of Congress through personal, and possibly also financial, connections.⁴ While this view of lobbyists' role does not rule out a flow of information from interest groups to politicians, it excludes that lobbyists are the source of information.

In this paper, we combine multiple data sources to help inform our thinking about these two views of lobbyists. The data set we assembled represents the entire federal lobbying industry in the US. We employ lobbying records as maintained by the Senate Office of Public Records (SOPR), lobbyists' campaign contribution donations from the Federal Election Commission, and biographical information for a subset of lobbyists that we collect from an online registry. We develop measures of lobbyists' connections to politicians and lobbyists' expertise. Our measure of issue expertise is based on considering the entire set of lobbying records that are associated with a given lobbyist and evaluating how narrow or broad the range of issues a lobbyist's name is associated with is. While we cannot directly observe lobbyists' contacts with politicians, we propose to proxy for it with information on the campaign contributions that lobbyists make to various politicians and members of Congress.⁵

We start by demonstrating that lobbyists' connections to politicians are a significant determinant of what legislative issues they work on. Specifically, a lobbyist that works on health care-related issues is systematically more likely to be connected (through campaign contributions) to legislators whose

³ See Salisbury et al. (1989) for an early discussion and test based on surveys of lobbyists and Apollonio, Cain and Drutman (2008, section B), for a recent discussion.

⁴ We note, however, that such a view of lobbyists does not necessarily imply (even though it could be associated with) a quid-pro-quo aspect of the lobbying process. According to the “quid-pro-quo” view, politicians either modify their electoral platform or implement policies when in office and receive in exchange valuable campaign contributions that are used more or less directly to sway voters. A large number of models with different objectives share this fundamental “quid-pro-quo” approach. A non-exhaustive list of papers that have employed this approach includes Austen-Smith (1987), Baron (1989), Baron (1994), Snyder (1990), Snyder (1991), Grossman and Helpman (1994), Dixit et al. (1997) and Besley and Coate (2001). Bombardini and Trebbi (2009) explore the interaction between monetary support and direct votes promised by interest groups but essentially maintain the quid-pro-quo approach. This strand of the literature has received a lot of attention from the empirical point of view, in particular in its application to the literature on endogenous trade policy (Goldberg and Maggi, 1999).

⁵ Wright (1990) is among the first to report a positive correlation between lobbying contacts and campaign contributions, and Ainsworth (1993) underscores that “indeed, there is evidence that campaign contributions appear to be most useful as predictors of access (Grenzke 1989; Herndon 1982; Langbein 1986).”

committee assignments include health care. In support of a causal interpretation of this pattern, we show, more strikingly, that lobbyists switch issues in a predictable way as the legislators they are connected to through campaign donations switch committee assignments. So, for example, a lobbyist that is connected to a legislator whose committee assignment includes health care in one Congress is more likely to cover defense-related issues in the next Congress if the legislator he or she is connected to is re-assigned to defense in the next Congress. These first results are consistent with Blanes-i-Vidal, Draca, and Fons-Rosen (2010), who show that those lobbyists who have past experience as senatorial aides lose revenues when their Senator leaves office.

We interpret these results as evidence that lobbyists' personal contacts to politicians are a relevant asset in defining their job. Yet, this evidence does not per se imply that lobbyists' expertise about certain topics is irrelevant to their job, as we indicated above. Connections may simply be a way for lobbyists to gain access to time-constrained politicians, "*a chance to 'tell their story'*" (Sabato, 1985). Once access has been gained, the lobbyists may still provide useful information to politicians. We argue that some systematic patterns we observe in the data about the structure of the personal connections between lobbyists and politicians provide at least indirect support for the view that lobbyists' issue expertise is also a relevant asset in defining their job (this is a prevalent view in the informational lobbying literature). Specifically, we find that, among the lobbyists who are connected to a given politician, a larger share of experts than non-experts have opposite party affiliation to the politician. We argue that this pattern is consistent with the prediction of standard informational lobbying models such as Krishna and Morgan (2001) and Helpman and Grossman (2001), where a receiver is better informed if she receives a signal from senders with opposite biases. More intuitively, while politicians primarily maintain relationships with lobbyists of the same political orientation, they do appear more likely to cross the aisle when talking to experts, as would be expected if the politicians were trying to improve their information acquisition.

While the lobbyists' job may rely on both their personal contacts and their knowledge of more technical legislative issues, these two assets may differ in how scarce or easily replicable they are. This leads us to the final question we address in this paper: what are lobbyists paid for? Do interest groups that hire lobbyists mainly pay for access to their connections or access to their expertise? Using information on the dollar value attached to lobbying reports, we show that both carry a positive premium, i.e. expert lobbyists and connected lobbyists are paid more on average. Nevertheless, when comparing the evidence

on the two premia, we argue that lobbyists' connections are a scarcer resource than their expertise as they are more consistently associated with a positive revenue premium. Further supporting this view, we find evidence of "political cycles" in the returns to lobbying, documenting an increase in the returns to lobbyists associated with a given party when that party is in power. In contrast, we find no evidence that the return of a specialized lobbyist increases when his or her issue becomes legislatively "hot"; instead, it seems that most of the adjustment during a boom is through additional entry of non-specialists who start lobbying on that issue.

The battery of tests and pieces of evidence lead us to the conclusion that the lobbying process is a complex activity where both the personal connections and issue expertise of the lobbyists play a role. However the evidence on returns points to connections being the scarcer resource,⁶ and is rather consistent with a scenario where lobbyists connected to a given politician are valuable because they have a deep knowledge of that politician's constituency,⁷ and/or have built a relationship of trust and credibility with that politician. Lobbyists are likely to be communicating information, but their returns are seemingly more related to the complementary asset they bring to the table and to their role as intermediaries in the transmission of information. Overall, the evidence seems to reject a view that unilaterally espouses either the informational story or the connection story as a single, stand-alone driving force of this industry.

The rest of the paper proceeds as follows. We first describe the pool of lobbyists and present some summary statistics on their professional background (Section 2). We then define our measures of connections and expertise (Section 3). Section 4 presents tests of whether and how connections to politicians affect what lobbyists work on. Section 5 presents indirect evidence of informational transfer between lobbyists and politicians. Section 6 presents our analysis of the premia associated with issue expertise and connections, along with an analysis of returns over "issue cycles" and "political cycles." We conclude in Section 7. An online Appendix includes all the descriptive Tables and our robustness checks.

⁶ Incidentally, it is easy to verify that large lobbying firms like Patton Boggs LLP or Cassidy and Associates employ few individuals with background that points to specific technical training, even when the lobbying covers technical issues such as biotechnology or nuclear energy. See Appendix Table A1 where report information extracted from the biographies of lobbyists posted online by the lobbying firms.

⁷ Hansen (1991) suggests that "Lawmakers operate in highly uncertain environments. They have an idea of the positions they need to take to gain reelection, but they do not know for sure. Interest groups offer to help . . . They provide political intelligence about the preferences of congressional constituents."

2 The Lobbyists

We use lobbying registration information from the Senate Office of Public Records (SOPR) to build a database of lobbyists for the period from 1999 to 2008.⁸ Each of the records filed with SOPR contains not only the name of the reporting firm and the name of the client firm or organization, but also the names of the individual lobbyists involved in this specific lobbying case. It is therefore possible to use the lobbying records to construct a database that contains the names of all lobbyists that were active at the federal level over the last decade.⁹ We identify about 37,000 individual lobbyists between 1999 and 2008. The SOPR data also allow us to separate the lobbyists into two sub-groups based on whether they are in-house lobbyists (these are the cases where the registering firm is the same as the client firm in the lobbying report) or whether they work for a lobbying firm that is representing another organization (the cases where the registering firm is different from the client firm). In what follows, we refer to the former group as the “internal” (or in-house) lobbyists and to the latter group as the “external” lobbyists.¹⁰ We can also use the SOPR data to compute the following for each lobbyist*year observation: number of years of experience (with the caveat of the right-tail truncation), and number of records the lobbyist name is attached to in a given year. Furthermore, we can compute how many years a given lobbyist appears as active over the sample period (10 years at most).

⁸ Data on lobbying expenditures from the Senate Office of Public Records has been previously employed in a very small number of papers, some of which utilize only a very limited subset of the available information. Ansolabehere, Snyder and Tripathi (2003) focus on the link between campaign contributions and lobbying and show that the two are correlated, a result which is consistent with a view that campaign contributions are a way for interest groups to buy access to politicians. Once access is gained, lobbyists have a chance to voice the interests of their clients. The paper also shows that the pattern of campaign contributions varies according to the intensity of lobbying of a given group. Baumgartner and Leech (2001) offer a partial analysis of the distribution of lobbyists across issues, finding high concentration in some issues and very low in others. Bombardini and Trebbi (2008) study trade association lobbying in international trade, while Igan, Mishra and Tressel (2009) and Mian, Sufi and Trebbi (2010) study lobbying by home mortgage firms during the US housing market expansion. Finally, Drutman (2011) and Kerr, Lincoln, and Mishra (2011) study empirically the decisions of firms to lobby and de Figueiredo and Silverman (2006) focus on the lobbying decisions of universities.

⁹ Any type of information provision and research activity related to contacts to politicians requires registration. From the Office of the Clerk, Lobbying Disclosure Act Guidance: “*Lobbying activity is defined in Section 3(7) as ‘lobbying contacts and efforts in support of such contacts, including . . . background work that is intended, at the time it is performed, for use in contacts, and coordination with the lobbying activities of others.’ If the intent of the work is to support ongoing and future lobbying, then it would fall within the definition of lobbying activities.*” Any individual paid to perform such activities in excess of 20% of his work time and who establishes more than one lobbying contact with a politician over a quarter has to register as lobbyist.

¹⁰ If a lobbyist ever appears as both internal and external in a given year, we arbitrarily categorize her as external in that year. When we collapse the panel data at the lobbyist level, we also categorize as external a lobbyist that appears both as internal and external in different sample years.

We rely on www.lobbyists.info to obtain additional time-invariant background information about the lobbyists we identify in the lobbying records. This website, which was originally derived from the directory “Washington Representatives” and is maintained by Columbia Books & Information Services (CBIS), is the best information source we are aware of on US federal lobbyists. Often included on the website are short biographies that allow us to further profile the lobbyists. In particular, we searched for specific strings in this online directory to build a set of background experience indicators, such as whether a lobbyist has “Republican” or “Democrat” associations, whether the lobbyist has “House” or “Senate” or “White House” experience, or whether the lobbyist is referred to as “Hon.” (the explicit title for former members of Congress).¹¹ Not all lobbyists identified in the SOPR data appear on www.lobbyists.info; in practice, we found about 14,000 of the 37,000 lobbyists identified in the SOPR data in www.lobbyists.info.¹²

Table 1 summarizes the lobbyist-level data. The unit of observation is a lobbyist and all lobbyists are equally weighted to compute these summary statistics. About 40 percent of lobbyists work in-house.¹³ The average lobbyist appears in the data for about four years and has nearly two years of experience; he/she is associated with about 5 lobbying records in a typical active year. Among those lobbyists that we can find in www.lobbyist.info, 97 percent have some biographical information associated with their name. Among those, about 11 percent have some association with the Republican party and about 9.8 percent with the Democratic party. A bit more than 1 percent of the lobbyists for which we could find biographical information are former members of Congress.¹⁴ About 2 percent of the biographies

¹¹ To be specific, we first downloaded the whole directory by running a blank search on the database. Second, we ran a series of searches conditional on matching certain strings of text in the bio, like "senate" or "house" or "Democrat", etc. Third, we merged together every single list against the whole set of lobbyists, generating a dummy conditional on the matching being successful (i.e. you get Democrat=1 if you are in the output of that search). Prior to converging on this coding method, we run about 200 manual spot searches to check that the method was producing reliable results.

¹² Given that we downloaded the directory information in 2009, we are more successful at identifying lobbyists that were active in the later part of the sample period than lobbyists that were active in the first few years. The match rate varies between the upper 30 percents at the beginning of the period to the mid 60 percents towards the end. Those lobbyists that can be identified in www.lobbyists.info typically have more years of experience and are associated with more lobbying records in each active year. See Table 1.

¹³ A widely held view of internal lobbyists is of watchdogs monitoring the day-to-day activity of Congress flagging potential issues of interests for their company (and calling in the professional external lobbyists when necessary). Such activity does not appear to require any particular expertise or connections. Hrebenar and Morgan (2009) highlight how many of the in-house lobbyists are also not full-time lobbyists and are often volunteer or amateur lobbyists, especially with regard to groups dealing with moral, environmental, or religious issues.

¹⁴ A majority of those are ex-House Representatives, and about equal shares come from the right and left wings of the political spectrum (.7 percent and .6 percent, respectively).

mention some experience in the White House. There is also a large representation of former “aides” (11 percent) and individuals with experience in senators’ offices (around 10 percent).¹⁵ We refer to Bertrand, Bombardini and Trebbi (2011) for a description of how lobbyists’ background has evolved over time.

3 Measuring Connections and Expertise

3.1 Connections

A common view is that lobbyists’ main asset is their social network and, in particular, their personal relations to lawmakers.

In the words of Hon. John Boehner (2006) *“many of the lobbyists who enter our offices every day to represent their clients are, for all practical purposes, complete mysteries to us. Yet for the House to function, some degree of trust is necessary. Many lobbyists are of the highest integrity and feel as much of a duty to the House as a democratic institution as they do to their clients. But there’s every incentive for those with more questionable ethics to shortchange us and the House. And absent our personal, longstanding relationships, there is no way for us to tell the difference between the two.”*

While investigative journalism has given us detailed accounts of relationships between legislators and lobbyists, these accounts only provide spotty pictures that cannot be generalized to the entire lobbying industry or lawmaking group. A clear difficulty in terms of painting a more complete picture is to build a systematic measure of connections. We propose to exploit information on the campaign contributions lobbyists make to politicians to construct such a measure. Specifically, we search the campaign contribution records kept by the Federal Election Commission to identify all campaign contributions made by the lobbyists identified in the SOPR data. For each lobbyist, we can measure whether he or she has made at least one contribution to a campaign over the sample period¹⁶ and we can count a lobbyist’s average number of contributions in any given Congress; we can also tag those lobbyists that make “many” campaign contributions in any given Congress (we arbitrarily define “many” as five or more). One of the advantages of this measure is that it can be constructed for the entire universe of lobbyists.

¹⁵ Of course, these two groups can overlap.

¹⁶ FEC disclosure requires indicating the individual name, occupation and employer of the donor, allowing a precise match to SOPR data. The FEC data identify 143,033 unique politician-lobbyist-congress links with 796 uniquely identified politicians, 12,514 unique lobbyist names, and a median donation of \$500.

Across all lobbyist-year observations, the fraction of lobbyists with at least one donation is 27 percent; about 8 percent make contributions to many politicians. For external lobbyists the same figures (38% and 14% respectively) are more than twice as large compared to in-house lobbyists.

Is our proposed measure of connection good at capturing personal relationships between lobbyists and politicians? Or does it simply reflect electoral motives or influence motives as previously emphasized in the interest group and campaign contributions literatures? Addressing these questions is crucial for our exercise because we are implicitly adopting the view that contributions by lobbyists are of a different nature from campaign donations made directly by interest groups. While campaign contributions by interest groups may be mostly determined by the desire to elect certain politicians (the *electoral* motive) or to “buy” policies (the *influence* motive), we propose to use lobbyists’ contributions as a reflection of pre-existing ties and *access* to a given politician. We perform several exercises to support this long-standing and non-strategic view of contributions for the case of lobbyists. First, we show that our measure of connections performs reasonably well in subsets of the data for which we have detailed information about long-standing relationships and when compared to the measure of connections in Blanes-i-Vidal et al (2012). Second, we show that our measure of connections appears unrelated to strategic motives, such as those generated by a tight election race or the assignment of a politician to a more prominent committee position. Third, we show that our measure of connections correlates with lobbyists’ and politicians’ permanent characteristics that should intuitively make them more likely to be connected.

First, we verify that our measure of connections captures relationships that we can document through other sources. Indeed, a concern about our measure is that it may systematically miss strong connections between lobbyists and politicians. To build some sense of how much of a concern this is, we considered a group of 127 lobbyists with family members serving in Congress around their time of activity from the Congressional information provider Legistorm.com. Were campaign contributions just a weak substitute for closer ties, we would expect to see no connections as we measure them (e.g. through political donations) between these lobbyists and their family members in Congress. In fact, we found that 38.6% percent of these family lobbyists make campaign contributions to their family members. As an additional check, we also made use of a list of 21 lobbyists and public affairs consultants with strong ties to Republican Congressman John A. Boehner published by the New York Times (Lipton, 2010). Cross-checking with FEC individual campaign contribution data, we were able to recover 52 percent of these

connections. Hence, our connection measure, while certainly noisy, arguably correlates well with strong ties.¹⁷

We also compare our measure of connections to the one recently proposed by Blanes-i-Vidal et al (2012). They define a lobbyist-politician pair as connected if the lobbyist worked as an aid for that Senator or Congressman before moving to K street. Naturally, the number of connections based on FEC campaign contributions is larger than the number of connected pairs in Blanes-i-Vidal et al. (144,000 vs 1,354). Our FEC-based measure identifies 40.5% of the pairs in Blanes-i-Vidal et al. (2012).

Second, we verify that our measure of connections does not appear to systematically respond to strategic motives. We consider two potential sources of strategic motives. First, we ask whether the likelihood of a campaign contribution by a lobbyist to a legislator in Congress t is positively correlated to the political prominence of that legislator in Congress t , Congress $t-1$ or Congress $t+1$ (the latter being relevant if lobbyists can predict future political prominence). We measure such prominence by the average Grosewart index for the committee portfolio held by the politician, as well by whether the legislator is the Chair of any committee.¹⁸ We fail to find any systematic evidence in support of this strategic motive (see Appendix Table A2).¹⁹ We also consider the possibility that our measure of connections is picking up on an electoral motive rather than simply proxying for personal relationships. To do so, we return to the sample of connected pairs from Blanes-i-Vidal et al. (2012) and ask whether the campaign contributions we observe in that sample are disproportionately clustered around competitive election races. We fail to find systematic evidence in support of this electoral motive (see Appendix Table A3).

¹⁷ Another reason to believe that our measure may not pick up an existing connection is that, while a lobbyist may be connected to a politician, it is really the client hiring the lobbyist that is paying the campaign contributions to the politician, and not the lobbyist directly. This alternative concern may be partially addressed by considering the relationship between the campaign contributions received by politicians from lobbyists and from their clients respectively. While it is very cumbersome to explore any possible client-lobbyist-congressman connection in the data, the Center for Responsive Politics (CRP) presents lobbyist-client clusters of donations to members of Congress between January 2007 and June 2009. Clients must be members of the health care/health insurance industry and have hired at least ten outside lobbyists who display some campaign contribution to the same Congressmen as the clients contributed to. Under the view requiring clients to carry the bulk of the campaign donations relative to their lobbyists, the amount of campaign contributions received by congressmen from clients should vastly exceed the lobbyists' donations. Quite to the contrary, for 52 out of 61 congressmen identified by the CRP as recipients of lobbyist-client bundles, the amount of lobbyists' contributions exceeds what was paid by clients. The lobbyist-client difference is large and statistically significant with lobbyists contributing on average \$14,642 more than their clients, an average relative difference of about +50.4 %.

¹⁸ The Grosewart index is derived in Groseclose and Stewart (1998) as a hard measure of congressional committee desirability through legislators' revealed preferences.

¹⁹ We find similar results when studying the likelihood of a *first-time* campaign contribution by a lobbyist to a politician.

In our third check, we investigate which characteristics of lobbyists and politicians make them more likely to be connected. This analysis is reported in Tables 2 and 3. We start with a lobbyist level analysis (Table 2). Intuitively, we expect our measure of connections to be larger for lobbyists whose past experience includes political jobs or working with politicians. The unit of observation in Table 2 is a lobbyist and all lobbyists are equally weighted. There is unambiguous evidence that past experience on the Hill or in the White House is associated with more connections to politicians through campaign contributions. Consider the last 6 columns, where the dependent variable is a dummy variable that equals 1 if the lobbyist makes campaign contributions to at least 5 politicians in the average Congress we observe him in the lobbying records. We find (column 7) that former members of Congress and those with some prior experience in the White House are respectively 14 and 10 percentage points more likely to maintain five or more connections to politicians. Lobbyists with associations with the Republican or Democratic parties are respectively 10 to 14 percentage points more likely to fall in the “many connections” category. Moving the focus to lobbyist-politician pairs, Table 3 provides evidence on which lobbyists make campaign contributions to which politician. We perform this analysis separately by Congress and present results for the 107th and 108th Congresses.²⁰ We create all possible lobbyist-lawmaker pairs (by cross-matching the list of lobbyists with the list of Congress members) and create a dummy variable that equals 1 if the lobbyist in a pair has made a campaign contribution to the lawmaker in that pair, 0 otherwise. We perform the analysis both with and without lobbyist and lawmaker fixed effects. Standard errors are clustered at the lobbyist level. Maybe not surprisingly, whether a given lobbyist contributes to a given politician’s campaign is systematically related to whether the lobbyist and the politician share the same political ideology.

3.2 Expertise

An alternative to the idea that a lobbyist’s value lies in her connections is the view that lobbyists’ role is to support and provide guidance to overly burdened legislators (and regulators) with much needed expertise on often complex topics. In this section, we construct measures of expertise (or specialization) at the lobbyist level.

²⁰ Within each Congress, we restrict ourselves to the subset of lobbyists for whom we could find background information on www.lobbyist.info and are active during that term and to the subset of politicians that are Members of Congress during that term.

We propose to measure the expertise of lobbyists by assessing the breadth of the issues they work on. This can be done with the SOPR data. Associated with each report is a checklist of all the issues a given report is covering (the full list of issues is reported in Appendix A1, while a sample report is presented in Appendix A2).

Consider a report r at time t . The report lists a number of issues I_{rt} (where I_{rt} is bound between 1 and 76 possible issues), the name of all L_{rt} lobbyists employed and the dollar amount paid for lobbying services on those issues I_{rt} at time t , V_{rt} . Let us assume that the report value is divided symmetrically across all lobbyists, so that the service of each lobbyist l in the report is valued $V_{lrt} = \frac{V_{rt}}{L_{rt}}$. If we impute this value symmetrically to all issues, then the dollar amount for issue i and lobbyist l on report r at time t is $V_{ilrt} = \frac{V_{lrt}}{I_{rt}}$. If lobbyist l works on R_{lt} reports then we can indicate by V_{ilt} the value of lobbying on issue i so that $V_{ilt} = \sum_{r=1}^{R_{lt}} V_{ilrt}$. We sum V_{ilt} across all active years for lobbyist l to obtain V_{il} . Using these dollar values as weights, we compute for each lobbyist l an issue-based Herfindahl Index (HHI) that measures how concentrated this lobbyist's assignments are across all possible issues I :

$$\text{HHI}_l = \sum_{i=1}^I \left(\frac{V_{il}}{V_l} \right)^2$$

where $V_l = \sum_{i=1}^I V_{il}$.

As a complementary measure, we also generate a dummy variable called “specialist” that equals 1 if a lobbyist spends (in dollar terms) at least a quarter of his assignments in each active year on the same issue, as well as a dummy variable called “generalist” that equals 1 if a lobbyist never spends (i.e. in no active year) more than a quarter of his assignments on the same issue.²¹

Across all years and all lobbyists, our expertise measures lead us to qualify about a quarter of lobbyists as specialists and about another quarter as generalists; the average issue-based HHI in the lobbyist panel is .34. The share of specialists is higher for external than for in-house lobbyists. Bertrand et al. (2011)

²¹ The measures of specialization we propose are subject to both downward and upward sources of bias. First, there are typically multiple lobbyists assigned to a given lobbying report (the mean across reports is 3; the median is 2), and it is possible that not all the lobbyists whose names are listed on a report cover all the issues associated with the report. Because we do not observe when such within-report specialization occurs, we cannot account for it; this will lead us to underestimate how specialized a given lobbyist is. Second, because lobbyists typically do not work for many years in our data (the average number of active years is about 4), our proposed specialization measures may mistakenly classify as specialists those lobbyists that appear on only a very limited number of reports or work for a very limited number of years; this will lead us to overestimate the degree of specialization.

report a detailed analysis of the degree of specialization across lobbying firms and an analysis of the trends in the number of specialists over time.

Analogously to Table 2, Table 4 relates specialization to lobbyist's biographical information.²² The unit of observation is a lobbyist and all lobbyists are equally weighted in these OLS regressions. We present regressions both for all lobbyists (odd columns) and for those with at least 4 years of presence in the SOPR data (even columns). The dependent variable in the first 6 columns is the "specialist" dummy; the dependent variable in the last 6 columns is the issue-based HHI. The main theme that emerges from this table is that lobbyists with prior political experience or political affiliations are less likely to be experts on specific topics. For example (column 2), lobbyists with prior association with the Republican or Democratic Party are about 5 percentage points less likely to be specialists. These patterns appear to be more systematic and more precisely estimated among external lobbyists.²³

4 The Importance of Connections: Evidence from Lobbyists' and Politicians' Issue Coverage

In this section, we provide evidence that lobbyists' connections to specific politicians are a significant determinant of the lobbyists' work assignment. We first show that whom lobbyists give to (and most likely whom lobbyists know) is systematically correlated with what issues they work on. In support of a causal interpretation of this pattern, we further show that lobbyists switch issues in a predictable way as the legislators they are connected to switch committee assignments.

4.1 Are connections related to issue coverage?

The nature of the empirical exercise we perform in Table 5 is as follows. We start with the pool of all Senators and House Representatives in a given Congress. We then use committee assignment information to determine the specific lobbying issues each of these Members of Congress are

²² The sample here is of course smaller, i.e. limited to the subset of lobbyist we could identify in www.lobbyist.info and for whom detailed biographical data was available.

²³ We also check that what we measure as specialization is not systematically related to specific issues that are more ideological, rather than information intensive. We construct specialist lobbyists' shares (out of the total number of lobbyists active on each issue) for Religion (REL), Fire Arms/Guns/Ammunitions (FIR) and Family Issues/Abortion/Adoption (FAM). The shares of specialists over the full sample are, respectively, 6.5%, 7.7% and 14.6% of all lobbyists working on those issues. Within these three issues we observe average shares of specialists not particularly higher than average. They are lower, if anything. For example consider three alternative issues that appear substantially more ideologically neutral, like Agriculture (AGR), Budget (BUD), and Defense (DEF). The shares of specialists are, respectively, 17.3%, 14.0% and 12.0% of all lobbyists working on those issues.

particularly tied to in that Congress.²⁴ For instance, the powerful House Appropriations committee maps into the SOPR lobbying Budget issue (BUD). We then create a dataset that includes all possible lobbyist-legislator pairs in a given Congress by crossing the pool of active lobbyists with the pool of active lawmakers.

For each lobbyist-legislator pair, it is possible to construct some measures of the “issue overlap” between the legislator and the lobbyist in the pair. As a first measure we simply use counts of the number of issues a given legislator is assigned to (given his or her committee position in that Congress), that also appear in at least one of the lobbying records associated with the lobbyist during that session of Congress. We also define a dummy variable that equals 1 for a lobbyist-legislator pair if the lobbyist’s records during that session of Congress cover all the issues assigned to the legislator in that Congress, 0 otherwise.

In this sample of all possible lobbyist-legislator pairs in a given Congress, we then test whether the issue overlap between the lobbyist and legislator in the pair is systematically larger when the pair actually exists in the campaign contribution data, e.g. when the lobbyist made a campaign contribution to that legislator in any of the two years that Congress was in session. As in Table 3, we perform our analysis separately by Congress and present results for the 107th and 108th Congress. (We obtained qualitatively similar results for the other sessions of Congress covered in our sample time period and omit them for brevity).

Note that for each measure of overlap and Congress we report the results of two regressions: one with legislator fixed effects and one with lobbyist fixed effects; such fixed effects are important since, for example, the overlap measures we have defined may largely vary across legislators simply based on whether they are assigned to narrowly-focused committees or committees with broader mandates. Also, robust standard errors are clustered at the lobbyist level.

There is systematic evidence across all Congresses that the existence of a campaign contribution connection between a lobbyist and a legislator is associated with a higher likelihood that the lobbyist and legislator work on the same issues. For instance, the likelihood of a perfect issue overlap between a lobbyist and a legislator (e.g. the lobbying records associated with that lobbyist during that session of Congress cover all the issues associated with the legislator's committee) in a random pair in the 108th Congress is 11.5 percent. The likelihood increases by 2.9 percentage points, or about 25 percent if the

²⁴ A list of committees and corresponding issues is in Appendix A3.

lobbyist made a campaign contribution to that legislator (column 3, Table 5), controlling for whether the lobbyist and legislator share political orientation or house or senate affiliations.²⁵

4.2 Do pre-existing connections predict future issue coverage?

The point of departure of this section is the finding in Table 5 that in any given period, there is a correlation between whom lobbyists know and what they work on. There are, however, many different ways to interpret such a correlation. We are particularly interested in separating two possible interpretations. The first interpretation is that what determines the issue a lobbyist works on is whom he or she knows: because a lobbyist knows a given politician, he or she has influence over that politician and therefore is particularly effective in affecting outcomes related to the issues this politician's committee covers. In a sense, under this first interpretation, whom a lobbyist knows comes first and this determines in great part what he or she works on. A second interpretation is that what a lobbyist knows determines which politician he or she is more likely to establish some connections with. Under this second interpretation, lobbyists are defined by what they know more than whom they know. However, there is some friction in the communication of this expertise, maybe because of lawmakers' overburdened schedule and limited attention span. Campaign contributions are then a way to get politicians' attention; they serve as some grease in the transmission of information and expertise between lobbyists and lawmakers.

In Table 6 we present an empirical test of whether lobbyists "stick to" the people they know when it comes to what issues they work on. If lobbyists essentially provide interest groups with access to politicians in their "circle of influence," one would expect lobbyists' job assignments to be determined by the identity of the politicians in charge, independent of the specific issues being decided upon. Hence

²⁵ We also replicated the analysis in Table 5 under the alternative measure of connection proposed in Blanes-i-Vidal et al. (2012) and compared it to our FEC-based one. We found no statistically significantly larger issue overlap for the connected pairs defined under the Blanes-i-Vidal measure; conversely we do find statistically significantly larger issue overlap for the connected pairs defined using the FEC-based measure (consistent with the findings in Table 5). One interpretation of this result is that lobbyists have several important connections, some of which with Senators or Congressmen that formerly employed them, but others as well, which appear in the FEC-connected pairs, but not in the Blanes-i-Vidal et al. pairs. Another interpretation is that having been a former aide does not always imply a lobbying relationship, or that the connections might have gotten cold. In fact, when we look at the issue overlap for the 59.5% pairs in Blanes-i-Vidal et al. that the FEC does not match we find that it is significantly lower than for the 40.5% that the FEC does match.

a lobbyist should “follow” a congressman that he or she knows as the congressman moves from one committee assignment to another.

To perform this test, we isolate the subset of Congressmen that switch committee assignments between Congress t and Congress $t+1$. We form all the possible pairs between Congressmen in that subset and the lobbyists in our sample. We then ask in Table 6 whether the overlap of new issues covered by the lobbyist and the Congressman in $t+1$ can be predicted by whether the pair was connected in the *prior* Congress, e.g. Congress t . The dependent variable is $N_{lp,t+1}$, the number of new issues for politician p in Congress $t+1$, that are also new to lobbyist l in that Congress. We regress this new issue overlap on the connection dummy C_{lpt} employed in Table 5, which is equal to 1 if politician p is connected to lobbyist l in Congress t . We control for both overlap in Congress t , O_{lpt} , and for the overlap between the lobbyist in Congress t and Congressman in Congress $t+1$, a ‘forward overlap’ measure we denote by $F_{lp,t+1}$. The latter control captures the fact that the lobbyist may be already working on the issues the legislator takes up as new assignment. Our ‘new issue overlap’ estimating equation is:

$$N_{lp,t+1} = \alpha_0 + \alpha_1 C_{lpt} + \alpha_2 O_{lpt} + \alpha_3 F_{lp,t+1} + \gamma_p + \varphi_l + \theta_t + \varepsilon_{lp,t+1} \quad (1)$$

where $\varepsilon_{lp,t+1}$ is a mean zero iid error term and $\gamma_p, \varphi_l, \theta_t$, are, respectively, politician, lobbyist and Congress-specific constants. This specification is amended in various ways to check for robustness as indicated in the different columns of Table 6.

We also address the potentially non-random nature of the set of switchers with a selection model similar to Heckman (1979). Although the large literature on committee assignment does not address the role of lobbyists in facilitating politicians’ movement across committees, it is worth discussing it in our context.²⁶ Two considerations are in order. First, if lobbyists connected to politicians could systematically influence their committee assignments, then this would point to connections being important. It is otherwise not clear why a lobbyist would want a specific legislator on a specific committee. Second, it is not obvious in what direction selection would affect our estimates. Nevertheless

²⁶ See Frisch and Kelly (2004), Krehbiel (1990), Groseclose (1994), Adler and Lapinski (1997), Rhode and Shepsle (1973). The most closely related issue discussed in this literature is whether constituency interests affect a legislator’s committee requests and whether those requests are satisfied by the committee on committees. Frisch and Kelly (2004) show that the evidence weakly supports these hypotheses. Moreover, in a comprehensive book on the topic Frisch and Kelly (2006) do not mention lobbyists as determinants of committee assignments.

we specify a two-step procedure that corrects for sample selection as follows. We denote by S_{pt} an indicator variable that is 1 if politician p switches to at least a new committee in period t . We then specify the probability of switching as a function of two variables, $Above_{pt}$, and $Tenure_{pt}$, excluded from (1) that we construct from existing data on committee ranking and seniority. More specifically, the variable $Tenure_{pt}$ measures the chamber seniority of the legislator p at the time t of the potential change. The variable $Above_{pt}$ measures the number of seat openings in committees that are better than the average committee seat held by p in Congress t , i.e. the number of seats in committees with an historical Grosewart rank above the average of the committee portfolio held by that legislator before the potential change (see footnote 18). The estimating selection equation is as follows:

$$\text{Prob}(S_{pt} = 1) = \delta_0 + \delta_1 Above_{pt} + \delta_2 Tenure_{pt} + \gamma_p + \mu_{pt} \quad (2)$$

where μ_{pt} is a normally distributed iid error term. We estimate (2) by Probit and include the predicted inverse Mills ratio $\hat{\lambda}_{pt}$ in our issue overlap equation (1) as a selection correction term.

Across different specifications in Table 6, we find evidence that lobbyists follow the lawmakers that they have connections with when those lawmakers switch committee assignments. Specifically, we find a larger overlap in Congress $t+1$ when the lobbyist had previously made campaign contributions to the politician in the pair. This result is robust to controlling for politician fixed effects (column 2), lobbyist fixed effects (column 3) or both (columns 4-6). In column 5 we include the selection correction term described above with marginal changes to the estimated coefficients. The selection equation estimates are reported in panel B.

Although the effect of connections survives the demanding inclusion of lobbyists and politicians fixed effects, one may still be concerned about the possibility that other time-varying characteristics may be driving both a pair's connection and their joint entry into new topics. We therefore introduce in column 6 an additional control that captures issue overlap in an earlier period (Congress $t-1$) in an attempt to compare connected and unconnected pairs that have otherwise similar issue coverage progress over time. The estimates are reassuringly qualitatively unchanged.

Finally, we also verified in columns 7 and 8 of Table 6 the robustness of our results to a more stringent measure of connection for each lobbyist-politician pair. Rather than solely relying on whether pair was connected in the Congress that precedes the politician's committee re-assignment, we define a pair as

connected *only if* the lobbyist made at least one campaign contribution to the politician in *each* of the Congresses the pair is present in our data, up to the Congress that precedes the politician's committee re-assignment (i.e. up to Congress t). This more stringent measure should further weaken any concern about the endogeneity of connections to the committee re-assignment. We find qualitatively similar results when we use this alternative measure of connection (column 7). This remains true when we restrict our analysis to the 107th to 109th Congresses, where we have longer histories for each lobbyist-politician pair (column 8).

The magnitude of the effect of connections is rather large. Considering that the overall mean overlap of new issues at $t+1$ is 0.16, the estimated effect ranges between about 17% and 77% higher overlap for connected lobbyists and politicians, depending on the source of variation we consider (i.e. the set of fixed effects included). This indicates that a previous connection increases the chance of a lobbyist following a politician to her newly assigned topics by a substantial amount. This pattern is, we believe, an indication that connections are important determinants of what lobbyists work on.

In appendix Table A4, we show that there is lobbyist-level heterogeneity in the patterns of "following" reported in Table 6. Specifically, we repeat the specifications in columns 2 to 4 of Table 6 separately for 4 subsamples of the data: the subsample of lobbyist-politician pairs that share the same party affiliation, the subsample of lobbyist-politician pairs that have opposite party affiliations, the subsample of lobbyists that are specialists and the subsample of lobbyists that are non-specialists. We find that lobbyists that are connected to a politician are much more likely to follow that politician as he/she switches committee assignment if they also share the same party affiliation (in fact, we find no following among opposite-party pairs). We also find substantially more following by lobbyists that are non-specialists (although this difference is reduced in a specification that includes both lobbyists and congressmen fixed effects). In summary, connections to politicians appear particularly relevant in determining what partisan, non-specialist lobbyists work on.

In appendix Table A5 we repeat the analysis in Table 6 for the sample of freshmen, i.e. Congressmen that enter Congress at $t+1$. Notice that we still observe contributions during the campaign stage and therefore all variables of interest, except for issue overlap at t , can be defined for this sample. The results are largely confirmed: as freshmen are elected and are assigned to given committees, lobbyists who gave them campaign contributions start working on the same issues (controlling for whether the lobbyist was already working on those issues).

5. The Importance of Expertise: an “Opposite Bias” Test

A role for connections does not imply that lobbyists’ expertise about certain topics is irrelevant to their job. Once access has been gained, the lobbyists may still provide useful information to politicians. In this section we present evidence aimed at detecting the presence of information transmission between the lobbyist and the politician, and hence a role for lobbyists’ expertise. Absent direct measures of informational flows, which are rarely observed, all tests of informational lobbying, by necessity, need to be indirect. At the same time one would require such tests to be sufficiently discriminating across alternative hypotheses. The goal is to reject the null hypothesis of no informational lobbying by presenting evidence that can be parsimoniously explained only by informational lobbying models. These conditions make sharp tests of this kind rare in the literature.

Our test is based on the theoretical literature in multiple sender communication. For instance consider the cheap talk setup in Krishna and Morgan (2001) and Grossman and Helpman (2001) where two informed, but biased lobbyists send messages to influence the action of a single uninformed policy maker. The messages sent by the lobbyists are aimed at informing the politician about the state of nature, which in turn determines the optimal policy action to take. Importantly, when the two lobbyists have opposite biases (relative to the policy maker), the policy maker can learn more precisely what the true state of nature is (and could also become fully informed under some conditions). This is because the credibility of a message sent by a lobbyist is enhanced by the presence of another lobbyist that also sends a message and this mechanism prevents both lobbyists from “exaggerating” their messages to bias policy in their favor. Interestingly, Krishna and Morgan (2001) show that not only the policy maker, but also both lobbyists, benefit, relative to the case of only one lobbyist sending a message. Notice that, although the mechanism is slightly different, an analogous prediction holds in costly signaling models, as in Battaglini and Benabou (2003). We take this prediction as a starting point to construct our test.

We focus on the set of lobbyists connected to a given politician based on our FEC data. A precise measure of the direction of bias of the lobbyist is given by the political affiliation of the lobbyist, which we derive from www.lobbyists.info. We test whether the share of “opposite bias” lobbyists is larger for the set of specialist lobbyists than for non-specialists. In particular, for each politician p and Congress t we generate the shares, S_{ptj} , of lobbyists connected to the politician that have an opposite party

affiliation; we do this separately for the subset of specialists, $j = 1$, and the subset of non-specialists, $j = 0$. We then estimate the following fixed effect specification:

$$S_{ptj} = \delta_1 + \delta_2 I(j = 1) + \gamma_p + \delta_t + \eta_{ptj},$$

where $I(.)$ is the indicator function.

Information acquisition on the part of the legislator would require the presence of opposite party lobbyists especially among the specialists, the subset of lobbyists in which informational lobbying is more likely to be detected and relevant, or $\delta_2 > 0$. This would lend empirical support to Krishna and Morgan's result.

Notice the disciplining effect of the test. Alternative interpretations of lobbying, such as a pure favor exchange hypothesis, do not supply a clear intuition for $\delta_2 > 0$. A quid-pro-quo argument, for instance, would justify connections to an overall higher number of lobbyists from the same political party, i.e. an S_{pt} substantially below 0.5 (it may be cheaper to buy favors from a politician with the same policy views). But a quid-pro-quo model would provide no intuitive reason for why the share of opponent party lobbyists should be systematically higher when computed for issue specialists compared to non-specialists connected to a given politician.

Table 7 reports the results by pooling all politicians and Congresses. It also splits samples across all the different Congresses and across political party of the legislator. While the pooled results reassure about the generality of the finding, the sample splits will reassure about specific subsamples not driving our result.

Column (1) of Table 7 reports the estimated differential δ_2 for a specification only including Congress fixed effects, while Column (2) adds legislator fixed effects. In the pooled sample, the estimated mean share of non-specialists from the opposite party is about 17%, which increases by 9 percentage points when considering the group of specialist lobbyists affiliated to the politician. This is an increase of about 53% percent, so particularly sizeable, and stable across specifications. Splitting our analysis Congress by Congress in Columns (3)-(7) produces estimates of δ_2 ranging from 7% in the 110th to 12% in the 107th Congress. All estimates are statistically significant at 1 percent confidence level. Splitting between Democrat (Column 8) and Republican legislators (Column 9) produces strong and significant

differentials across samples as well. We estimate δ_2 at 15% for Democrats and around 5% for Republicans, both statistically significant at 1 percent confidence level. Overall, we find that, among connected lobbyists, those of the opposite party of the politician are more likely to be specialists.

While the test we performed in Table 7 provides indirect evidence of a role for expertise among connected lobbyists, it does not provide much guidance on the relative importance of access vs. expertise in defining lobbyists' job. In Section 6, we tackle one aspect of this remaining question by comparing the monetary premia associated with connections and expertise, trying to get at which of these two resources is the scarcest. Another useful set of statistics is based on the breakdown of the circle of lobbyists connected to a politician. Opposite party specialists, which we argue below is the group most likely to be engaged in informational lobbying, account on average for only 7.6 percent of the lobbyists connected to a politician in a given Congress. In contrast, same party non-specialists, which behave the most of "followers" of the politicians in their issue assignment (see Table 6 and Appendix Table A4) account for 59.1 percent of the lobbyists connected to a politician in a given Congress.

6 Connections and Issue Expertise: Evidence from Lobbying Returns

6.1 Report-level analysis

In this section, we ask whether lobbyists' connections and issue expertise are equally valued and scarce resources. Specifically, we propose to assess the relative importance of access versus expertise by asking how much these two assets are paid. Unfortunately, we do not have any information on lobbyists' income.²⁷ But we do observe the price tag associated with each lobbying report. It is therefore possible to assess how the characteristics of the lobbyists that are assigned to a report relate to how much was spent on that report. We perform this analysis in Table 8, limiting the sample to the group of reports filed by external lobbyists. An obvious limitation of this empirical approach is that we cannot isolate the contribution of an individual lobbyist to a given report (recall that most reports have more than one lobbyist assigned to it). In Table 9, we will present an alternative approach where we try to get at

²⁷ Concerning payment structures: "There are several fee structures on K Street, from annual retainers and lump sums for specific projects to monthly and even hourly rates. [...]. But it is most common to find clients paying a monthly rate. Universities, local and municipal governments, and companies that are most closely focused on the appropriations process pay fees of between \$5,000 and \$30,000 a month. [...] [LobbySearch: The Who, When, and How Much of Hiring a Lobbyist].

individual lobbyists' value-added to a given report by estimating a vector of individual lobbyist fixed effects. The size of the premium on connections compared to expertise is evident in the report-level analysis of Table 8. The unit of analysis is an external lobbying record, as defined in the SOPR data. The dependent variable is the logarithm of the dollar amount attached to that report, $\ln(V_{rt})$. All regressions reported in Table 8 include a vector of year dummies, a vector of dummies for report type (e.g. end-of-year report or mid-year report), and a vector of dummy variables for the issues that are being covered in the report. We also control non-parametrically for the number of lobbyists included in the report (with separate indicator variables for all numbers –from 1 to 62). Finally, all regressions include controls for the average tenure of the lobbyists assigned to the report, as well as the average number of active years among these lobbyists over the entire sample period and the average number of reports per lobbyist on the team per year. For ease of interpretation, we construct two dummy variables. The first one equals 1 if there is at least one specialist in one of the issues covered by the report. The second dummy is 1 if there is at least one lobbyist on the report that is connected to a politician that works on an issue in that report.

We find qualitatively similar results across all specifications. Specifically, everything else equal, we find a premium of about 3 to 5 percent for a lobbying report that has a relevant specialist, while that premium is about 8 to 10 percent for a report with a lobbyist who has a relevant connection. Overall, having a specialist on the team comes at a premium, but having connected lobbyists commands a premium twice as large. Given an average report amount V_{rt} of \$63,200, this implies a per-report premium of \$5,056-\$6,320 per connected lobbyist²⁸.

The last column of Table 8 introduces a number of characteristics of the lobbyists on the report. We find additional premia for most of the variables that describe the political background of the lobbyists on the team. Everything else equal, staffing a lobbying case exclusively with former Members of Congress increases its price by about 12 percent. Teams composed of lobbyists with Democratic and especially Republican affiliations cost more as opposed to lobbyists with no political affiliation. The largest premium we observe is for lobbyists with past experience in the White House.

²⁸ The premium is computed per report and thus needs to be further multiplied by the number of reports on which a lobbyist typically works (between 23 and 45 per year on average and assuming that a connected lobbyist works on reports where he is connected to a politician that works on an issue in that report) to obtain a yearly connection premium. This places the value of a connection in excess of \$116,000 per year.

6.2 Lobbyist-level analysis

The report-level analysis above suggests interesting patterns that can be further investigated moving to an individual lobbyist analysis. As indicated above, one of the difficulties with the report-level analysis is that we cannot precisely identify the value added of a specific lobbyist. For a subset of lobbyists that can be observed working with a diverse set of co-workers, though, it is possible to estimate fixed effects in the dollar amount associated with having their name attached to a lobbying report.

Specifically, we start with a dataset where the unit of observation is at lobbyist*lobbying report level. We define as dependent variable the logarithm of the total dollar amount associated with that lobbying report $\ln(V_{rt})$ (the same dependent variable as in Table 8, $\ln(V_{rt})$ is now replicated for each lobbyist in the report). We then estimate lobbyist fixed effects in a regression that includes year dummies, a vector of indicator variables for all issues or topics, and non-parametric controls for the number of lobbyists associated with report L_{rt} (e.g. dummies for each possible size of the lobbying team).

Intuitively, it should be clear that such lobbyist fixed effects cannot be estimated for all individuals. Instead, we will only be able to compute fixed effects for those lobbyists that we observe as part of changing teams across lobbying reports. Because of computation intensity and to guarantee lower measurement error in the fixed effect estimates, we restrict the sample to external lobbyists that are active in at least 6 years over the entire sample period.²⁹

Once we have computed the lobbyist's fixed effects, we relate them to each lobbyist's level of expertise, connections and past professional experience in Table 9. We estimate median regressions, which allow us to better address outlier concerns; we also weigh each observation by the inverse of the standard error associated with the estimated fixed effect for that lobbyist/observation further accounting for noise in the estimation.

Before moving to the regression results, we discuss Figures A1 and A2, which graphically show how the distribution of lobbyist fixed effects relate to both their expertise and their level of connections. We see that the distribution of fixed effects for specialists and non-specialists are almost identical. When we separate lobbyists into those with high ($>.33$) and low issue-based HHI, we find the distribution of fixed effects for the high HHI group to be more spread out and with more mass towards low fixed effects compared to the distribution of fixed effects for the low HHI group. Hence we observe no premium

²⁹ For estimating each fixed effect, at least six observations are available. For a related discussion see Besley and Preston (2007) who discuss the issue of consistency of the individual-specific fixed effects in the case of assessing bias of local authorities with small T .

associated with issue expertise. If anything, those lobbyists that concentrate on fewer issues appear to come at a discount.

We also plotted the distributions of lobbyist fixed effects for those with no political connection and those with at least one connection (top), as well as for those with 5 connections or more in any given Congress and those with less than 5 connections (bottom). In both cases, it is very clear that the distribution of fixed effects for those with some or many connections is shifted to the right compared to the distribution for those with no or few connections.

The regression analysis in Table 9 qualitatively confirms these patterns. Issue experts do not receive a premium.³⁰ In contrast, there is a positive and significant premium associated with having more political connections. The premium appears to be especially large for those lobbyists that entertain many connections to politicians (6 to 10 percent). Even after controlling for connections, we still find a large premium associated with some of the political background characteristics. In particular, everything else equal, past experience in the White House increases a lobbyist fixed effect by 12 to 15 percent. The premium associated with affiliation to the Republican party is larger and more precisely estimated than the premium associated with the Democratic party.³¹

6.3 Political Cycles and Issue Cycles

In this section we perform alternative exercises aimed at measuring whether premia associated to issue expertise or to connections change with, respectively, the ‘political cycle’ and the ‘issue cycle’. More specifically, in our first exercise we ask whether a lobbyist that has an affiliation to a specific party sees his average return increase as this party moves to a position of power.

Figure 1 presents evidence that connections to politicians matter for lobbyists’ professional activities and particularly for their average revenue. In computing those measures, we assign to each lobbyist on the report the average per lobbyist dollar amount on that report V_{rlt} , aggregate over each year and take logs. Figure 1 reports the Republican lobbyist revenue premium in percentage terms relative to a

³⁰ This evidence can be reconciled with the report-level results: the fixed effect analysis provides a measure of the average return to a specialist, which is revealed to be lower than for non-specialists. This is not in contrast with the fact that when they work on issues on which they are experts, specialists may receive a higher than average compensation.

³¹ In regressions not reported here, we also tested for the possibility that expertise might only be valuable when combined with connections, a possibility that seemed in keeping with some of the patterns we observed in Table A5. We tested for this hypothesis in both the report-level analysis and the lobbyist fixed effect analysis. We did not find this interaction term to be economically or statistically significant.

Democratic lobbyist (benchmarked at zero) based on total per-lobbyist per-year amount reported in the SOPR data. Republican lobbyists tally higher revenues during Republican Congresses and Republican administrations (up to 30% more during the first year of Bush’s second term).³² The political cycle is not driven by specific issues being more likely to be associated to certain parties. Revenue premia are virtually unchanged running the specification issue-by-issue in the vast majority of issues. This estimated revenue cycle can be attributed to a decrease in the value of connections when political allies are out of office. In this sense, the result is very much in line with the finding of Blanes-i-Vidal, Draca, and Fons-Rosen (2010) that assess a 20% drop in revenues occurring to lobbyists with past experience as senatorial aides when their connected Senator leaves office.

In Appendix Table A6, we also report total yearly lobbying expenses associated with lobbyists with a Republican affiliation and total yearly expenses associated with lobbyists with a Democratic affiliation. We also report the number of active lobbyists with Republican or Democratic affiliation by year. The patterns in this data match political cycles. In particular, the Republican-Democratic gaps (columns 3 and 6) appear smallest in the very first years of the sample (Democratic President) and the last few years (Democratic Congress). Hence, Republican (Democratic) lobbyists seem to be professionally more active when political power in Washington moves to the right (left).

In our second exercise, we ask whether the average return to an issue-specialist increases in periods where that issue becomes more popular and spending on that issue increases overall (perhaps because a relevant piece of legislation is being discussed in Congress or at the committee level). We construct our measure of issue cycles as follows. Consider the value V_{rt} of report r at time t , and divide it by the number of issues on that report I_{rt} . This generates an average value per issue i on report r , V_{irt} . Then we sum across all the reports that contain issue i at time t , R_{it} to obtain V_{it} , the total amount spent on issue i at t :

$$V_{it} = \sum_{r=1}^{R_{it}} V_{irt}$$

For each lobbyist l we construct a variable that captures whether the issue in which the lobbyist is an expert is booming.

³² The picture also clearly emphasizes the success of the so-called K-Street Project implemented by the Republican party leadership during the first part of the 2000’s. The project was a “*database intended to track party affiliation, hill experience and political giving of every lobbyist in town.*” [Confessore (2003), Welcome to the Machine, 03/07/2003, Washington Monthly] with the explicit aim of selectively assigning political access to GOP lobbyists.

Define the set of issues for which lobbyist l is a specialist as S_l and then construct a lobbyist-specific issue cycle measure C_{lt} :

$$C_{lt} = \sum_{i=1}^{S_l} V_{it}$$

In Table 10A we show that the adjustment during a boom is mainly in terms of non-specialists entering a given issue. More specifically the first panel shows that the total number of lobbyists working on a given issue increases when the issue expands, while the second panel shows that the share of issue-specialists declines during an issue boom, hinting to the fact that entry is primarily by non-experts. This seems to point to relatively low barriers to entry in a specific issue. In Table 10B the dependent variable is the average return for lobbyist l at time t , V_{lt} (previously defined). The results show that the average return to a lobbyist does not seem to respond to an expansion of the issues in which a lobbyist is specialized.

Taking the analysis in Tables 8, 9, and 10 as evidence of what lobbyists' characteristics are most prized, we do not find support for the view that expertise is the scarce resource. Instead, the lobbyists that appear to earn a premium are those that have connections to many politicians and to the ruling party.

To conclude, note that the large premium we observe for “connected” lobbyists are consistent with our assumption throughout this paper that our measure of connections capture long-standing relationships between lobbyists and politicians. The median campaign donation is \$500; it would seem difficult to reconcile this being the only barrier to entry into establishing a “connection” with the fact that “connected” lobbyists are maintaining a sustainable comparative advantage of the magnitude we measure here (see footnote 28). In contrast, it appears that the barriers to entry into issue expertise are either indeed quite low (maybe the experts do not need to be the lobbyists themselves, but can be brought in from industry or academia) or that issue expertise is not necessarily instrumental to “winning” a lobbying case.

7 Discussion and conclusions

Our objective in this paper was to provide some guidance on what lobbyists actually do. We were motivated by two opposite views of lobbyists that have been discussed both in the media circles and in the academic literature³³. The first view considers lobbyists as issue experts who can contribute valuable

³³ Heinz et al. (1993); Salisbury et al. (1989).

information to the law- and rule-making process; the second considers them more as sources of access to lawmakers, because of their personal ties and knowledge of those lawmakers.

The main takeaway from our analysis is that a pure issue expertise view of lobbying does not fit the data well. Instead, maintaining connections to politicians appears important to what lobbyists do. Such connections however need not necessarily raise a flag about unethical or illegal practices. In fact, if we think deeper about what role connections may play, we can conceive two theoretically sensible roles that connections may play and that are not welfare reducing. The first and simplest one is a scenario in which lobbyists, not experts themselves, report to politicians the information produced by expert researchers working for the lobbying firm. Such view of lobbyists as mere “messengers” is, we believe, incompatible with the large fees assessed for their services.³⁴ The price tag attached to lobbyists’ services suggests a second view of what connections represent: connected lobbyists are likely to bring to the table a complementary resource, perhaps reputation, credibility or political savvy, in the transmission of information.

The second takeaway is that, although we find relationships to be important, we also find some evidence that supports the view that at least a subset of lobbyists does have expertise, i.e. concentrates her work in a specific area. More importantly, we show that politicians listen to a larger share of lobbyists with opposite political views when those are classified as issue experts. It would be hard to justify this kind of pattern in a quid-pro-quo setting and it is more suggestive of the existence of some form of information transmission between expert lobbyists and politicians.

While both lobbyists’ expertise and their connections might be at play in the lobbying process, the value analysis suggests that connections are the scarcer resource and therefore the one that commands the highest price. In a series of recent papers Ellis and Groll (2012, 2013) introduce two elements that capture some of these forces. Lobbyists create value by verifying information provided by interest groups, but they also need to build a reputation vis-à-vis the politicians over time in order for their information to be credible. We believe the mechanism by which information and reputation complement each other and combine in creating value in the services of lobbyist is intriguing and deserves further attention.

³⁴ Birnbaum (2005): “Starting salaries have risen to about \$300,000 a year for the best-connected aides eager to ‘move downtown’ [to K street in 2005] from Capitol Hill or the Bush Administration.”

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Table 1: The Lobbyists
Summary Statistics

<i>Variable</i>	Obs	Mean	Std.
In-house lobbyist	36982	0.416	0.493
Number of lobbying records/year	36982	4.692	9.755
Number of active years	36982	3.898	2.880
Tenure	36982	1.709	1.605
Any biographical information on www.lobbyists.info	13720	0.940	0.238
Republican	13720	0.106	0.308
Democrat	13720	0.092	0.289
Former Member of Congress	13720	0.012	0.109
Of which:			
Republican	13720	0.006	0.079
Democrat	13720	0.006	0.074
Senate	13720	0.003	0.056
House	13720	0.010	0.099
Past Experience in/as:			
White House	13720	0.023	0.149
Aide	13720	0.110	0.314
Clerk	13720	0.014	0.119
Counsel	13720	0.077	0.267
House (but not as house representative)	13720	0.007	0.082
Senate (but not as senator)	13720	0.103	0.304
Experience in the:			
1960s	13720	0.014	0.116
1970s	13720	0.048	0.213
1980s	13720	0.068	0.251
1990s	13720	0.081	0.273
2000s	13720	0.063	0.243

Notes: Unique individual lobbyists based on SOPR listed names, standardized by authors. All lobbyists are equally weighted to compute the summary statistics. Experience decade refers to first year of activity.

Table 2: Correlates of Lobbyists' Connections to Politicians

<i>Sample:</i>	Dependent Variable: Any Connection? (Y=1)						Dependent Variable: Many (>=5) Connections? (Y=1)					
	<i>All</i>		<i>External</i>		<i>In-House</i>		<i>All</i>		<i>External</i>		<i>In-House</i>	
	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>Yes</i>
<i>Restrict to at Least 4 Active Years?</i>	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Former Member of Congress	0.12	0.10	0.10	0.09	0.15	0.05	0.14	0.12	0.13	0.12	0.16	0.04
	[0.041]**	[0.048]*	[0.044]*	[0.049]	[0.124]	[0.174]	[0.024]**	[0.032]**	[0.029]**	[0.038]**	[0.036]**	[0.049]
Republican	0.15	0.14	0.12	0.11	0.18	0.15	0.10	0.11	0.10	0.12	0.05	0.05
	[0.017]**	[0.021]**	[0.019]**	[0.022]**	[0.035]**	[0.054]**	[0.010]**	[0.014]**	[0.012]**	[0.017]**	[0.010]**	[0.015]**
Democrat	0.19	0.19	0.18	0.16	0.10	0.15	0.14	0.17	0.15	0.18	0.02	0.02
	[0.018]**	[0.022]**	[0.020]**	[0.023]**	[0.041]*	[0.063]*	[0.010]**	[0.014]**	[0.013]**	[0.017]**	[0.012]	[0.018]
Experience in/as:												
House (not rep)	0.10	0.07	0.09	0.05	-0.08	-0.10	0.07	0.08	0.08	0.07	-0.02	-0.04
	[0.049]*	[0.057]	[0.053]	[0.058]	[0.131]	[0.219]	[0.029]*	[0.038]*	[0.035]*	[0.044]	[0.038]	[0.062]
Senate (not senator)	0.09	0.08	0.08	0.07	0.07	0.13	0.04	0.05	0.05	0.05	-0.01	0.00
	[0.016]**	[0.020]**	[0.018]**	[0.021]**	[0.036]	[0.056]*	[0.009]**	[0.013]**	[0.012]**	[0.016]**	[0.011]	[0.016]
White House	0.18	0.17	0.15	0.13	0.23	0.26	0.10	0.11	0.10	0.10	0.07	0.03
	[0.028]**	[0.032]**	[0.030]**	[0.032]**	[0.076]**	[0.112]*	[0.016]**	[0.021]**	[0.020]**	[0.025]**	[0.022]**	[0.032]
Aide	0.04	0.02	0.04	0.03	-0.04	-0.09	-0.01	-0.01	0.00	-0.01	-0.02	-0.02
	[0.017]*	[0.020]	[0.018]*	[0.021]	[0.037]	[0.055]	[0.010]	[0.013]	[0.012]	[0.016]	[0.011]	[0.016]
Clerk	0.05	0.03	0.02	0.01	0.05	0.03	0.00	0.01	-0.01	-0.01	-0.01	0.00
	[0.035]	[0.047]	[0.036]	[0.046]	[0.122]	[0.219]	[0.020]	[0.031]	[0.024]	[0.036]	[0.035]	[0.062]
Counsel	0.12	0.10	0.09	0.07	0.10	0.08	0.03	0.03	0.02	0.01	0.00	0.00
	[0.017]**	[0.020]**	[0.018]**	[0.021]**	[0.042]*	[0.064]	[0.010]**	[0.013]*	[0.012]	[0.016]	[0.012]	[0.018]
Experience in:												
1960s	0.07	0.06	0.05	0.05	0.12	0.06	0.08	0.10	0.08	0.10	0.06	0.07
	[0.038]	[0.043]	[0.040]	[0.044]	[0.120]	[0.182]	[0.022]**	[0.029]**	[0.026]**	[0.034]**	[0.035]	[0.051]
1970s	0.12	0.11	0.10	0.10	0.04	0.09	0.04	0.04	0.04	0.04	-0.02	-0.01
	[0.022]**	[0.025]**	[0.023]**	[0.025]**	[0.065]	[0.092]	[0.013]**	[0.017]*	[0.015]**	[0.020]	[0.019]	[0.026]
1980s	0.12	0.09	0.10	0.07	0.05	0.04	0.06	0.05	0.05	0.04	-0.02	0.00
	[0.019]**	[0.021]**	[0.020]**	[0.022]**	[0.053]	[0.073]	[0.011]**	[0.014]**	[0.013]**	[0.017]*	[0.015]	[0.020]
1990s	0.11	0.08	0.09	0.07	0.09	0.08	0.04	0.03	0.04	0.03	0.00	-0.01
	[0.019]**	[0.023]**	[0.021]**	[0.023]**	[0.050]	[0.073]	[0.011]**	[0.015]*	[0.014]**	[0.018]	[0.014]	[0.021]
2000s	-0.05	-0.04	-0.05	-0.03	-0.06	-0.06	-0.02	-0.02	-0.02	-0.01	-0.01	-0.02
	[0.020]*	[0.026]	[0.022]*	[0.027]	[0.048]	[0.075]	[0.012]	[0.017]	[0.015]	[0.021]	[0.014]	[0.021]
R-squared	0.09	0.08	0.08	0.08	0.03	0.03	0.08	0.08	0.07	0.07	0.02	0.01
Observations	13,720	8,004	9,325	5,788	4,395	2,216	13,720	8,004	9,325	5,788	4,395	2,216

Notes: Unit of observation is an individual lobbyist. All regressions include an experience dummy, indicating the availability of any experience detail as reported in the www.lobbyists.info records, and a constant. Robust standard errors in brackets. * significant at 5%; ** significant at 1%.

**Table 3: Who Makes Campaign Contributions to Whom?
The Role of Party and House/Senate Links**

Dependent Variable: Lobbyist Makes at Least One Campaign Contribution to that Legislator in that Congress

Congress:	108th			107th		
	(1)	(2)	(3)	(4)	(5)	(6)
Republican Congressman	-0.001 [0.0001]**		-0.001 [0.0001]**	-0.0002 [0.0001]*		-0.0002 [0.0001]*
Republican Lobbyist	-0.002 [0.0003]**	-0.002 [0.0003]**		-0.002 [0.0003]**	-0.002 [0.0003]**	
Republican Congressman*Republican Lobbyist	0.008 [0.0006]**	0.008 [0.0006]**	0.008 [0.0006]**	0.007 [0.0006]**	0.007 [0.0006]**	0.007 [0.0006]**
Democratic Lobbyist	0.011 [0.0008]**	0.011 [0.0008]**		0.008 [0.0008]**	0.008 [0.0008]**	
Republican Congressman*Democratic Lobbyist	-0.011 [0.0008]**	-0.011 [0.0008]**	-0.011 [0.0008]**	-0.009 [0.0007]**	-0.009 [0.0007]**	-0.009 [0.0007]**
Senator	0.004 [0.0002]**		0.004 [0.0002]**	0.002 [0.0001]**		0.002 [0.0001]**
Lobbyist Has Senate Experience	-0.0001 [0.0004]	-0.0001 [0.0004]		0.0002 [0.0004]	0.0002 [0.0004]	
Lobbyist Has House Experience	0.006 [0.0020]**	0.006 [0.0020]**		0.007 [0.0022]**	0.007 [0.0022]**	
Senator*Lobbyist Has Senate Experience	0.010 [0.0009]**	0.010 [0.0009]**	0.010 [0.0009]**	0.009 [0.0009]**	0.009 [0.0009]**	0.009 [0.0009]**
House Representative*Lobbyist Has House Experience	-0.004 [0.0015]*	-0.004 [0.0015]*	-0.004 [0.0015]*	-0.004 [0.0017]*	-0.004 [0.0017]*	-0.004 [0.0017]*
Congressman Fixed Effects	No	Yes	No	No	Yes	No
Lobbyist Fixed Effects	No	No	Yes	No	No	Yes
R-squared	0.00	0.02	0.02	0.00	0.01	0.02
Observations	4,575,967	4,575,967	4,575,967	3,979,756	3,979,756	3,979,756

Notes: Unit of observation is a lobbyist-politician pair. Within each Congress, we restrict ourselves to the subset of lobbyists for whom we could find background information on www.lobbyist.info and are active during that cycle and to the subset of politicians that are Members of Congress during that cycle. Robust Standard errors in brackets are clustered at the lobbyist level. * significant at 5%; ** significant at 1%

Table 4: Correlates of Lobbyists' Expertise

Sample:	Dependent Variable: Specialist (Y=1)						Dependent Variable: Issue-Based HHI					
	All		External		In-House		All		External		In-House	
	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Restrict to at Least 4 Active Years?	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Former Member of Congress	-0.02	-0.03	-0.06	-0.05	0.36	0.19	-0.01	-0.04	-0.03	-0.06	0.15	0.18
	[0.040]	[0.040]	[0.042]	[0.042]	[0.129]**	[0.142]	[0.028]	[0.030]	[0.030]	[0.031]	[0.093]	[0.112]
Republican	-0.04	-0.04	-0.04	-0.05	-0.04	-0.04	-0.06	-0.08	-0.08	-0.10	-0.04	-0.04
	[0.016]*	[0.017]**	[0.018]*	[0.018]*	[0.036]	[0.044]	[0.012]**	[0.013]**	[0.013]**	[0.014]**	[0.026]	[0.035]
Democrat	-0.05	-0.06	-0.06	-0.07	-0.01	-0.04	-0.07	-0.08	-0.09	-0.10	-0.03	-0.06
	[0.017]**	[0.018]**	[0.019]**	[0.019]**	[0.042]	[0.051]	[0.012]**	[0.014]**	[0.013]**	[0.014]**	[0.031]	[0.040]
Experience in/as:												
House (not rep)	0.02	0.09	0.02	0.08	0.02	0.27	0.03	0.05	0.03	0.04	-0.02	0.18
	[0.048]	[0.047]	[0.051]	[0.049]	[0.136]	[0.178]	[0.034]	[0.036]	[0.036]	[0.036]	[0.099]	[0.141]
Senate (not senator)	-0.01	0.03	0.00	0.04	-0.05	-0.02	-0.02	-0.01	-0.02	-0.01	-0.03	-0.04
	[0.016]	[0.016]	[0.017]	[0.018]*	[0.038]	[0.046]	[0.011]	[0.012]	[0.012]	[0.013]	[0.027]	[0.036]
White House	-0.09	-0.05	-0.10	-0.06	-0.05	0.07	-0.04	-0.03	-0.05	-0.04	-0.05	0.02
	[0.027]**	[0.026]*	[0.029]**	[0.027]*	[0.079]	[0.091]	[0.019]*	[0.020]	[0.020]*	[0.020]*	[0.058]	[0.072]
Aide	0.00	0.03	-0.01	0.04	0.03	0.01	-0.02	0.00	-0.04	0.00	0.03	0.01
	[0.016]	[0.016]*	[0.018]	[0.018]*	[0.039]	[0.045]	[0.011]	[0.012]	[0.013]**	[0.013]	[0.028]	[0.036]
Clerk	0.05	-0.03	0.05	-0.03	-0.04	-0.06	0.04	0.03	0.03	0.03	-0.05	-0.12
	[0.034]	[0.038]	[0.035]	[0.039]	[0.127]	[0.179]	[0.024]	[0.029]	[0.025]	[0.029]	[0.092]	[0.141]
Counsel	-0.02	0.00	-0.04	0.00	0.03	-0.02	0.02	0.03	0.01	0.02	0.00	-0.03
	[0.016]	[0.016]	[0.018]*	[0.018]	[0.044]	[0.052]	[0.012]	[0.012]*	[0.012]	[0.013]	[0.032]	[0.041]
Experience in:												
1960s	0.07	0.07	0.06	0.06	0.05	0.14	0.08	0.08	0.08	0.07	0.13	0.08
	[0.036]	[0.036]*	[0.038]	[0.037]	[0.124]	[0.148]	[0.026]**	[0.027]**	[0.027]**	[0.028]*	[0.090]	[0.117]
1970s	-0.03	0.02	-0.03	0.02	-0.05	-0.02	0.03	0.04	0.04	0.04	-0.08	-0.06
	[0.021]	[0.021]	[0.022]	[0.022]	[0.068]	[0.075]	[0.015]*	[0.016]*	[0.016]*	[0.016]*	[0.049]	[0.059]
1980s	-0.03	0.00	-0.03	-0.01	-0.01	0.04	0.01	0.01	0.00	0.00	0.01	0.03
	[0.018]	[0.018]	[0.019]	[0.019]	[0.055]	[0.059]	[0.013]	[0.013]	[0.014]	[0.014]	[0.040]	[0.047]
1990s	-0.02	0.02	-0.03	0.01	0.01	0.06	-0.02	0.00	-0.02	-0.01	0.01	0.05
	[0.019]	[0.019]	[0.020]	[0.020]	[0.051]	[0.059]	[0.013]	[0.014]	[0.014]	[0.015]	[0.037]	[0.047]
2000s	0.05	-0.02	0.06	-0.01	-0.04	-0.14	0.01	-0.02	0.01	-0.01	-0.01	-0.06
	[0.020]*	[0.021]	[0.022]**	[0.023]	[0.050]	[0.061]*	[0.014]	[0.016]	[0.015]	[0.017]	[0.036]	[0.048]
R-Squared	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.02	0.03	0.03	0.00	0.01
Observations	13,720	8,004	9,325	5,788	4,395	2,216	13,720	8,004	9,325	5,788	4,395	2,216

Notes: Unit of observation is an individual lobbyist. All regressions include an experience dummy and a constant. Robust standard errors in brackets. * significant at 5%; ** significant at 1%. HHI indicates a congressional issue-based Herfindahl index constructed from dollar values attributed to each issue covered by a lobbyist from individual SOPR reports.

Table 5: Do Connections through Campaign Contributions Correlate with Overlapping Issues between Lobbyists and Congressmen?

Congress	108th				107th			
	<i>Number of Issues Covered by the Legislator in Congress (t) that the Lobbyists Covers in Congress (t)</i>		<i>Lobbyist Works on All the Issues Covered by the Legislator in Congress (t) (Y=1)</i>		<i>Number of Issues Covered by the Legislator in Congress (t) that the Lobbyists Covers in Congress (t)</i>		<i>Lobbyist Works on All the Issues Covered by the Legislator in Congress (t) (Y=1)</i>	
<i>Dependent Variable:</i>	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Lobbyist made at least one campaign contribution to that Congressman in Congress (t)? (Y=1)	0.913	0.435	0.029	0.019	1.023	0.400	0.024	0.017
	[0.0531]**	[0.0261]**	[0.0024]**	[0.0031]**	[0.0670]**	[0.0361]**	[0.0027]**	[0.0039]**
Republican Lobbyist	0.576		0.014		0.519		0.011	
	[0.0538]**		[0.0018]**		[0.0616]**		[0.0018]**	
Republican Congressman*Republican Lobbyist	0.032	0.036	0.001	0.001	0.019	0.023	0.002	0.002
	[0.0032]**	[0.0032]**	[0.0002]**	[0.0002]**	[0.0028]**	[0.0028]**	[0.0003]**	[0.0003]**
Democratic Lobbyist	0.452		0.014		0.521		0.013	
	[0.0542]**		[0.0019]**		[0.0641]**		[0.0018]**	
Republican Congressman*Democratic Lobbyist	0.043	0.038	0.001	0.001	0.037	0.031	0.002	0.002
	[0.0036]**	[0.0034]**	[0.0002]**	[0.0002]**	[0.0034]**	[0.0031]**	[0.0003]**	[0.0003]**
Lobbyist Has Senate Experience	0.045		0.004		0.088		0.003	
	[0.0513]		[0.0023]		[0.0589]		[0.0022]	
Senator*Lobbyist has Senate Experience	0.299	0.304	-0.014	-0.014	0.326	0.331	-0.012	-0.012
	[0.0334]**	[0.0336]**	[0.0020]**	[0.0020]**	[0.0383]**	[0.0384]**	[0.0020]**	[0.0020]**
Lobbyist Has House Experience	0.312		-0.009		0.205		-0.008	
	[0.1726]		[0.0010]**		[0.1767]		[0.0010]**	
House Representative*Lobbyist has House Experience	-0.277	-0.279	0.010	0.010	-0.228	-0.230	0.010	0.010
	[0.0781]**	[0.0782]**	[0.0046]*	[0.0046]*	[0.0795]**	[0.0798]**	[0.0042]*	[0.0042]*
Republican Congressman		0.083		0.019		0.056		0.048
		[0.0010]**		[0.0001]**		[0.0008]**		[0.0001]**
Senator		0.828		-0.102		0.850		-0.101
		[0.0102]**		[0.0007]**		[0.0115]**		[0.0007]**
Constant	1.0338	0.9766	0.1116	0.1235	1.049	1.0088	0.1386	0.1342
	[0.0138]**	[0.0027]**	[0.0006]**	[0.0002]**	[0.0152]**	[0.0030]**	[0.0006]**	[0.0001]**
R-squared	0.21	0.42	0.76	0.04	0.23	0.39	0.81	0.03
Observations	4,575,967	4,575,967	4,575,967	4,575,967	3,979,756	3,979,756	3,979,756	3,979,756
Lobbyist F.E.s	No	Yes	No	Yes	No	Yes	No	Yes
Congressman F.E.s	Yes	No	Yes	No	Yes	No	Yes	No

Notes: Unit of observation is a lobbyist-politician pair. Within each Congress, we restrict ourselves to the subset of active lobbyists and to the subset of politicians that are Members of Congress during that cycle. Robust Standard errors in brackets are clustered at the lobbyist level. * significant at 5%; ** significant at 1%

Table 6: Do Lobbyists Follow Politicians They Are Connected to as Those Politicians Switch Committee Assignments?

<i>Panel A. Dependent Variable: Number of new issues for the legislator and for the lobbyist in Congress (t+1)</i>								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Lobbyist made at least one campaign contribution to that Congressman in Congress (t)? (Y=1)	0.123 [.008]**	0.119 [.008]**	0.04 [.007]**	0.03 [.007]**	0.031 [.0110]**	0.044 [.008]**		
Lobbyist made at least one campaign contribution to that Congressman in each Congress the pair is observed in the data, up to Congress (t)? (Y=1)							0.027	0.056
							[0.01]**	[0.013]**
Number of new issues for the legislator in Congress (t+1) that the Lobbyist covers in Congress (t)	0.166 [.002]**	0.133 [.002]**	0.135 [.002]**	0.09 [.002]**	0.083 [.0024]**	0.076 [.002]**	0.09 [0.002]**	0.084 [0.002]**
Number of issues covered by the legislator in Congress (t) that the Lobbyists covers in Congress (t)	0.004 [.0004]**	0.008 [.0004]**	-0.023 [.0006]**	-0.03 [.0008]**	-0.037 [.0009]**	-0.017 [.0008]**	-0.03 [0.000]**	-0.023 [0.0006]**
Number of issues covered by the legislator in Congress (t-1) that the Lobbyists covers in Congress (t-1)						-0.002 [.0007]		
Inverse Mills Ratio from Selection Equation					0.004 [.002]**	-0.034 [.004]**		
Observations	8,834,550	8,834,550	8,834,550	8,834,550	8,834,550	3,555,777	8,834,550	6,583,218
Congress F.E.s	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lobbyist F.E.s	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Congressman F.E.s	No	Yes	No	Yes	Yes	Yes	Yes	Yes

(t) >= 107th Congress

<i>Panel B. Selection Equation for Legislators Changing of Committee. Dependent Variable: Committee Change by Legislator</i>								
Number of Openings of Congressional Committee Seats					0.005	0.005		
Above Current Average Grosewart Rank of Legislator					[.0007]**	[.0007]**		
Chamber Seniority of Legislator					-0.130 [.0134]**	-0.130 [.0134]**		
Congress F.E.s					Yes	Yes		
Observations					1882	1882		

Notes: Unit of observation is a lobbyist-politician pair. Within each Congress, we restrict ourselves to the subset of active lobbyists in that cycle and to the subset of active politicians that switch committee assignments between two consecutive Congresses. Robust standard errors in brackets are clustered at the lobbyist level in Panel A and politician level in Panel B. * significant at 5%; ** significant at 1%

Table 7: Politicians and Expert Lobbyists

<i>Dependent Variable: Share of Lobbyists from Opposite Party Connected to the Politician by Specialist/Non-Specialist Status</i>									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Specialist? (Y=1)	0.093	0.098	0.111	0.117	0.107	0.084	0.069	0.149	0.047
	[.0102]**	[.0112]**	[.0357]**	[.0301]**	[.0280]**	[.0222]**	[.0191]**	[.0161]**	[.0149]**
Mean of Share of Opposite Party Non-Specialists (percent of all connected Non-Specialists)	0.170	0.170	0.172	0.180	0.189	0.168	0.142	0.121	0.218
Observations	4,655	4,655	822	900	947	1,022	964	2,282	2,373
Congress F.E.s/Congress Number	Yes	Yes	106th	107th	108th	109th	110th	Yes	Yes
Congressman F.E.s	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Notes: Unit of observation is an individual politician. Shares are constructed from connected lobbyists with explicit party affiliations in www.lobbyists.info. Standard errors in brackets clustered at the politician level. * significant at 5%; ** significant at 1%. Samples/fixed effects structure for Columns (1)-(7) are described below estimates. Column (8) includes only Democrat congressmen and Column (9) includes only Republicans.

Table 8: Valuing Expertise and Connections - Lobbying Report Analysis

External Lobbying Only			
<i>Dependent Variable: Log (Amount)</i>			
	(1)	(2)	(3)
At Least One Specialist Matching an Issue	0.033	0.035	0.051
	[0.004]**	[0.004]**	[0.004]**
At Least One Connection to a Politician Covering an Issue	0.08	0.097	0.087
	[0.004]**	[0.004]**	[0.005]**
Average Tenure	0.001	-0.01	-0.01
	[0.002]	[0.002]**	[0.002]**
Average Number of Active Years	0.008	0.023	0.025
	[0.001]**	[0.002]**	[0.002]**
Average Number of Reports Per Lobbyist	-0.001	-0.002	-0.002
	[0.000]**	[0.000]**	[0.000]**
Share Former Member of Congress			0.121
			[0.013]**
Share Republicans			0.09
			[0.006]**
Share Democrats			0.058
			[0.007]**
Share with Experience in/as:			
House (but not as house representatives)			0.016
			[0.016]
Senate (but not as Senators)			-0.011
			[0.006]
White House			0.203
			[0.010]**
Aides			-0.004
			[0.006]
Clerks			0.03
			[0.015]*
Counsels			0.07
			[0.006]**
Any Distinctive Experience			-0.136
			[0.011]**
Fixed Effects for:			
Number of Lobbyists Included on the Report	Yes	Yes	Yes
Report Type	Yes	Yes	Yes
Issues covered by the report	Yes	Yes	Yes
Year of Report	Yes	Yes	Yes
Only lobbyists in Lobbyist.info sample?	No	Yes	Yes
R-squared	0.25	0.25	0.26
Observations	191,240	165,885	165,885

Notes: Unit of observation is a SOPR report record filed by a registering firm different from the client firm (i.e. filed by external lobbyists). All controls are relative to the pool of individual lobbyists listed on the report, unweighted. Any distinctive experience indicates any experience detail reported in the www.lobbyists.info records. Also included are dummies for lobbyists' experience in the 1960s, 1970s, 1980s, 1990s and 2000s. Robust standard errors at in brackets. * significant at 5%; ** significant at 1%

Table 9: Valuing Expertise and Connections - Lobbyist-Level Analysis
External Lobbyists with at least 6 Years of Active Experience Only

	<i>Dependent Variable: Lobbyist's Estimated Fixed Effect</i>											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Issue-Based HHI	-0.233	-0.227	-0.218	-0.231	-0.214	-0.218						
	[0.026]**	[0.029]**	[0.027]**	[0.023]**	[0.025]**	[0.029]**						
Specialist							-0.012	-0.016	-0.005	-0.02	-0.027	-0.009
							[0.017]	[0.019]	[0.022]	[0.017]	[0.021]	[0.020]
At Least One Connection	0.07	0.03	0.009				0.095	0.062	0.043			
	[0.017]**	[0.020]	[0.019]				[0.016]**	[0.019]**	[0.022]			
At Least Five Connections				0.076	0.073	0.055				0.098	0.094	0.073
				[0.016]**	[0.017]**	[0.019]**				[0.017]**	[0.020]**	[0.020]**
Number of Active Years	-0.014	-0.012	-0.006	-0.018	-0.017	-0.009	-0.01	-0.008	-0.005	-0.014	-0.013	-0.006
	[0.008]	[0.008]	[0.008]	[0.007]*	[0.007]*	[0.008]	[0.007]	[0.008]	[0.009]	[0.008]	[0.009]	[0.008]
Tenure	0.031	0.04	0.033	0.045	0.045	0.036	0.03	0.033	0.026	0.042	0.044	0.031
	[0.016]	[0.017]*	[0.015]*	[0.014]**	[0.014]**	[0.016]*	[0.015]*	[0.017]*	[0.019]	[0.015]**	[0.018]*	[0.017]
Former Memb. Of Congress			0.017			0.036			0.085			0.052
			[0.048]			[0.050]			[0.058]			[0.053]
Republican			0.039			0.032			0.061			0.071
			[0.024]			[0.025]			[0.028]*			[0.026]**
Democrat			0.034			0.03			0.046			0.053
			[0.025]			[0.026]			[0.029]			[0.027]*
Experience in/as:												
House (but not as House Rep.)			-0.012			-0.024			-0.001			0.016
			[0.061]			[0.064]			[0.074]			[0.067]
Senate (but not as Senator)			0.019			0.016			0.02			0.013
			[0.022]			[0.023]			[0.027]			[0.024]
White House			0.133			0.119			0.127			0.145
			[0.034]**			[0.036]**			[0.041]**			[0.038]**
Aide			-0.048			-0.045			-0.03			-0.03
			[0.022]*			[0.023]			[0.027]			[0.024]
Clerk			0.108			0.133			0.103			0.11
			[0.047]*			[0.049]**			[0.057]			[0.052]*
Counsel			0.036			0.033			0.044			0.043
			[0.022]			[0.023]			[0.026]			[0.024]
Any Distinctive Experience			-0.071			-0.04			-0.067			-0.063
			[0.038]			[0.040]			[0.046]			[0.042]
Constant	15.055	15.027	15.064	15.067	15.052	15.044	14.928	14.924	14.959	14.964	14.953	14.968
	[0.040]**	[0.046]**	[0.056]**	[0.035]**	[0.039]**	[0.059]**	[0.036]**	[0.043]**	[0.066]**	[0.036]**	[0.046]**	[0.060]**
Observations	3,926	2,830	2,830	3,926	2,830	2,830	3,926	2,830	2,830	3,926	2,830	2,830

Notes: Unit of Observation is the individual lobbyist, conditional on being observed at least 6 years in the sample. Dependent variable is the fixed effect of a report-level value regression. Median regressions. Each observation is weighted by the inverse of the standard error on the estimated fixed effects we use as dependent variable. Any distinctive experience indicates any experience detail reported in the www.lobbyists.info records. Also included are dummies for lobbyists' experience in the 1960s, 1970s, 1980s, 1990s and 2000s. Robust standard errors at in brackets. * significant at 5%; ** significant at 1%

Table 10a: Issue Booms and Expertise - Issue Analysis

<i>Dependent Variable</i>		
	Δ Log total lobbyists in issue	Log total lobbyists in issue
	(1)	(2)
Δ Log total amount in issue	0.501 [0.062]**	
Log total amount in issue		0.491 [0.066]**
Issue Specific Trend	No	Yes
Issue F.E.s	No	Yes
Observations	684	760
R-squared	0.49	0.98

<i>Dependent Variable</i>		
	Δ share specialists in issue	Share specialists in issue
Δ Log total amount in issue	-0.021 [0.007]**	
Log total amount in issue		-0.022 [0.006]**
Issue Specific Trend	No	Yes
Issue F.E.s	No	Yes
Observations	684	760
R-squared	0.07	0.74

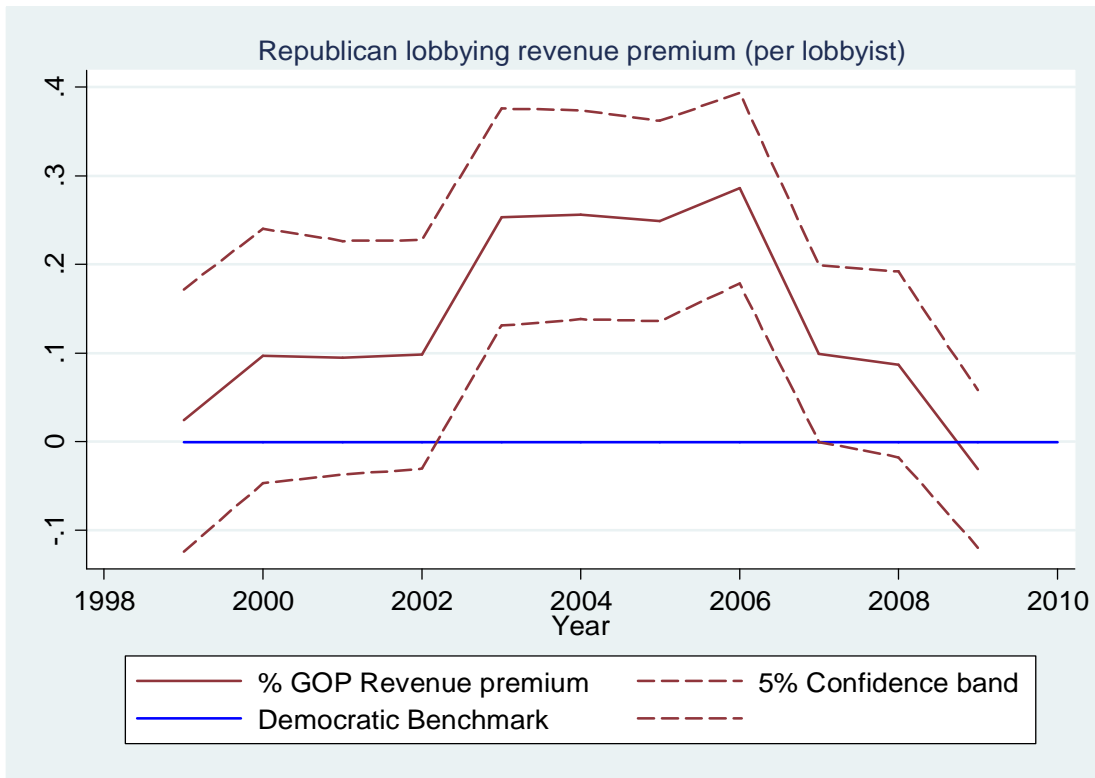
Notes: Unit of observation is a SOPR lobbying issue per year. Standard errors are clustered at the issue level. * significant at 5%; ** significant at 1%

Table 10b: Issue Booms and Expertise - Lobbyist Analysis

<i>Dependent Variable</i>		
	Log per Lobbyist Amount	Log per Lobbyist Amount
	(1)	(2)
Σ_i [Total amount in issue i *Specialist in issue i]	0.000035 [0.000097]	
Σ_i [Log total amount in issue i *Specialist in issue i]		-4254.96 [9040.62]
Year F.E.s	Yes	Yes
Lobbyist F.E.s	Yes	Yes
R-squared	0.48	0.48
Observations	144,137	144,137

Notes: Unit of observation is an individual lobbyist. Standard errors are clustered at the lobbyist level. * significant at 5%; ** significant at 1%

Figure 1: Republican Lobbyist Revenue Premium



Online Appendix
Not for Publication

Appendix Table A1: Technical Expertise in Two Large Lobbying Firms

Firm	Employee name	Position	Issue	Bar	Issue-specific	
					Training	Registered lobbyist
Cassidy & Assoc.	Boylan, John	Senior Vice President	aerospace	0	1	1
		Founder & Executive				
Cassidy & Assoc.	Cassidy, Gerald S. J.	Chairman	aerospace	1	0	1
		Vice President and Deputy				
Cassidy & Assoc.	Edwards, Shawn	Director of Cassidy Defense	aerospace	0	0	1
Cassidy & Assoc.	Hegarty, Mark	Senior Vice President	aerospace	0	1	1
Cassidy & Assoc.	McNamara, Dan	Executive Vice President	aerospace	0	0	1
Cassidy & Assoc.	Meyers, George	Vice President	aerospace	0	1	1
		Executive Vice President and Director of Defense				
Cassidy & Assoc.	Paul, Terry	Group	aerospace	0	1	1
		Senior Vice Chairman &				
Cassidy & Assoc.	Russo, Marty	Chief Executive Officer	aerospace	1	0	1
Cassidy & Assoc.	Simmons, Vernon	Vice President	aerospace	0	1	1
Cassidy & Assoc.	Videnieks, Markus	Vice President	aerospace	0	0	1
			energy efficiency, power storage, green buildings			
Cassidy & Assoc.	Anderson, Kai	Executive Vice President	energy efficiency, power storage, green buildings	0	1	1
			energy efficiency, power storage, green buildings			
Cassidy & Assoc.	Burlij, Emily	Associate	energy efficiency, power storage, green buildings	1	0	1
			energy efficiency, power storage, green buildings			
Cassidy & Assoc.	Crespo, Jacqueline	Senior Associate	energy efficiency, power storage, green buildings	0	1	0
			energy efficiency, power storage, green buildings			
Cassidy & Assoc.	Dennis, Tom	Executive Vice President	storage, green buildings	0	0	1
Cassidy & Assoc.	Anderson, Kai	Executive Vice President	nuclear power	0	1	1
Cassidy & Assoc.	Burlij, Emily	Associate	nuclear power	1	0	1
Cassidy & Assoc.	Crespo, Jacqueline	Senior Associate	nuclear power	0	1	0
Cassidy & Assoc.	Dennis, Tom	Executive Vice President	nuclear power	0	0	1
Cassidy & Assoc.	Anderson, Kai	Executive Vice President	technology	0	1	1
Cassidy & Assoc.	Boylan, John	Senior Vice President	technology	0	1	1
Cassidy & Assoc.	Chapman, Justin	Account Coordinator	technology	0	0	0
Cassidy & Assoc.	Crespo, Jacqueline	Senior Associate	technology	0	1	0
Cassidy & Assoc.	Dennis, Tom	Executive Vice President	technology	0	0	1
		Vice President and Deputy				
Cassidy & Assoc.	Edwards, Shawn	Director of Cassidy Defense	technology	0	0	1
		Vice Chairman & Chief				
Cassidy & Assoc.	Hartley, Gregg L.	Operating Officer	technology	0	0	1
Cassidy & Assoc.	Hegarty, Mark	Senior Vice President	technology	0	1	1
		Executive Vice President for				
Cassidy & Assoc.	Hochstein, Amos	International Operations	technology	0	0	1
Cassidy & Assoc.	Ide, Betsy	Vice President	technology	0	0	1
Cassidy & Assoc.	Levy, Dawn	Senior Vice President	technology	0	0	1
Cassidy & Assoc.	McNamara, Dan	Executive Vice President	technology	0	0	1
Cassidy & Assoc.	Meyers, George	Vice President	technology	0	1	1
Cassidy & Assoc.	Neal, Laura	Senior Vice President	technology	0	0	1
		Executive Vice President and Director of Defense				
Cassidy & Assoc.	Paul, Terry	Group	technology	0	1	1
		Senior Vice Chairman &				
Cassidy & Assoc.	Russo, Marty	Chief Executive Officer	technology	1	0	1
Cassidy & Assoc.	Simmons, Vernon	Vice President	technology	0	1	1
Cassidy & Assoc.	Sutton, Barbara	Executive Vice President	technology	0	0	1
Cassidy & Assoc.	Temple, Roy	Senior Vice President	technology	1	0	1
Patton Boggs LLP	Chambers, Scott	Partner	biotechnology	1	1	0
Patton Boggs LLP	Chism, B. Dell	Patent Agent	biotechnology	0	1	0
Patton Boggs LLP	McKeague, W. John	Associate	biotechnology	1	1	0

Appendix Table A1: Technical Expertise in Two Large Lobbying Firms (cont.)

Firm	Employee name	Position	Issue	Issue-specific		
				Bar	Training	Registered lobbyist
Patton Boggs LLP	Bell, Chris	Of Counsel	clean technology	1	0	1
Patton Boggs LLP	Chajet, Henry	Partner	clean technology	1	0	1
Patton Boggs LLP	Driver, Michael	Partner	clean technology	1	0	1
Patton Boggs LLP	Farber, David	Partner	clean technology	1	0	1
Patton Boggs LLP	Forest, Carl	Partner	clean technology	1	1	0
Patton Boggs LLP	Frank, Michele	Partner	clean technology	1	0	0
Patton Boggs LLP	Graziano, James	Partner	clean technology	1	1	0
Patton Boggs LLP	Greene, Joshua	Partner	clean technology	1	0	1
Patton Boggs LLP	Harris, Laurence	Senior Counsel	clean technology	1	0	1
Patton Boggs LLP	Horn, Robert	Partner	clean technology	1	0	1
Patton Boggs LLP	Johnson, Gregory	Partner	clean technology	1	0	0
Patton Boggs LLP	Kelly, Suedeen	Partner	clean technology	1	0	0
Patton Boggs LLP	Mayer, David	Partner	clean technology	1	0	0
Patton Boggs LLP	McIntosh, Carolyn	Partner	clean technology	1	0	1
Patton Boggs LLP	Passaic, Joseph	Partner	clean technology	1	0	0
Patton Boggs LLP	Ryan, Deborah	Partner	clean technology	1	0	0
Patton Boggs LLP	Savit, Mark	Partner	clean technology	1	0	1
Patton Boggs LLP	Stewart, Scott	Partner	clean technology	1	0	0
Patton Boggs LLP	Witt, Kenneth	Partner	clean technology	1	0	0
Patton Boggs LLP	Chambers, Scott	Partner	drugs/biologics	1	1	0
Patton Boggs LLP	Herbert, Toni-Junell	Partner	drugs/biologics	1	1	0
Patton Boggs LLP	Nuttall, Carey	Associate	drugs/biologics	1	0	0
Patton Boggs LLP	Pape, Stuart	Partner	drugs/biologics	1	0	1
Patton Boggs LLP	Rubin, Paul	Partner	drugs/biologics	1	0	1
Patton Boggs LLP	Shanks, Mark	Partner	drugs/biologics	1	1	1
Patton Boggs LLP	Nuttall, Carey	Associate	medical devices and diagnostics	1	0	0
Patton Boggs LLP	Pape, Stuart	Partner	medical devices and diagnostics	1	0	1
Patton Boggs LLP	Rubin, Paul	Partner	medical devices and diagnostics	1	0	1
Patton Boggs LLP	Kelly, Suedeen	Partner	nuclear	1	0	0
Patton Boggs LLP	Lessy, Roy	Partner	nuclear	1	0	1
Patton Boggs LLP	Allard, Nicholas	Partner	smart grid	1	0	1
Patton Boggs LLP	Arbuckle, J. Gordon	Partner	smart grid	1	0	0
Patton Boggs LLP	Barton, Betty	Public Policy Advisor	smart grid	0	0	1
Patton Boggs LLP	Besozzi, Paul	Partner	smart grid	1	0	1
Patton Boggs LLP	Cetta, Jennifer	Associate	smart grid	1	0	1
Patton Boggs LLP	Didden, Carly	Associate	smart grid	1	0	1
Patton Boggs LLP	Driver, Michael	Partner	smart grid	1	0	1
Patton Boggs LLP	Ellison, Mark	Partner	smart grid	1	0	1
Patton Boggs LLP	Farber, David	Partner	smart grid	1	0	1
Patton Boggs LLP	Greene, Joshua	Partner	smart grid	1	0	1
Patton Boggs LLP	Johnson, Gregory	Partner	smart grid	1	0	0
Patton Boggs LLP	Joliver, Meredith	Associate	smart grid	1	0	0
Patton Boggs LLP	Kelly, Suedeen	Partner	smart grid	1	0	0
Patton Boggs LLP	Krayem, Norma	Senior Policy Advisor	smart grid	0	0	1
Patton Boggs LLP	Lodge, Deborah	Partner	smart grid	1	0	1
Patton Boggs LLP	Martin, Kevin	Partner	smart grid	1	0	0
Patton Boggs LLP	McIntosh, Carolyn	Partner	smart grid	1	0	1
Patton Boggs LLP	Moran, Janet	Partner	smart grid	1	0	1
Patton Boggs LLP	Richter, Jennifer	Partner	smart grid	1	0	1
Patton Boggs LLP	Talesnick, Alan	Partner	smart grid	1	0	0
Patton Boggs LLP	Turner, Jeffrey	Partner	smart grid	1	0	1
Patton Boggs LLP	Voorhees, John	Partner	smart grid	1	0	1
Patton Boggs LLP	White, Eric	Partner	smart grid	1	0	0
Patton Boggs LLP	Allard, Nicholas	Partner	technology and communications	1	0	1
Patton Boggs LLP	Berry, Matthew	Partner	technology and communications	1	0	0
Patton Boggs LLP	Besozzi, Paul	Partner	technology and communications	1	0	1

Appendix Table A1: Technical Expertise in Two Large Lobbying Firms (cont.)

Firm	Employee name	Position	Issue	Issue-specific		
				Bar	Training	Registered lobbyist
Patton Boggs LLP	Bright, William	Public Policy Advisor	technology and communications	1	0	1
Patton Boggs LLP	Cetta, Jennifer	Associate	technology and communications	1	0	1
Patton Boggs LLP	Desai, Monica	Partner	technology and communications	1	0	0
Patton Boggs LLP	Didden, Carly	Associate	technology and communications	1	0	1
Patton Boggs LLP	Ellison, Mark	Partner	technology and communications	1	0	1
Patton Boggs LLP	Forest, Carl	Partner	technology and communications	1	1	0
Patton Boggs LLP	Gavin, Stephen Diaz	Partner	technology and communications	1	0	1
Patton Boggs LLP	Graziano, James	Partner	technology and communications	1	1	0
Patton Boggs LLP	Hager, Robert	Partner	technology and communications	1	0	1
Patton Boggs LLP	Harris, Laurence	Senior Counsel	technology and communications	1	0	1
Patton Boggs LLP	Ireland, Kathleen	Public Policy Counselor	technology and communications	0	0	1
Patton Boggs LLP	Kim, Hwan	Partner	technology and communications	1	0	0
Patton Boggs LLP	King, Ryan	Associate	technology and communications	1	0	0
Patton Boggs LLP	Lane, Margaret	Senior Paralegal	technology and communications	0	0	0
Patton Boggs LLP	Lodge, Deborah	Partner	technology and communications	1	0	1
Patton Boggs LLP	Martin, Kevin	Partner	technology and communications	1	0	0
Patton Boggs LLP	Moran, Janet	Partner	technology and communications	1	0	1
Patton Boggs LLP	Reeder, James	Senior Counsel	technology and communications	1	0	1
Patton Boggs LLP	Reisenfeld, Kenneth	Partner	technology and communications	1	0	0
Patton Boggs LLP	Richter, Jennifer	Partner	technology and communications	1	0	1
Patton Boggs LLP	Sachs, Lesley Bowling	Associate	technology and communications	1	0	0
Patton Boggs LLP	Stolbach, Richard	Partner	technology and communications	1	0	0
Patton Boggs LLP	Turner, Jeffrey	Partner	technology and communications	1	0	1
Patton Boggs LLP	Yarowsky, Jonathan	Partner	technology and communications	1	0	1

Notes: Employee listings and biographies as of November 2010. Bar indicates bar association membership.

Issue-specific training indicates the academic or professional technical background, including military.

Reference web pages: <http://www.pattonboggs.com/attorneys/List.aspx> and <http://www.cassidy.com/team/>

Appendix Table A2: Campaign Contributions and Politicians' Political Prominence

<i>Dependent Variable:</i>	<i>Lobbyist Made at Least One Campaign Contribution to Politician in Congress (t)</i>			<i>Lobbyist Made a First-Time Campaign Contribution to Politician in Congress (t)</i>		
	(1)	(2)	(3)	(4)	(5)	(6)
Average Grosewart Rank of Politician in Congress ($t+1$) (*1/1000)	0.006 0.035			0.02 [0.078]		
Politician Chairs a Committee in Congress ($t+1$) (*1/1000)	-0.455 [1.068]			0.17 [0.915]		
Average Grosewart Rank of Politician in Congress (t) (*1/1000)		-0.022 [0.023]			-0.002 [0.032]	
Politician Chairs a Committee in Congress (t) (*1/1000)		-0.476 [0.470]			-1.335 [0.829]	
Average Grosewart Rank of Politician in Congress ($t-1$) (*1/1000)			-0.042 [0.048]			-0.043 [0.043]
Politician Chairs a Committee in Congress ($t-1$) (*1/1000)			1.168 [1.864]			-1.337 [1.658]
Congress F.E.s	Yes	Yes	Yes	Yes	Yes	Yes
Congressman F.E.s	Yes	Yes	Yes	Yes	Yes	Yes
R-squared	0.003	0.002	0.004	0.006	0.003	0.003
Observations	18,021,285	35,953,757	16,178,596	7,989,612	18,756,409	16,178,596

Notes: The sample includes all politician-lobbyists pairs. Average Grosewart Rank measures the average rank of the politician's committee assignments at Congress t . Dependent variable is a contribution in a politician-lobbyist pair in columns (1)-(3) and a first observed contribution in a politician-lobbyist pair in columns (4)-(5).

Appendix Table A3: Campaign Contributions by Ex-Staffers in Competitive vs. Non-Competitive Electoral Races

	<i>Dependent Variable: Lobbyist Makes at Least One Campaign Contribution to that Legislator in that Congress</i>					
	(1)	(2)	(3)	(4)	(5)	(6)
Log(margin of victory)	0.005			-0.014		
	[0.016]			[0.025]		
Margin of victory<5 percent (Y=1)		-0.010			0.017	
		[0.064]			[0.059]	
Margin of victory<10 percent (Y=1)			-0.033			0.011
			[0.050]			[0.057]
Congress F.E.s	Yes	Yes	Yes	Yes	Yes	Yes
Congresman F.E.s	No	No	No	Yes	Yes	Yes
Observations	1,217	1,217	1,217	1,217	1,217	1,217
R-squared	0.008	0.008	0.009	0.357	0.356	0.356

Notes: Sample includes members of the House in Congresses 106 to 109 and lobbyists that are former staff members for the representatives as coded by Blanes-i-Vidal et al. (2012). Campaign contributions during congressional cycle t are regressed on victory margin in race for Congress t+1. Margin of victory is the difference between the number of votes to winner and number of votes to second candidate divided by their sum.

**Appendix Table A4: Do Lobbyists Follow Politicians They Are Connected to as Those Politicians Switch Committee Assignments?
Heterogeneity of Effect Across Lobbyists and Congressmen**

<i>Dependent Variable: Number of new issues for the legislator and for the lobbyist in Congress (t+1)</i>												
Sample:	Lobbyist is from the Same Party as Congressman?						Lobbyist is a Specialist?					
	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	No	No
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Lobbyist made at least one campaign contribution to that Congressman in Congress (t)? (Y=1)	0.075	0.066	0.04	0.020	0.011	-0.0006	0.077	0.025	0.021	0.138	0.046	0.03
	[0.018]**	[0.016]**	[0.015]**	[0.029]	[0.030]	[0.029]	[0.011]**	[0.010]*	[0.01]*	[0.010]**	[0.009]**	[0.008]**
Number of new issues for the legislator in Congress (t+1) that the Lobbyist covers in Congress (t)	0.128	0.181	0.078	0.13	0.177	0.083	0.144	0.113	0.09	0.119	0.137	0.08
	[0.006]**	[0.005]**	[0.006]**	[0.005]**	[0.005]**	[0.005]	[0.006]**	[0.005]**	[0.005]**	[0.002]**	[0.002]**	[0.002]**
Number of issues covered by the legislator in Congress (t) that the Lobbyists covers in Congress (t)	-0.001	-0.036	-0.05	-0.002	-0.035	-0.05	0.018	-0.02	-0.023	0.002	-0.024	-0.032
	[0.001]	[0.002]**	[0.003]**	[0.001]	[0.002]**	[0.002]	[0.001]**	[0.002]**	[0.002]	[0.000]**	[0.001]**	[0.0008]
Congress F.E.s	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Congressman F.E.s	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes
Lobbyist F.E.s	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes
R-squared	0.148	0.187	#	0.144	0.187	#	0.071	0.193	#	0.105	0.186	#
Observations	450,912	450,912	450,913	454,880	454,880	454,881	2,613,988	2,613,988	2,613,989	6,220,562	6,220,562	6,220,563

Notes: Unit of observation is a lobbyist-politician pair. Within each Congress, we restrict ourselves to the subset of active lobbyists in that cycle and to the subset of active politicians that switch committee assignments between two consecutive Congresses. Robust standard errors in brackets are clustered at the lobbyist level. * significant at 5%; ** significant at 1%. # The specification with lobbyist and politician fixed effects was estimated with a custom command which does not provide R-squared as output.

Appendix Table A5: Do Lobbyists Follow Freshmen They Are Connected to as Those Politicians Are Elected and Gain Committee Assignments?

<i>106th-107th Congress. Dependent Variable: Number of new issues for the legislator and for the lobbyist in Congress (t+1)</i>				
	(1)	(2)	(3)	(4)
Lobbyists made at least one campaign contribution to that Congressman in Congress (t)? (Y=1)	0.330	0.293	0.173	0.111
	[.0306]**	[.01244]**	[.0307]**	[.0207]**
Number of new issues for the legislator in Congress (t+1) that the Lobbyist covers in Congress (t)	0.160	0.145	0.043	0.002
	[.0032]**	[.0033]**	[.0032]**	[.0017]
Observations	1,892,714	1,892,714	1,892,714	1,892,714
Congress F.E.s	Yes	Yes	Yes	Yes
Lobbyist F.E.s	No	No	Yes	Yes
Congressman F.E.s	No	Yes	No	Yes
<i>108th-109th Congress. Dependent Variable: Number of new issues for the legislator and for the lobbyist in Congress (t+1)</i>				
	(1)	(2)	(3)	(4)
Lobbyists made at least one campaign contribution to that Congressman in Congress (t)? (Y=1)	0.294	0.256	0.151	0.087
	[.0274]**	[.0273]**	[.0192]**	[.0186]**
Number of new issues for the legislator in Congress (t+1) that the Lobbyist covers in Congress (t)	0.171	0.159	0.050	0.013
	[.0029]**	[.0030]**	[.0022]**	[.0023]**
Observations	2,074,584	2,074,584	2,074,584	2,074,584
Congress F.E.s	Yes	Yes	Yes	Yes
Lobbyist F.E.s	No	No	Yes	Yes
Congressman F.E.s	No	Yes	No	Yes

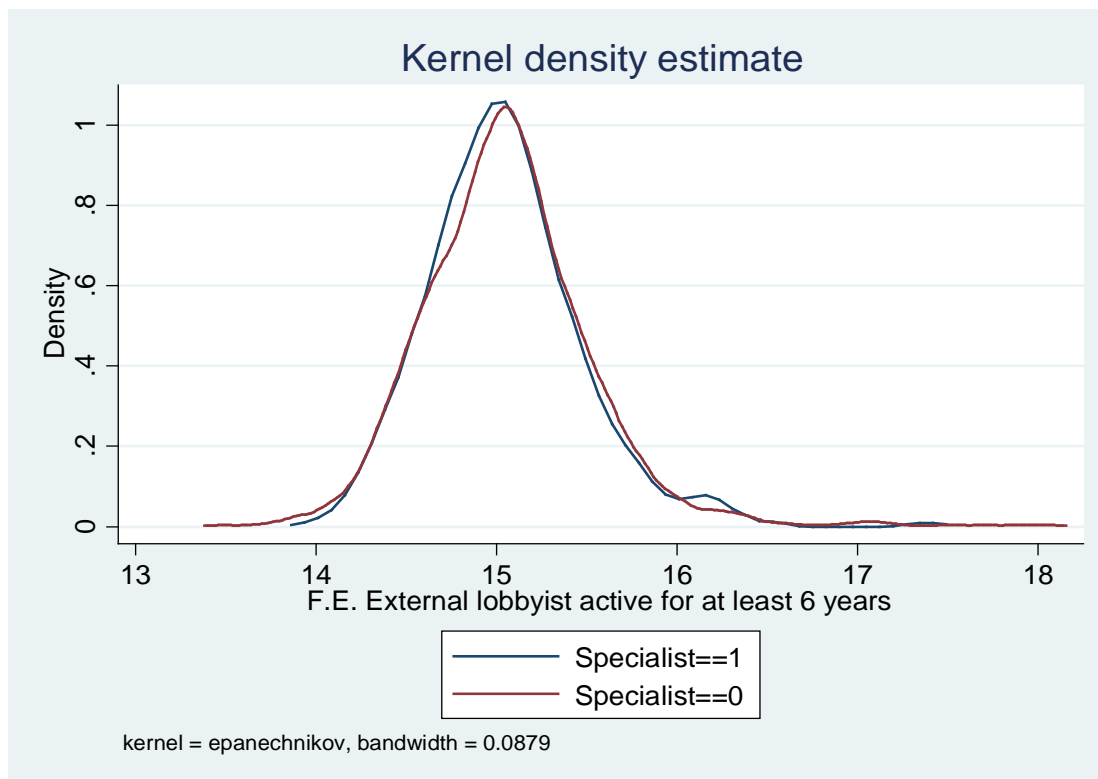
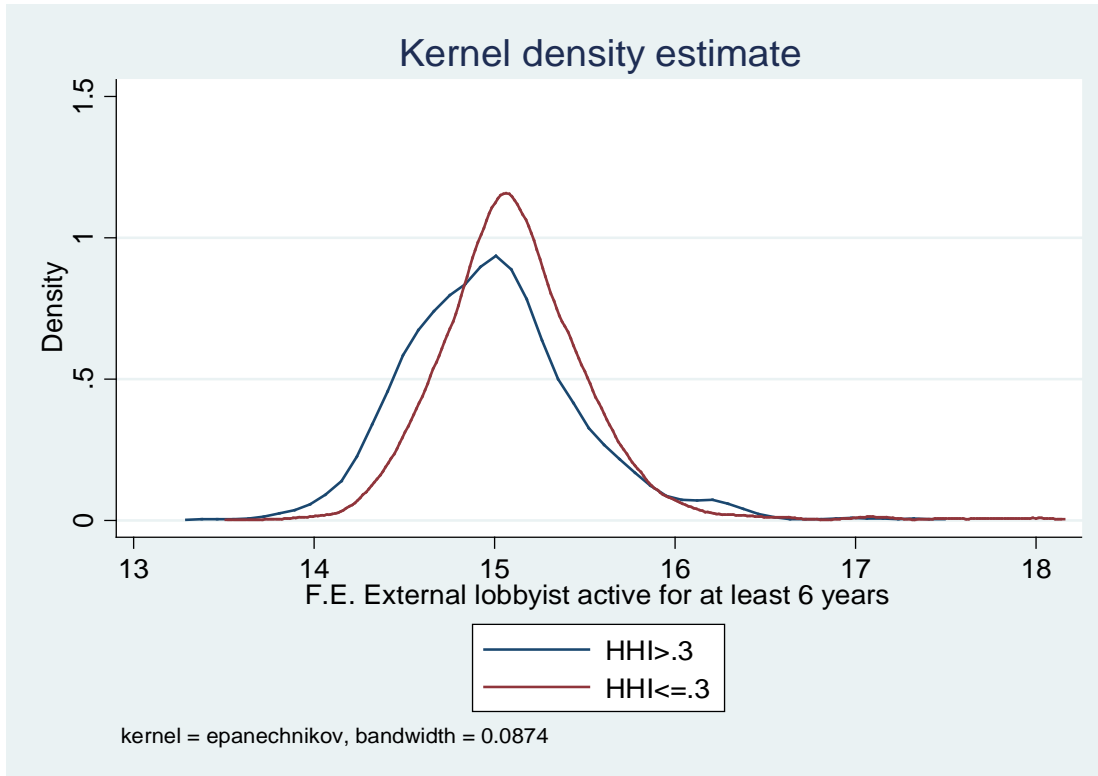
Notes: Unit of observation is a lobbyist-politician pair. For each freshman legislator we include all lobbyists active during his/her first Congress, as previous issue overlap between lobbyists and politicians is not available for first term congressmen (see restriction imposed in Table 7). Sample is restricted to 106 and 107 Congresses and 108 and 109 separately for computational reasons. Standard errors clustered at the lobbyist level in all specifications. * significant at 5%; ** significant at 1%.

Appendix Table A6: Political Cycles and Republican and Democratic Lobbyists

Year	Lobbying Expenses			Number of Lobbyists		
	Republican	Democratic	Gap	Republican	Democratic	Gap
1999	127.84	113.86	13.98	589	530	59
2000	157.64	122.94	34.70	619	556	63
2001	167.53	152.00	15.53	659	614	45
2002	201.22	168.73	32.49	711	646	65
2003	262.22	209.42	52.80	795	722	73
2004	305.84	212.25	93.59	881	766	115
2005	373.71	263.05	110.66	1022	848	174
2006	521.13	293.00	228.13	1110	920	190
2007	449.21	370.07	79.14	1178	1029	149
2008	368.94	404.62	-35.69	1230	1097	133

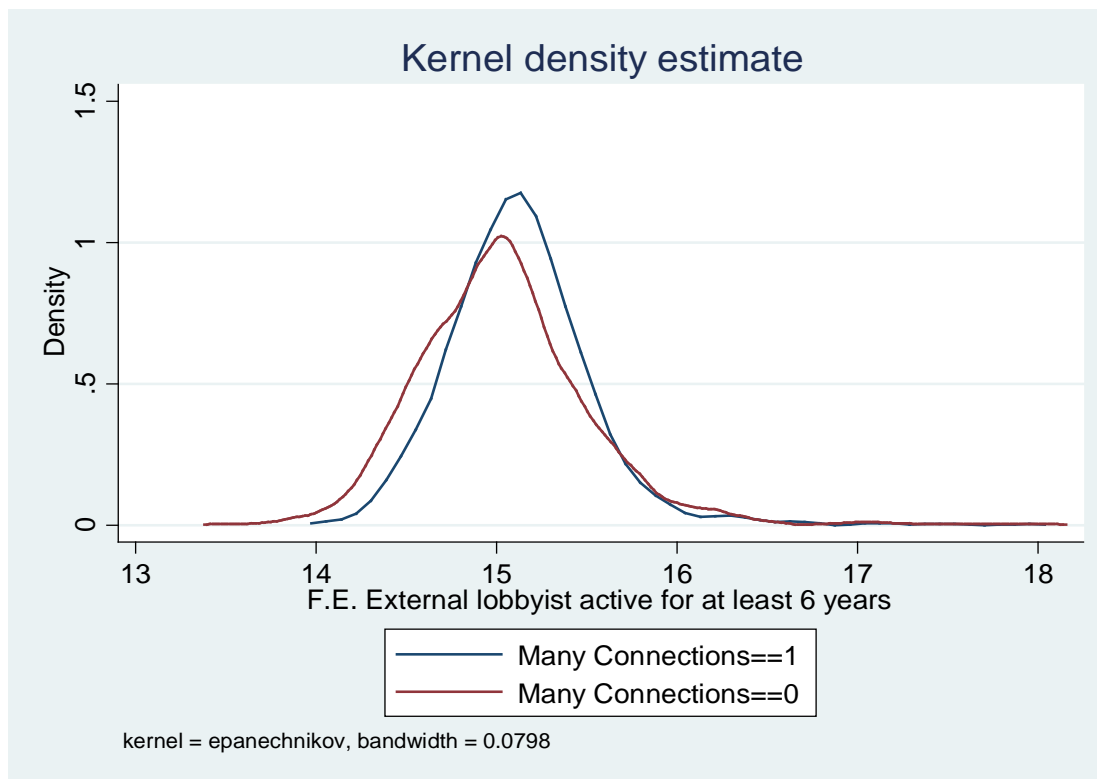
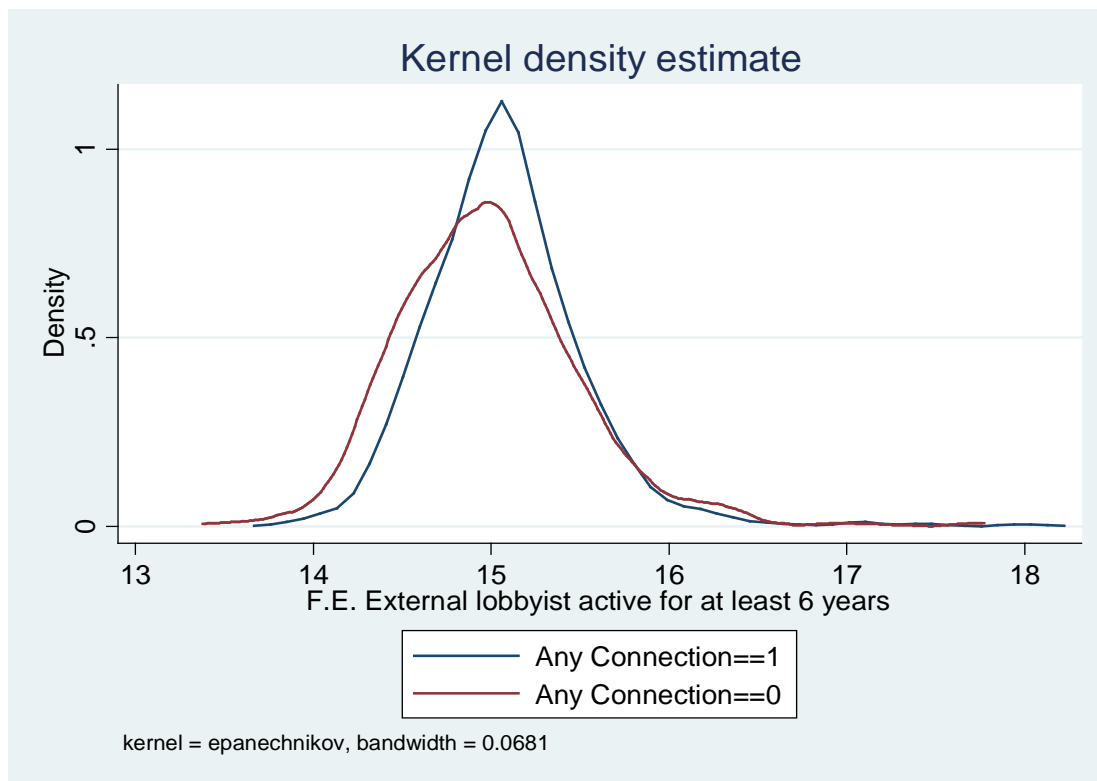
Notes: Lobbying expenses are in millions of dollars.

Figure A1: Distribution of External Lobbyists' Estimated Value Added by Level of Expertise



Note: Lobbyists fixed effects were only computed for external lobbyists that are active in at least 6 out of the 10 sample years. See text for details.

Figure A2: Distribution of External Lobbyists' Estimated Value Added By Level of Connections (through Campaign Contributions) to Politicians



Note: Lobbyists fixed effects were only computed for external lobbyists that are active in at least 6 out of the 10 sample years. See text for details.

Appendix A1: Lobbying Report Issue List

ACC Accounting
ADV Advertising
AER Aerospace
AGR Agriculture
ALC Alcohol & Drug Abuse
ANI Animals
APP Apparel/Clothing Industry/Textiles
ART Arts/Entertainment
AUT Automotive Industry
AVI Aviation/Aircraft/ Airlines
BAN Banking
BNK Bankruptcy
BEV Beverage Industry

BUD Budget/Appropriations
CHM Chemicals/Chemical Industry
CIV Civil Rights/Civil Liberties
CAW Clean Air & Water (Quality)
CDT Commodities (Big Ticket)
COM Communications/ Broadcasting/Radio/TV
CPI Computer Industry
CSP Consumer Issues/Safety/ Protection
CON Constitution
CPT Copyright/Patent/ Trademark
DEF Defense
DOC District of Columbia
DIS Disaster Planning/Emergencies

ECN Economics/Economic Development
EDU Education
ENG Energy/Nuclear
ENV Environmental/Superfund
FAM Family Issues/Abortion/ Adoption
FIR Firearms/Guns/ Ammunition
FIN Financial Inst.s/Investments/Securities
FOO Food Industry (Safety, Labeling, etc.)
FOR Foreign Relations
FUE Fuel/Gas/Oil
GAM Gaming/Gambling/ Casino
GOV Government Issues

HCR Health Issues
HOU Housing
IMM Immigration
IND Indian/Native American Affairs
INS Insurance
LBR Labor Issues/Antitrust/ Workplace
LAW Law Enforcement/Crime/ Criminal Justice
MAN Manufacturing
MAR Marine/Maritime/ Boating/Fisheries
MIA Media (Information/ Publishing)
MED Medical/Disease Research/ Clinical Labs
MMM Medicare/Medicaid
MON Minting/Money/ Gold Standard

NAT Natural Resources
PHA Pharmacy
POS Postal
RRR Railroads
RES Real Estate/Land Use/Conservation
REL Religion
RET Retirement
ROD Roads/Highway
SCI Science/Technology
SMB Small Business
SPO Sports/Athletics
TAX Taxation/Internal Revenue Code
TEC Telecommunications

TOB Tobacco
TOR Torts
TRD Trade (Domestic & Foreign)
TRA Transportation
TOU Travel/Tourism
TRU Trucking/Shipping
URB Urban Development/ Municipalities
UNM Unemployment
UTI Utilities
VET Veterans
WAS Waste (hazard/solid/interstate/nuclear)
WEL Welfare

Appendix A2: Sample Lobbying Report

Clerk of the House of Representatives Legislative Resource Center B-106 Cannon Building Washington, DC 20515 http://lobbyingdisclosure.house.gov	Secretary of the Senate Office of Public Records 232 Hart Building Washington, DC 20510 http://www.senate.gov/lobby
--	---

LOBBYING REPORT

Lobbying Disclosure Act of 1995 (Section 5) - All Filers Are Required to Complete This Page

1. Registrant Name <input checked="" type="checkbox"/> Organization/Lobbying Firm <input type="checkbox"/> Self Employed Individual <u>Gephardt Group, LLC</u>			
2. Address <input type="checkbox"/> Check if different than previously reported Address1 <u>1101 K Street, NW 8th Floor</u> Address2 _____ City <u>Washington</u> State <u>DC</u> Zip Code <u>20005</u> - Country <u>USA</u>			
3. Principal place of business (if different than line 2) City _____ State _____ Zip Code _____ - Country _____			
4a. Contact Name <u>Amanda Armistead</u>	b. Telephone Number <input type="checkbox"/> International Number (202) 728-8771	c. E-mail <u>amandaarmistead@gephardtgroup.com</u>	5. Senate ID# <u>315717-1004583</u>
7. Client Name <input type="checkbox"/> Self <input type="checkbox"/> Check if client is a state or local government or instrumentality <u>Goldman Sachs Co.</u>			6. House ID# <u>392150010</u>

TYPE OF REPORT 8. Year 2008 Q1 (1/1 - 3/31) Q2 (4/1 - 6/30) Q3 (7/1-9/30) Q4 (10/1 - 12/31)

9. Check if this filing amends a previously filed version of this report

10. Check if this is a Termination Report Termination Date _____ 11. No Lobbying Issue Activity

INCOME OR EXPENSES - YOU MUST complete either Line 12 or Line 13

12. Lobbying INCOME relating to lobbying activities for this reporting period was: Less than \$5,000 <input type="checkbox"/> \$5,000 or more <input checked="" type="checkbox"/> \$ <u>70,000.00</u> Provide a good faith estimate, rounded to the nearest \$10,000, of all lobbying related income from the client (including all payments to the registrant by any other entity for lobbying activities on behalf of the client).	13. Organizations EXPENSE relating to lobbying activities for this reporting period were: Less than \$5,000 <input type="checkbox"/> \$5,000 or more <input type="checkbox"/> \$ _____ 14. REPORTING Check box to indicate expense accounting method. See instructions for description of options. <input type="checkbox"/> Method A. Reporting amounts using LDA definitions only <input type="checkbox"/> Method B. Reporting amounts under section 6033(b)(8) of the Internal Revenue Code <input type="checkbox"/> Method C. Reporting amounts under section 162(e) of the Internal Revenue Code
--	---

Signature Filed Electronically **Date** 01/15/2009

Printed Name and Title Amanda Armistead, Executive Assistant

Registrant Gephardt Group, LLC

Client Name Goldman Sachs Co.

LOBBYING ACTIVITY. Select as many codes as necessary to reflect the general issue areas in which the registrant engaged in lobbying on behalf of the client during the reporting period. Using a separate page for each code, provide information as requested. Add additional page(s) as needed.

15. General issue area code (one per page)

16. Specific lobbying issues

TARP

17. House(s) of Congress and Federal agencies Check if None

U.S. HOUSE OF REPRESENTATIVES

18. Name of each individual who acted as a lobbyist in this issue area

First Name	Last Name	Suffix	Covered Official Position (if applicable)	New
Thomas	O'Donnell			<input type="checkbox"/>
Richard	Gephardt			<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

19. Interest of each foreign entity in the specific issues listed on line 16 above Check if None

Printed Name and Title Amanda Armistead, Executive Assistant

Appendix A3: Chamber, Congressional Committee, Lobbying Issues

House, Agriculture: AGR, FOO, TOB, ANI, CDT

House, Appropriations: BUD

House, Armed Services (103rd, 109-110th): AER, DEF, HOM, INT

House, National Security (104th - 108th): AER, DEF, HOM, INT

House, Banking, Finance and Urban Affairs (103rd): HOU, FIN, INS, RES, MON, BAN, BNK, URB, GAM

House, Banking and Financial Services (104th - 106th): HOU, FIN, INS, RES, TUE, BAN, BNK, URB, GAM

House, Financial Services (106th - 110th): HOU, FIN, INS, RES, WED, BAN, BNK, URB, GAM

House, Budget: BUD

House, District of Columbia (103rd): DOC

House, Education and Labor (103rd, 110th): EDU, FAM, LBR, RET, ALC, WEL, REL, ART

House, Economic and Educational Opportunities (104th): EDU, FAM, LBR, RET, ALC, WEL, REL, ART

House, Education and the Workplace (105th - 109th): EDU, FAM, LBR, RET, ALC, WEL, REL, ART

House, Energy and Commerce (103rd, 107th - 110th): ACC, CSP, ENG, TEC, FOO, FUE, ALC, MMM, MED, ENV, SPO, TRD, TOU, HCR, CAW, WAS, UTI, PHA, MAN, ADV, MIA, CPI, COM, CDT, CHM, BEV, AUT, APP

House, Commerce (104th - 106th): ACC, CSP, ENG, TEC, FOO, FUE, ALC, MMM, MED, ENV, SPO, TRD, TOU, HCR, CAW, WAS, UTI, PHA, MAN, ADV, MIA, CPI, COM, CDT, CHM, BEV, AUT, APP

House, Foreign Affairs (103rd, 110th): FOR, ECN, REL

House, International Relations (104th - 109th): FOR, ECN, REL

House, Government Operations (103rd): GOV, POS, DOC

House, Government Reform and Oversight (104th - 109th): GOV, POS, DOC

House, Oversight and Government Reform (110th): GOV, POS, DOC

House, House Administration (103rd, 109-110th): GOV

House, House Oversight (104th - 108th): GOV

House, Judiciary: LAW, CON, CPT, IMM, CIV, TOR, FIR

House, Merchant Marine and Fisheries (103rd): MAR

House, Natural Resources (103rd, 110th): MAR, NAT, IND, RES, GAM, CDT

House, Resources (104th - 109th): APR, NAT, IND, RES, GAM, CDT

House, Post Office and Civil Service (103rd): POS

House, Public Works and Transportation (103rd): MAR, RRR, ROD, TRA, TRU, DIS

House, Transportation and Infrastructure (104th - 110th): APR, RRR, ROD, TRA, TRU, DIS

House, Rules, GOV

House, Science, Space, and Technology (103rd): ENG, SCI, AER, AVI, CPI

House, Science (104th - 109th): ENG, SCI, AER, AVI, CPI

House, Science and Technology (110th): ENG, SCI, AER, AVI, CPI

House, Small Business: SMB

House, Standards of Official Conduct: GOV

House, Veterans Affairs: VET

House, Ways and Means: UNM, TRD, TAX, WEL, RET

House, Intelligence (Select): INT, HOM

House, Homeland Security (Select 107th and 108th; Standing, 109th-110th): HOM

House, Energy Independence and Global Warming (Select, 110th): ENG, FUE, CDT, CAW, ENV

House, Investigate the Voting Irregularities of August 2, 2007 (Select, 110th): GOV

Senate, Agriculture, Nutrition, and Forestry: AGR, FOO, TOB, ANI, CDT

Senate, Appropriations: BUD

Senate, Armed Services: AER, DEF, HOM, INT

Senate, Banking, Housing, and Urban Affairs: HOU, URB, INS, RES, GAM, BAN, CDT, FIN, TRD, ECN, MON, BNK, ACC
Senate, Budget: BUD
Senate, Commerce, Science, and Transportation: AVI, ADV, AER, APP, AUT, COM, CPI, CSP, MAN, MAR, MIA, RRR, ROD, SCI, TEC, SPO, PHA, TRD, TRA, TOU, TRU, CHM, BEV
Senate, Energy and Natural Resources: ENG, NAT, FUE, WAS, CDT, UTI
Senate, Environment and Public Works: ENV, DIS, CAW, ROD, ECN, WAS
Senate, Finance: UNM, TRD, TAX, WEL, RET, MMM
Senate, Foreign Relations: FOR, ECN, REL
Senate, Governmental Affairs (103rd to 108th): GOV, HOM, INT, POS
Senate, Homeland Security and Governmental Affairs (109th): GOV, HOM, INT, POS
Senate, Judiciary: LAW, CON, CPT, IMM, CIV, TOR, FIR
Senate, Labor and Human Resources (103rd to 106th): EDU, FAM, LBR, RET, ALC, WEL, REL, ART, HCR, MED
Senate, Health, Education, Labor, and Pensions (107th to 109th): EDU, FAM, LBR, RET, ALC, WEL, REL, ART, HCR, MED
Senate, Rules and Administration: GOV
Senate, Small Business (103rd to 107th): SMB
Senate, Small Business and Entrepreneurship (108th and 109th): SMB
Senate, Veterans Affairs: VET
Senate, Aging (Special): RET, HCR
Senate, Intelligence (Select): INT, HOM
Senate, Ethics (Select): GOV
Senate, Indian Affairs (Select): IND, GAM
Joint, Library: GOV
Joint, Printing: GOV
Joint, Taxation: TAX
Joint, Economic: ECN