Web Appendix to Political Cleavages within Industry: Firm level lobbying for Trade Liberalization

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Abstract

This appendix contains supplemental results. First, Section 1 shows that we observe high within-industry variance even when different levels of aggregations are used for defining the industry categories. Sections 2, 3 and 4 contain technical details of the formal model. Section 5 and 6 include a set of robustness check results in which we examine the effects of product differentiation and firm-level productivity on lobbying. Section 7 include supporting materials for bill-level analysis including the results from LDA (Latent Dirichlet allocation) topic models. I then discuss some details for the LASSO analysis used for the results in the main text.

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1 Between- and Within-industry Variation in Tariffs

Table 1 decomposes the total variance in applied tariffs of the U.S. into within and between industry components such that $T_t = W_t + B_t$. I calculate each component by $T_t = \frac{1}{N_t} \sum_j \sum_{i \in j} (\tau_{it} - \overline{\tau}_t)^2$, $W_t = \frac{1}{N_t} \sum_j \sum_{i \in j} (\tau_{it} - \overline{\tau}_{j,t})^2$, and $B_t = \frac{1}{N_t} \sum_j N_{j,t} (\overline{\tau}_{j,t} - \overline{\tau}_t)^2$ where Harmonized System 8 digits level products (HS8) are indexed by i and time by t; $j \in \{\text{HS2}, \text{HS4}, \text{HS6}\}$ denotes the industry category used for the analysis; N_t and $N_{j,t}$ denote the overall number of products and the products within each industry j; τ_{it} , $\overline{\tau}_{j,t}$ and $\overline{\tau}_t$ are the applied tariff rates, the average tariff rates within each industry, and the overall average of tariff rates across all products, respectively.

***	HS	32	HS	54	HS	56	Total
Year	Between	Within	Between	Within	Between	Within	Variance
1989	17.77	30.11	27.00	20.89	33.23	14.66	47.88
1990	17.52	29.49	26.58	20.43	32.69	14.32	47.01
1991	17.32	30.35	26.24	21.43	32.53	15.14	47.67
1992	17.18	30.32	26.03	21.46	32.35	15.14	47.49
1993	17.29	30.40	26.03	21.65	32.41	15.27	47.69
1995	24.07	70.82	37.30	57.59	46.19	48.70	94.89
1996	44.41	174.50	58.74	160.17	66.90	152.01	218.91
1997	42.05	164.05	59.03	147.08	67.53	138.57	206.10
1998	39.65	134.14	50.09	123.70	56.65	117.14	173.79
1999	39.28	131.72	52.19	118.81	60.78	110.22	171.00
2000	37.86	136.59	51.17	123.28	59.92	114.53	174.45
2001	34.76	129.76	47.75	116.77	55.49	109.03	164.52
2002	33.89	120.96	45.74	109.10	52.06	102.78	154.85
2003	35.35	130.83	46.97	119.20	53.73	112.44	166.17
2004	34.97	128.64	46.77	116.84	53.69	109.91	163.61
2005	36.68	130.31	48.59	118.40	55.54	111.44	166.98
2006	36.32	127.91	48.07	116.15	55.21	109.02	164.23
2007	37.96	124.51	57.67	104.80	65.78	96.70	162.47
2008	34.91	135.15	56.67	113.40	65.35	104.72	170.06

Table 1: Variance Decomposition of the Applied MFN Tariff Rates of the U.S.

Note that the product-by-product negotiation approach at the Uruguay Round resulted in a sharp increase in the variation in tariffs across products within industries. This is due to the increase in the number of tariff lines and the inclusion of all agricultural and textile products in this round's negotiation.¹

Table 2 compares this pattern with the changes in India's applied tariff rates between 1992 and 2008. It shows that both the mean tariff rate and the total variation in applied tariffs have decreased over time in India. I also shows that between-industry variation is larger unlike the pattern that we observe in the U.S. The difference can be explained by examining how firms' interests were reflected in the process of trade liberalization. Unlike the U.S., whereby firms' heterogeneous interests are key to understand within industry variation, India went through trade liberalization that is imposed by the IMF. Specifically, as Topalova and Khandelwal (2011) show "the reform was rapid, comprehensive, and externally imposed, it is reasonable to assume that the

¹Although the product-by-product approach has always been important, negotiations in the previous round, such as the Kennedy Round (1962–1967) and Tokyo Round (1973–1979), also relied on a formula-based approach in which countries agreed to reduce tariff rates more or less uniformly across products.

changes in the level of protectionism were unrelated to firm- and industry-level productivity." This illustrates the importance of firm's heterogeneous interests in understanding trade policy-making.

	1992	2008
Mean Applied Tariffs	37.72	12.86
Number of Tariff Lines	2,318	11,831
Between Industry Variance	546.46	228.83
Within Industry Variance	34.05	35.40
Total Variance	580.51	264.23

Table 2: Descriptive Statistics Summarizing India's Tariffs

2 Demand and Price under Oligopoly

A representative consumer maximizes equation (1) in the paper subject to the standard budget constraint E. The utility function captures the degree of product differentiation (i.e., consumer's "love of variety") with the parameter σ . For example, supposed that there are two products. Product differentiation (i.e., low σ) implies that a representative consumer gets higher utility by consuming one unit of each product than by consuming two units of one product with no consumption of the second product. The difference in the utility even when the same total units are consumed captures the degree of product differentiation. To ensure a positive demand, I make a technical assumption that α_D and α_F are sufficiently high. In particular, I assume the following.

Assumption 1 (Positive Demand)

$$\alpha_D + \alpha_F > c_1 + c_3 + 2\tau$$
 and $\alpha_D + \alpha_F > c_2 + c_4 - 2\tau$.

We obtain the following inverse demand function for product i.

$$p_i(q_i, q_j) = \alpha_s - q_i - \sigma\left(\sum_{j \neq i} q_j\right). \tag{1}$$

Note that firm 1 and firm 3 face the same tariff τ in their respective exporting markets in this model (see equation (2)). This reflects the importance of the norm of reciprocity in trade negotiation (Bagwell and Staiger, 1999). It is also consistent with the "principal supplier rule" that underlies the Uruguay Round negotiation in which advanced economies simultaneously lower trade barriers reciprocally when they exchange differentiated products with each other within an industry (Gowa and Kim, 2005). The assumption of reciprocity itself does not necessarily imply trade liberalization, however. The intensity of the import-competing firm's interest is also captured by a higher import tariff, while the productive domestic firm will lose a significant portion of its domestic revenue if products are substitutable. That is, productive firms still need to evaluate the trade-off between the decrease in domestic revenue and the increase in foreign market revenue when deciding whether to lobby for liberalization, and this tradeoff will vary with the level of product

differentiation. In fact, the result in the paper shows that even with the norm of reciprocity, high tariffs are optimal with sufficiently high levels of substitutability.

• Taking first order conditions of firms' problem in equation (2) in the paper gives

$$q_{1} = \frac{1}{2} (\alpha_{D} - \sigma q_{2} - \sigma q_{3} - c_{1}) \qquad q_{1}^{*} = \frac{1}{2} (\alpha_{F} - \sigma q_{3}^{*} - \sigma q_{4}^{*} - c_{1} - \tau)$$

$$q_{2} = \frac{1}{2} (\alpha_{D} - \sigma q_{1} - \sigma q_{3} - c_{2}) \qquad q_{3}^{*} = \frac{1}{2} (\alpha_{F} - \sigma q_{1}^{*} - \sigma q_{4}^{*} - c_{3})$$

$$q_{3} = \frac{1}{2} (\alpha_{D} - \sigma q_{1} - \sigma q_{2} - c_{3} - \tau) \qquad q_{4}^{*} = \frac{1}{2} (\alpha_{F} - \sigma q_{1}^{*} - \sigma q_{3}^{*} - c_{4}) \qquad (2)$$

 Solving the above systems of equations gives optimal quantity of each product in respective market.

$$q_{1} = \frac{\alpha_{D}(2-\sigma) + \sigma(\tau + c_{2} + c_{3} - c_{1}) - 2c_{1}}{2(2-\sigma)(1+\sigma)}$$

$$q_{2} = \frac{\alpha_{D}(2-\sigma) + \sigma(\tau + c_{1} + c_{3} - c_{2}) - 2c_{2}}{2(2-\sigma)(1+\sigma)}$$

$$q_{3} = \frac{\alpha_{D}(2-\sigma) + \sigma(c_{1} + c_{2} - c_{3} - \tau) - 2(c_{3} + \tau)}{2(2-\sigma)(1+\sigma)}$$

$$q_{1}^{*} = \frac{\alpha_{F}(2-\sigma) + \sigma(c_{3} + c_{4} - c_{1} - \tau) - 2(c_{1} + \tau)}{2(2-\sigma)(1+\sigma)}$$

$$q_{3}^{*} = \frac{\alpha_{F}(2-\sigma) + \sigma(\tau + c_{4} + c_{1} - c_{3}) - 2c_{3}}{2(2-\sigma)(1+\sigma)}$$

$$q_{4}^{*} = \frac{\alpha_{F}(2-\sigma) + \sigma(\tau + c_{1} + c_{3} - c_{4}) - 2c_{4}}{2(2-\sigma)(1+\sigma)}$$

$$(3)$$

• Finally, combining equations (1) and (3), we have

$$p_{1} = \frac{\alpha_{D}(\sigma - 2) + c_{1}(2\sigma^{2} - \sigma - 2) - \sigma(c_{2} + c_{3} + \tau)}{2(2 - \sigma)(1 + \sigma)}$$

$$p_{2} = \frac{\alpha_{D}(\sigma - 2) + c_{2}(2\sigma^{2} - \sigma - 2) - \sigma(c_{1} + c_{3} + \tau)}{2(2 - \sigma)(1 + \sigma)}$$

$$p_{3} = \frac{\alpha_{D}(2 - \sigma) + c_{3}(2 + \sigma - 2\sigma^{2}) + \sigma(c_{1} + c_{2} + \tau - 2\sigma\tau) + 2\tau}{2(2 - \sigma)(1 + \sigma)}$$

$$p_{1}^{*} = \frac{\alpha_{F}(2 - \sigma) + c_{1}(2 + \sigma - 2\sigma^{2}) + \sigma(c_{3} + c_{4} + \tau - 2\sigma\tau) + 2\tau}{2(2 - \sigma)(1 + \sigma)}$$

$$p_{3}^{*} = \frac{\alpha_{F}(\sigma - 2) + c_{3}(2\sigma^{2} - \sigma - 2) - \sigma(c_{1} + c_{4} + \tau)}{2(2 - \sigma)(1 + \sigma)}$$

$$p_{4}^{*} = \frac{\alpha_{F}(\sigma - 2) + c_{4}(2\sigma^{2} - \sigma - 2) - \sigma(c_{1} + c_{3} + \tau)}{2(2 - \sigma)(1 + \sigma)}$$

$$(4)$$

3 Characterization of Truthful Contribution

To characterize the contribution schedule, I follow the literature to assume that contribution schedules are truthful everywhere (Grossman and Helpman, 1994; Bombardini, 2008). See equation (10) in Grossman and Helpman (1994) (pg., 840). This is stated as Assumption 1 in the main text. Formally, $L_i(\tau, V_i) = \max[0, \Pi_i(\tau) - V_i]$, where V_i is an arbitrary benchmark level of welfare for firm i.

Note that Assumption 1 is stronger than the local differentiability at the equilibrium point (Bernheim and Whinston, 1986). I focus on the profit evaluated at the optimal tariff rate: $\Pi_i(\tau_o)$. Note that this quantity is positively correlated with the truthful contribution given a fixed level of B_i , which does not depend on τ_o . Given this the truthful contribution schedules I derive the contribution schedules for productive and unproductive domestic firms in equilibrium. By symmetry the optimal contribution schooled by foreign productive firms will be same as that by productive domestic firm although the role of α_D and α_F will change.

3.1 Productive Domestic Firm

$$\frac{1}{(4(-2+\sigma)^2(1+\sigma)^2)} \left[\left(A_0 + \frac{(2+\sigma)(A_1 + 4A_2\sigma - A_3\sigma^2 + 4aA_4\sigma^3)}{(2(8+\sigma(8+5\sigma)) + a(-20+\sigma(-20+\sigma(21+10\sigma)))} \right)^2 + \left(B_0 - \sigma \left\{ c2 + c3 + \frac{B_1 + 4B_2\sigma - B_3\sigma^2 + B_4\sigma^3}{2(8+\sigma(8+5\sigma)) + a(-20+\sigma(-20+\sigma(21+10\sigma)))} \right\} \right)^2 \right]$$

$$A_{0} = \alpha_{F}(-2+\sigma) - (c3+c4)\sigma + c1(2+\sigma)$$

$$A_{1} = -8(1+a)c1 + 4(-2+5a)c3 - 4(-2+a)\alpha_{D} + 8(1+a)\alpha_{F}$$

$$A_{2} = 2c2 + c4 + a(-2c1+6c3+c4-3\alpha_{D}) - 2\alpha_{D} - \alpha_{F}$$

$$A_{3} = (2+7a)c1 - 2(c2-c3+\alpha_{D}) + a(c2+15c3-2c4-15\alpha_{D}+2\alpha_{F})$$

$$A_{4} = c1+2c2-2c3-\alpha_{D}$$

$$B_{0} = \alpha_{D}(-2+\sigma) + c1(2+\sigma)$$

$$B_{1} = -8(1+a)c1 + 4(-2+5a)c3 - 4(-2+a)\alpha_{D} + 8(1+a)\alpha_{F}$$

$$B_{2} = 2c2+c4+a(-2c1+6c3+c4-3\alpha_{D}) - 2\alpha_{D} - \alpha_{F}$$

$$B_{3} = (2+7a)c1-2(c2-c3+\alpha_{D}) + a(c2+15c3-2c4-15\alpha_{D}+2\alpha_{F})$$

$$B_{4} = 4a(c1+2c2-2c3-\alpha_{D})$$

3.2 Unproductive Domestic Firm

$$\left(C_0 + \frac{\left(\sigma(-8(c3 + \alpha_D + \alpha_F) - 2\sigma C_1 - C_2 + aC_3)\right)}{\left(2(8 + \sigma(8 + 5\sigma)) + a(-20 + \sigma(-20 + \sigma(21 + 10\sigma)))\right)}\right)^2 / \left(4(-2 + \sigma)^2(1 + \sigma)^2\right)$$

$$C_{0} = \alpha_{D}(-2+\sigma) + c2(2+\sigma)$$

$$C_{1} = (2c4 - 2\alpha_{F} + \alpha_{D}(-4+\sigma) + 4c3(2+\sigma) + c2(4+\sigma))$$

$$C_{2} = 2c1(1+\sigma)(4(1+\sigma) + 7a(-2+\sigma^{2}))$$

$$C_{3} = (-8\alpha_{F} - 4(c3+c4)\sigma + \alpha_{D}(-2+\sigma)^{2}(1+4\sigma) + \sigma^{2}(c2-8c2\sigma - 2(c4-\alpha_{F}+c3(3+\sigma))))$$

4 Intra-industry Trade with Differentiation

I show that increased product differentiation implies a high degree of intra-industry trade given the fixed level of τ . This will lay an theoretical foundation for understanding the source of gains from trade independent of comparative advantage or technological difference, which are the conceptual base for existing political economy models. Specifically, high intra-industry trade with product differentiation will shed light on who the potential winners and losers from trade are. Intra-industry trade is defined in terms of the quantity of goods that productive firms export to each market, i.e., a foreign firm's export to the domestic market (q_3) + domestic firm's export to the foreign market (q_1^*) .

Proposition 1 shows that consumers' love of variety results in a high degree of intra-industry trade.² It also highlights the fact that productive exporting firms will gain greatly from trade liberalization, particularly when products in an industry are not substitutable with each other. In this respect, I argue that the incentives of exporting firms to lobby will be stronger than those of their import-competing counterparts when products are sufficiently differentiated. Although any firm will benefit by having protection at home and open markets abroad, highly productive exporting firms find the latter more attractive than the former due to increasing returns-to-scale. In the following section, I examine the political interaction between firms and government.

DEFINITION 1 (INTRA-INDUSTRY TRADE)

$$IIT(\cdot) := q_3 + q_1^* \tag{5}$$

PROPOSITION 1 (INTRA-INDUSTRY TRADE) Suppose products are sufficiently differentiated such that $0 \le \sigma < \frac{1}{2}$. Then, intra-industry trade increases as the degree of product differentiation increases.

$$\left. \frac{\partial IIT}{\partial \sigma} \right|_{\sigma < \frac{1}{2}} < 0 \tag{6}$$

Proof Intra-industry trade in physical quantity is

$$IIT(\cdot) = q_3 + q_1^*$$

$$= \frac{2(c_1 + c_3 + 2\tau) + (\sigma - 2)(\alpha_D + \alpha_F) - \sigma(c_2 + c_4 - 2\tau)}{2(\sigma - 2)(\sigma + 1)}$$

²Note that the new trade theory and new-new trade theory emphasize this mechanism through the Dixit-Stiglitz CES utility function (Krugman, 1980).

Suppose $0 \le \sigma_1 < \sigma_2 < \frac{1}{2}$, and let $\chi_1 = (\sigma_1 - 2)(\sigma_1 + 1)$ and $\chi_2 = (\sigma_2 - 2)(\sigma_2 + 1)$. First, we show that $\chi_2 - \chi_1 < 0$.

$$\chi_{2} - \chi_{1} = (\sigma_{2} - 2)(\sigma_{2} + 1) - (\sigma_{1} - 2)(\sigma_{1} + 1)
= (\sigma_{2} - \sigma_{1})(\sigma_{2} + \sigma_{1}) - (\sigma_{2} - \sigma_{1})
= \underbrace{(\sigma_{2} - \sigma_{1})}_{>0} \underbrace{(\sigma_{1} + \sigma_{2} - 1)}_{<0} < 0$$
(7)

Second, we show $\sigma_1 \chi_2 - \sigma_2 \chi_1 > 0$.

$$\sigma_1 \chi_2 - \sigma_2 \chi_1 = \sigma_1 (\sigma_2^2 - \sigma_2 - 2) - \sigma_2 (\sigma_1^2 - \sigma_1 - 2)$$

$$= \sigma_1 \sigma_2 (\sigma_2 - \sigma_1) + 2(\sigma_2 - \sigma_1) > 0$$
(8)

Finally, it is sufficient to show that $IIT(\cdot)$ is monotonically decreasing for any σ_1 and σ_2 such that $0 \le \sigma_1 < \sigma_2 < \frac{1}{2}$.

$$= \frac{IIT(\sigma_{1}) - IIT(\sigma_{2})}{2(c_{1} + c_{3} + 2\tau) + (\sigma_{1} - 2)(\alpha_{D} + \alpha_{F}) - \sigma_{1}(c_{2} + c_{4} - 2\tau)}{2(\sigma_{1} - 2)(\sigma_{1} + 1)} - \frac{2(c_{1} + c_{3} + 2\tau) + (\sigma_{2} - 2)(\alpha_{D} + \alpha_{F}) - \sigma_{2}(c_{2} + c_{4} - 2\tau)}{2(\sigma_{2} - 2)(\sigma_{2} + 1)}$$

$$= \frac{(\chi_{2} - \chi_{1})(c_{1} + c_{3} + 2\tau - \alpha_{D} - \alpha_{F})}{\chi_{1}\chi_{2}} + \frac{(\sigma_{1}\chi_{2} - \sigma_{2}\chi_{1})(\alpha_{D} + \alpha_{F} - c_{2} - c_{4} + 2\tau)}{2\chi_{1}\chi_{2}}$$

$$> 0$$

$$(9)$$

, where the last inequality follows from equations (7), (8), and Assumption 1. This proves the result.

Note that a more general result can be achieved with a stronger assumption. It can be shown that $\frac{\partial IIT}{\partial \sigma} < 0$ for all $0 < \sigma < 1$ if $\{3(\alpha_c + \alpha_F) - (2c_1 + c_2 + 2c_3 + c_4)\}/2 < \tau < (c_2 - c_1 + c_4 - c_3)/4$ and $\alpha_D + \alpha_F > c_2 + c_4 - 2\tau$.

Robustness Checks on Firm-level Lobbying Analysis D

				Rem	Removing Outliers			
	Ĭ	Top/Bottom 19	1% Productivity	λ	Top/Bottom 5	Top/Bottom 5% Productivity	Top/Bottom 1%	% Differentiated
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
Differentiated x Productivity	0.343^{***} (0.071)	0.334^{***} (0.074)	0.335*** (0.071)	0.307***	0.282^{***} (0.089)	0.278*** (0.090)	0.484***	0.432***
Productivity	0.990^{***} (0.181)	0.571^{***} (0.099)	0.939*** (0.179)	1.023*** (0.175)	0.755** (0.296)	0.415^{***} (0.120)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.681^{***} (0.133)
Productivity squared	0.082^{***} (0.030)		0.079^{***} (0.030)	0.115^{***} (0.029)	0.066 (0.053)		0.099***	
Differentiated	0.972^{***} (0.211)	0.942^{***} (0.215)	0.945^{***} (0.210)	0.828*** (0.205)	0.810^{***} (0.256)	0.796*** (0.258)	$\begin{array}{ccc} 1.470^{***} \\ (0.270) \end{array}$	1.337^{***} (0.272)
Capital expenditure	0.364^{***} (0.058)	0.380^{***} (0.058)	0.339*** (0.056)	0.368*** (0.053)	0.433^{***} (0.063)	0.439^{***} (0.063)	$\begin{array}{c} 0.354^{***} \\ (0.059) \end{array}$	0.374^{***} (0.059)
Property, plant	0.733^{***} (0.056)	0.719^{***} (0.056)	0.750^{***} (0.055)	0.706*** (0.051)	0.703^{***} (0.061)	0.699^{***} (0.061)	$\begin{array}{c} 0.744^{***} \\ (0.057) \end{array}$	0.725^{***} (0.057)
Constant	-4.632^{***} (0.399)	-4.982^{***} (0.383)	-4.740^{***} (0.380)	-6.043*** (0.323)	-5.166^{***} (0.536)	-5.532^{***} (0.453)	$^{-}$ -4.025*** $^{-}$ (0.447)	-4.553^{***} (0.423)
Year Fixed Effects Industry Fixed Effects Observations Log Likelihood Akaike Inf. Crit.	Yes Yes 28,208 -4,057.431 8,164.863	Yes Yes 28,208 -4,061.100 8,170.201	No Yes 28,208 -4,069.583 8,159.167	No No 28,208 -4,111.783 8,237.566	Yes Yes 26,059 -3,670.694 7,391.388	Yes Yes 26,059 -3,671.477 7,390.953	Yes Yes 27,538 -3,935.377 7,920.754 *p<0.1: **p>	Yes Yes Yes Yes 27,538 27,538 27,538 27,935.377 $-3,940.550$ * * * * * * * *

The last two columns display results based on firms for which product differentiation is below and above 1% and 99%. Removing known that the measures for product differentiation and firm productivity are hightly skewed. Thus, we examine the robustness the outliers do not change the result both substantively and statistically. The table also shows that removing the non-linear term for producvitiy does not change the results as shown from models (2),(6) and (8). Finally, models (3) and (4) show that Table 3: Robustness Checks: This table represents a set of robustness check results for Table 3 in the main text. It is well of the results by removing outliers on both dimensions. The first 4 columns present results with firms productivity below 1% and above 99% are removed. The following two columns focus on firms productivity level is betwen 5% and 95% of the distribution. removing year and industry fixed effects respectively does not change the results.

6 Heckman Selection Model

	Dep	endent variable:
	Lobbied	Amount of Lobbying (in Million \$)
Differentiated x Productivity	0.160*** (0.040)	0.740*** (0.235)
Productivity	$0.580^{***} (0.085)$	2.830*** (0.560)
Productivity squared	0.055*** (0.011)	0.289*** (0.067)
Differentiated	0.401*** (0.116)	1.128* (0.676)
Mutinational	0.206*** (0.061)	$1.270^{***} $ (0.325)
Capital expenditure	$0.036 \\ (0.035)$	-0.013 (0.188)
Property, plant	0.194*** (0.035)	$1.474^{***} \\ (0.223)$
Cost of goods sold	$0.277^{***} (0.024)$	1.442*** (0.196)
Market value	0.089*** (0.018)	$0.765^{***} $ (0.105)
Constant	-3.117^{***} (0.251)	$-27.492^{***} \\ (2.621)$
Observations Adjusted R^2		22,376 0.457 1.184
$\frac{\text{Inverse Mills Ratio}}{Note:}$	*p<0.	180*** (0.716) 1; **p<0.05; ***p<0.01

Table 4: Results from Heckman Selection (Type-II Tobit) Model: This table presents a two-stage Type-II Tobit model. In the first stage (first column), a probit regression of an indicator of lobbying activity on the firm level covariates are run. In the second stage, a regression of lobbying amount (in million \$) is run on the firm level covariates. The following inverse-mills ratio from the first stage is included to account for the bias due to selection: $\phi\left(X'_{ijtk}\hat{\beta}_k\right)/\left(1-\Phi\left(X'_{ijtk}\hat{\beta}_k\right)\right)$. In both first and second stages, the estimates on the interaction between productivity and product differentiation (first row) is found to be positive and statistically significant. Note that Multinational indicates the presence of foreign sales. Each firm trading in the U.S. stock market files FORM 10-K pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. In this form, firms report their geographic sales data. I calculated the U.S. sales share based on the most recent data stored in Wharton Research Data Services (WRDS) UNIX secure server. The segment history database is separated into multiple sub-datasets. In order to identify actual geographic sales share, one needs to carefully merge SEG-ANNFUND and SEG-GEO datasets in Compustat.

7 Supporting Materials for Bill-level Analysis

7.1 List of Trade Bills

106						
106	Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
106			0		Democrat	
106	106	HCONRES262	0	Jennifer Dunn	Republican	
106	106	S743	1	Ernest Hollings	Democrat	SC
106	106		1			DE
106			0			
106			-			
106			-			
106			-			
106			-	Craig Thomas		
106						
106						
106						
106			-			
106			-			
106			-			
106						
106			-			
106						
106			-			
106 SCONRES58 0 Ron Wyden Democrat OR 106 HRES224 0 Thomas Ewing Republican IL 106 SRES101 0 Peter Fitzgerald Republican IL 106 HR3393 0 Sander Levin Democrat MI 106 HR1993 0 Donald Manzullo Democrat WI 106 HR884 1 Richard Gephardt Democrat MO 106 HS85 0 John Ashcroft Republican ID 106 S125 0 John Ashcroft Republican TX 106 S120 0 William Roth Republican TX 106 S120 0 Olympia Snowe Republican ME 106 S120 0 Olympia Snowe Republican ME 106 HR450 0 David Camp Republican ME 106 HR350 0 David Camp Repub						
106						
106			-			
106			0		Republican	
106		SRES101		Peter Fitzgerald	Republican	
106 HR1993 0 Donald Manzullo Republican IL 106 HR884 1 Richard Gephardt Democrat MO 106 S3216 0 Larry Craig Republican ID 106 S185 0 John Ashcroft Republican MO 106 S112 1 Phil Gramm Republican DE 106 S1254 0 William Roth Republican DE 106 S120 0 Olympia Snowe Republican ME 106 S120 0 Olympia Snowe Republican DE 106 S120 0 Olympia Snowe Republican DE 106 S120 0 Olympia Snowe Republican ME 106 HR450 0 David Camp Republican ME 106 HR326 0 Bill Archer Republican MI 106 HR817 1 Thomas Ewing Republican<	106		0	Sander Levin	Democrat	
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106 S261 0 Arlen Specter Republican PA						
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	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
106	HR4662	0	Samuel Johnson	Republican	TX
106	S2466	1	T. Gorton	Republican	WA
106	S658	0	Phil Gramm	Republican	TX
106	S1746	0	Daniel Moynihan	Democrat	NY
106	HR1491	0	Robert Matsui	Democrat	CA
106	S1871	0	Max Baucus	Democrat	MT
106	S1387	1	William Roth	Republican	DE
106	HR984	1	Philip Crane	Republican	IL
106	S371	1	Bob Graham	Democrat	FL
106	S2277	1	William Roth	Republican	DE
106	S1662	0	Max Baucus	Democrat	MT
106	S528	0	Arlen Specter	Republican	PA
106	S689	0	Charles Grassley	Republican	IA
106	HR2106	0	Robert Menndez	Democrat	NJ
106	HJRES90	1	Ronald Paul	Republican	TX
106	HR4856	0	Charles Rangel	Democrat	NY
106	S101	0	Richard Lugar	Republican	IN
106	HR2353	0	Bill McCollum	Republican	FL
106	HR4509	0	Clifford Stearns	Republican	FL
106	S1222	0	Kent Conrad	Democrat	ND
106	S1585	0	Max Baucus	Democrat	MT
106	HR3173	0	Kenny Hulshof	Republican	MO
106	SCONRES4	0	John Ashcroft	Republican	MO
106	S1065	0	Christopher Dodd	Democrat	CT
106	HR412	0	Ralph Regula	Republican	OH
106	SRES120	0	John Ashcroft	Republican	MO
106	HCONRES330	0	Clifford Stearns	Republican	FL
106	S1619	0	Michael DeWine	Republican	OH
106	HRES442	0	James Traficant	Democrat	OH
106	HCONRES190	1	C. Cox	Republican	CA
106	HR4706	0	Benjamin Cardin	Democrat	MD
106	S2694	0	Frank Murkowski	Republican	AK
106	S119	0	Olympia Snowe	Republican	${ m ME}$
106	S3247	0	Thomas Harkin	Democrat	IA
106	HR4444	1	Bill Archer	Republican	TX
106	HR2991	0	Larry Combest	Republican	TX
106	HR435	0	Bill Archer	Republican	TX
106	HR4465	0	Robin Hayes	Republican	NC
106	S2548	0	John Ashcroft	Republican	MO
106	S1724	0	Max Baucus	Democrat	MT
106	SRES285	0	Susan Collins	Republican	${ m ME}$
106	SCONRES55	0	Max Baucus	Democrat	MT
106	HJRES89	0	Ronald Paul	Republican	TX
107	S137	0	Phil Gramm	Republican	TX
107	HCONRES454	1	James Kolbe	Republican	AZ
107	S1671	0	Max Baucus	$\overline{\mathrm{Democrat}}$	MT
107	SCONRES135	1	Don Nickles	Republican	OK
107	HR3019	1	Charles Rangel	Democrat	NY
107	HR5622	0	Sander Levin	Democrat	MI
107	HR2871	1	Douglas Bereuter	Republican	NE
107	S274	1	Max Baucus	Democrat	MT
$\frac{107}{107}$	HCONRES144	$\bar{0}$	Dale Kildee	Democrat	MI
107	S979	ĭ	Richard Durbin	Democrat	ĬL
107	S138	0	Phil Gramm	Republican	TX
107	HR1782	ŏ	Donald Manzullo	Republican	ĬL
107	S3151	ŏ	Phil Gramm	Republican	TX
107	HR3422	ŏ	Peter DeFazio	Democrat	ŌR
107	HR1988	ĭ	Philip English	Republican	PA
107	S1869	0	Blanche Lincoln	Democrat	\overline{AR}
•	HR3009	ĭ	Philip Crane	Republican	IL

107 S1584 0 Larry Craig Republican 107 HR3557 0 William Thomas Republican 107 S714 0 Olympia Snowe Republican 107 SCONRES43 0 Carl Levin Democrat 107 HR2810 0 Silvestre Reyes Democrat 107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 S944 0 Max Baucus Democrat 107 HR3129 0 Philip Crane Republican 107 S2088 0 Evan Bayh Democrat 107 S140 0 Phil Gramm Republican 107 S140 0 P	NY MI OR MD MT ID CA ME MI TX PA OH IN MI ME MT IL IN
107 HRES27 0 Peter DeFazio Democrat 107 S1372 1 Paul Sarbanes Democrat 107 S401 0 Max Baucus Democrat 107 S1584 0 Larry Craig Republican 107 HR3557 0 William Thomas Republican 107 S714 0 Olympia Snowe Republican 107 SCONRES43 0 Carl Levin Democrat 107 HR2810 0 Silvestre Reyes Democrat 107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 HR3129 0 Philip Crane Republican 107 S2088 0	OR MD MT ID CA ME MI TX PA OH IN MI ME MT IL IN
107 S1372 1 Paul Sarbanes Democrat 107 S401 0 Max Baucus Democrat 107 S1584 0 Larry Craig Republican 107 HR3557 0 William Thomas Republican 107 HR3557 0 William Thomas Republican 107 S714 0 Olympia Snowe Republican 107 SCONRES43 0 Carl Levin Democrat 107 HR2810 0 Silvestre Reyes Democrat 107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 HR3129 0 Philip Crane Republican 107 S2088 0	MD MT ID CA ME MI TX PA OH IN MI ME MT IL IN
107 S401 0 Max Baucus Democrat 107 S1584 0 Larry Craig Republican 107 HR3557 0 William Thomas Republican 107 S714 0 Olympia Snowe Republican 107 SCONRES43 0 Carl Levin Democrat 107 HR2810 0 Silvestre Reyes Democrat 107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 S944 0 Max Baucus Democrat 107 HR3129 0 Philip Crane Republican 107 S2088 0 Evan Bayh Democrat 107 S140 0 Phi	MT ID CA ME MI TX PA OH IN MI ME MT IL IN
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107 SCONRES43 0 Carl Levin Democrat 107 HR2810 0 Silvestre Reyes Democrat 107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 S944 0 Max Baucus Democrat 107 HR3129 0 Philip Crane Republican 107 S2088 0 Evan Bayh Democrat 107 S140 0 Phil Gramm Republican 107 S1104 1 Bob Graham Democrat	MI TX PA OH IN MI ME MT IL IN
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107 HCONRES262 0 Philip English Republican 107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 S944 0 Max Baucus Democrat 107 HR3129 0 Philip Crane Republican 107 S2088 0 Evan Bayh Democrat 107 S140 0 Phil Gramm Republican 107 S1104 1 Bob Graham Democrat	PA OH IN MI ME MT IL IN
107 HR518 0 Ralph Regula Republican 107 S2796 0 Richard Lugar Republican 107 HR1484 0 Sander Levin Democrat 107 S1813 0 Olympia Snowe Republican 107 S944 0 Max Baucus Democrat 107 HR3129 0 Philip Crane Republican 107 S2088 0 Evan Bayh Democrat 107 S140 0 Phil Gramm Republican 107 S1104 1 Bob Graham Democrat	OH IN MI ME MT IL IN
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107 S140 0 Phil Gramm Republican 107 S1104 1 Bob Graham Democrat	
107 S1104 1 Bob Graham Democrat	TX
	$\overline{\mathrm{FL}}$
107 S422 0 Paul Wellstone Democrat	MN
107 HR3010 1 Philip Crane Republican	IL
107 S2062 1 Richard Durbin Democrat	IL
107 HCONRES126 0 John Duncan Republican	TN
107 S2105 0 James Inhofe Republican	OK
107 HCONRES400 0 Ronnie Shows Democrat	MS
107 HR1973 0 Charles Norwood Republican	GA
107 S3123 0 Michael DeWine Republican	OH
107 HCONRES54 1 Saxby Chambliss Republican	GA
107 S3089 0 Carl Levin Democrat	MI
107 S2235 1 John Breaux Democrat	LA
107 HR3571 0 Robert Berry Democrat 107 S586 0 Christopher Dodd Democrat	$ \begin{array}{c} AR \\ CT \end{array} $
107 S586 0 Christopher Dodd Democrat 107 S1347 0 Max Baucus Democrat	MT
107 HJRES105 0 Howard Coble Republican	NC
107 S2005 0 Richard Lugar Republican	IN
107 S943 0 Max Baucus Democrat	MT
107 S643 1 Max Baucus Democrat	MT
107 HR4779 0 Philip Crane Republican	IL
107 S1209 1 Jeff Bingaman Democrat	NM
107 HR85 0 Philip English Republican	PA
107 HR2149 1 Philip Crane Republican	IL
107 HR837 0 James Oberstar Democrat	MN
107 S1100 0 Kent Conrad Democrat	\overline{ND}
107 HR1757 0 Samuel Johnson Republican	TX
107 HR3005 1 William Thomas Republican	CA
107 HR4723 0 Sander Levin Democrat	MI
107 S1636 0 Max Baucus Democrat	MT
107 HR1690 0 Maxine Waters Democrat	CA
107 HR4128 0 Kevin Brady Republican 107 SCONRES37 0 Joseph Lieberman Democrat	$_{\mathrm{CT}}^{\mathrm{TX}}$
107 SCONRES37 0 Joseph Lieberman Democrat 107 HCONRES132 0 Ellen Tauscher Democrat	CA
107 HR3008 1 Nancy Johnson Republican	CT
107 HCONRES256 0 Philip English Republican	PA
107 S935 0 Max Baucus Democrat	MT
107 HR2603 0 William Thomas Republican	CA
107 S525 1 Bob Graham Democrat	FL
107 HRES16 0 James Traficant Democrat	OH
107 HR5385 1 Philip Crane Republican	IL
107 HR473 0 Lynn Rivers Democrat	MI

107	Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
107						TX
108						
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108			-			
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108						
108			-		Republican	
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108 HR3949 0 Samuel Graves Republican MO 108 HR2629 0 Joseph Crowley Democrat NY 108 HCONRES210 0 Peter DeFazio Democrat OR 108 HCONRES293 1 Joseph Knollenberg Republican MI 108 HR4842 1 Thomas DeLay Republican TX 108 S1417 1 Charles Grassley Republican IA 108 S1416 1 Charles Grassley Republican IA 108 S489 1 Michael DeWine Republican OH 108 HR851 0 Louise Slaughter Democrat NY 108 HR4103 1 William Thomas Republican CA 108 HR2739 1 Thomas DeLay Republican TX 108 HR2532 0 Philip English Republican TX 108 HCONRES225 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
108 HR2629 0 Joseph Crowley Democrat NY 108 HCONRES110 0 Michael Crapo Republican ID 108 HCONRES290 0 Peter DeFazio Democrat OR 108 HCONRES23 1 Joseph Knollenberg Republican MI 108 HR4842 1 Thomas DeLay Republican IX 108 S1416 1 Charles Grassley Republican IA 108 S1416 1 Charles Grassley Republican IA 108 HR851 0 Louise Slaughter Democrat NY 108 HR4103 1 William Thomas Republican CA 108 HR2739 1 Thomas DeLay Republican TX 108 HRE5328 0 Philip English Republican PA 108 HCONRES225 0 Gregory Meeks Democrat CT 108 HR5117 0						
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108						
108				Joseph Knollenberg	Republican	
108	108	HR4842	1		Republican	TX
108				Charles Grassley		
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108 HR2738 1 Thomas DeLay Republican TX 108 S671 1 Charles Grassley Republican IA						
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108 HR4780 0 Peter DeFazio Democrat OR	108			Charles Grassley	Republican	IA
	108	HR4780	0	Peter DeFazio	Democrat	OR

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
108	HCONRES224	0	Virgil Goode	Democrat/Independent	VA
108	HRES510	0	Dale Kildee	Democrat	MI
108	HR2056	ő	Scott McInnis	Republican	CO
108	SRES119	ő	Susan Collins	Republican	$\stackrel{\circ}{ m ME}$
108	HR4759	ĭ	Thomas DeLay	Republican	TX
108	HR3564	0	Ted Strickland	Democrat	ОH
108	HR5026	Ö	Sander Levin	Democrat	MI
108	S2205	0	Carl Levin	Democrat	MI
108	S676	0	Max Baucus	Democrat	MT
108	S1324	1	Charles Grassley	Republican	IA
108	HR2737	0	Sander Levin	Democrat	MI
108	HR1031	0	E. Shaw	Republican	FL
108	S136	1	Blanche Lincoln	Democrat	AR
108	SRES289	0	Byron Dorgan	Democrat	ND
108	S2765	0	Olympia Snowe	Republican	$\overline{\mathrm{ME}}$
108	HRES718	0	Christopher John	Democrat	LA
108	S2529	1	Charles Grassley	Republican	IA
108	S1989	0	Mark Dayton	Democrat	MN
108	SCONRES22	$\frac{1}{2}$	Don Nickles	Republican	OK
108	HR4559	0	Henry Hyde	Republican	IL
108 108	HR3958 HR2365	1	Sander Levin	Democrat Republican	MI PA
108	S4077	$\frac{1}{1}$	Philip English Norm Coleman	Republican	MN
109	S4066	$\stackrel{\scriptstyle 1}{0}$	Lindsey Graham	Republican	SC
109	HR6142	1	William Thomas	Republican	$\overset{\mathrm{3C}}{\mathrm{CA}}$
109	S1307	1	Charles Grassley	Republican	IA
109	HR5684	1	John Boehner	Republican	OH
109	HR466	0	Samuel Graves	Republican	MO
109	S3933	ĭ	James Inhofe	Republican	OK
109	HR1170	ī	Sander Levin	Democrat	MI
109	HCONRES230	1	Darrell Issa	Republican	CA
109	HR3480	1	Michael Michaud	Democrat	${ m ME}$
109	S1050	1	Blanche Lincoln	Democrat	AR
109	HR3283	1	Philip English	Republican	PA
109	HCONRES342	1	Robert Andrews	Democrat	NJ
109	SCONRES25	0	William Frist	Republican	TN
109	HR6076	1	Charles Rangel	Democrat	NY
109	HJRES27	1	Bernard Sanders	Independent	VT
109	S1444	1	Max Baucus	Democrat	MT
109	HR6032	1	Robin Hayes	Republican	NC
109	S3903	1	Elizabeth Ďole	Republican	NC
109	HR5068	1	Deborah Pryce	Republican	OH
109	S3938	$\frac{1}{2}$	Michael Crapo	Republican	ID NV
109	S3640	0	Charles Schumer	Democrat	NY
109 109	HR5529 HR6406	1 1	Philip English William Thomas	Republican	$_{\mathrm{CA}}^{\mathrm{PA}}$
109	S3967	1	Hillary Clinton	Republican Democrat	NY NY
109	HR4680	1	Gerald Weller	Republican	IL
109	HR1498	1	Timothy Ryan	Democrat	OH
109	HR3306	1	Charles Rangel	Democrat	NY
109	HR3045	1	Thomas DeLay	Republican	TX
109	HR4340	1	Roy Blunt	Republican	MO
109	S3904	1	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
109	HR4217	ī	Joseph Knollenberg	Republican	MI
109	HR2208	ī	Donald Manzullo	Republican	IL
109	SCONRES111	0	Charles Hagel	Republican	NE
109	HR4812	ĺ	Sherrod Brown	Democrat	OH
109	S1308	1	Max Baucus	Democrat	MT
109	HR5043	1	Benjamin Cardin	Democrat	MD
109	SRES142	1	Byron Dorgan	Democrat	ND
					

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
109	S355	1	Byron Dorgan	Democrat	ND
109	HR4186	1	David Camp	Republican	MI
109	HR6346	1	William Thomas	Republican	$_{\rm CA}$
109	HRES84	1	Joseph Knollenberg	Republican	MI
109	HCONRES244	0	David Dreier	Republican	CA
109	S3364	0	Ben Nelson	Democrat	NE
$\frac{109}{109}$	S752	0	Frank Lautenberg	Democrat	$_{ m CA}^{ m NJ}$
109	$\begin{array}{c} \mathrm{HR}5696 \\ \mathrm{S}46 \end{array}$	$0 \\ 1$	Jim Costa Carl Levin	Democrat Democrat	MI
109	HR5196	$\stackrel{\scriptstyle 1}{0}$	Donald Manzullo	Republican	$\overset{ ext{NII}}{ ext{IL}}$
109	HRES98	1	Dale Kildee	Democrat	MI
109	HR4392	1	Thomas Allen	Democrat	ME
109	SCONRES84	0	Jon Kyl	Republican	$\overline{\mathrm{AZ}}$
109	S2317	$\overset{\circ}{1}$	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
109	S3658	$\dot{1}$	Charles Grassley	Republican	IA
109	HR1575	$\overline{1}$	Sue Myrick	Republican	$\stackrel{ ext{NC}}{ ext{NC}}$
109	S2267	$\overline{1}$	Byron Dorgan	Democrat	ND
109	HR3271	1	Michael Rogers	Republican	MI
109	S2	1	Olympia Snowe	Republican	${ m ME}$
109	HRES433	0	Michael Michaud	Democrat	${ m ME}$
109	HR3583	0	Anne Northup	Republican	KY
109	S1542	1	Debbie Ann Stabenow	Democrat	MI
109	S1048	1	Charles Schumer	Democrat	NY
109	S3569	1	Charles Grassley	Republican	IA
109	HR5718	1	Robin Hayes	Republican	NC
109	HR886	1	James Kolbe	Republican	AZ
109	S3899	1	Byron Dorgan	Democrat	ND
109	HCONRES346	1	James Ramstad	Republican	MN
109	S377	1	Joseph Lieberman	Democrat	CT
109 109	S1551	$\frac{1}{1}$	David Vitter	Republican	$egin{array}{c} \mathrm{LA} \\ \mathrm{TX} \end{array}$
109	HR3363 HCONRES217	1	Kevin Brady Mark Souder	Republican Republican	IN
109	SCONRES28	1	Richard Lugar	Republican	IN
109	S2467	1	Charles Grassley	Republican	IA
109	HCONRES186	1	Virgil Goode	Democrat/Independent	VA
109	HR4250	0	John Mica	Republican	FL
109	SCONRES55	$\overset{\circ}{1}$	Larry Craig	Republican	ID
109	S1963	1	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
109	HR6208	1	Philip English	Republican	PA
109	SRES459	$\bar{0}$	Evan Bayh	Democrat	IN
109	HR2414	1	Michael Rogers	Republican	MI
109	S817	1	Debbie Ann Stabenow	Democrat	MI
109	HR3141	0	Mark Kirk	Republican	IL
109	HCONRES303	1	Peter DeFazio	Democrat	OR
109	HRES577	1	Philip English	Republican	PA
109	HCONRES131	1	David Dreier	Republican	CA
109	HR4733	1	Charles Rangel	Democrat	NY
109	S191	1	Gordon Smith	Republican	OR
109	S1421	1	Susan Collins	Republican	ME
109	HR746	1	Benjamin Cardin	Democrat	MD
109	HCONRES203	1	Charles Rangel	Democrat	NY
109 109	HR5070	1	Charles Rangel	Democrat	NY
109	S2027 S984	1 1	Charles Grassley	Republican Republican	$^{\rm IA}_{\rm ME}$
109	S3556	1	Olympia Snowe Jim DeMint		SC
1109	SRES241	$\stackrel{1}{0}$	Sherrod Brown	Republican Democrat	OH
110	HR6530	1	Charles Rangel	Democrat	NY
110	HR1958	1	Marcy Kaptur	Democrat	OH
110	HR2714	1	James Barrett	Republican	SC
110	S2113	$\overline{1}$	Max Baucus	Democrat	$\widetilde{\mathrm{MT}}$

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
110	S2372	1	Gordon Smith	Republican	OR
110	SRES417	0	Charles Hagel	Republican	NE
110	HRES525	1	Thomas Allen	Democrat	$\overline{\mathrm{ME}}$
110	HRES1087	0	Marcy Kaptur	Democrat	OH
110	HR1002	1	John Spratt	Democrat	SC
110	HRES928	1	David Dreier	Republican	CA
110	HR6452	1	Earl Blumenauer	Democrat	OR
110	S2222	1	Hillary_Clinton	Democrat	NY
110	S3464	1	Max Baucus	Democrat	MT
110	SCONRES60	0	Max Baucus	Democrat	MT
110	S1250	0	Olympia Snowe	Republican	ME
110	HR6148	1	Peter DeFazio	Democrat	$_{ m OR}$
110	HR2600	1	William Pascrell	Democrat	NJ
110	S217	1	Norm Coleman	Republican	MN
110	HR3214	0	Patrick Murphy	Democrat	PA
110	HR2942	1	Timothy Ryan	Democrat	OH
110	S974	1	Susan Collins	Republican	ME
110	S2611	1	Byron Dorgan	Democrat	ND
110	S491	1	Charles Schumer	Democrat	NY
110	HR3684	1	Mike McIntyre	Democrat	NC
110	HR857	1	Michael McNulty	Democrat	NY
110	S364	1	John Rockefeller	Democrat	WV
110	HR5960	1	Jason Altmire	Democrat	PA
110	HCONRES137	1	Shelley Berkley	Democrat	NV
110	HR6415	1	William Pascrell	Democrat Democrat	NJ WA
110	HR3273	$1 \\ 1$	Rick Larsen		ME
110 110	HR6180 HRES552		Michael Michaud	Democrat	$\overset{\mathrm{ME}}{\mathrm{GA}}$
		$1 \\ 1$	James Marshall	Democrat	OH
110 110	HR4329 HR3427	1	Marcy Kaptur	Democrat	WA
110	HR708	1	James McDermott Philip English	Democrat Republican	PA
110	S2776	1	Maria Cantwell	Democrat	WA
110	S2906	1	Robert Casey	Democrat	PA
110	SRES33	0	Richard Lugar	Republican	IN
110	S3083	1	Sherrod Brown	Democrat	ОН
110	HR782	$\stackrel{\cdot}{1}$	Timothy Ryan	Democrat	ŎĦ
110	S652	$\stackrel{\cdot}{1}$	Gordon Smith	Republican	ŎR
110	HR1729	$\stackrel{\cdot}{1}$	Robin Hayes	Republican	NC
110	HR6924	0	Walter Herger	Republican	$\overset{\text{r.o}}{\text{CA}}$
110	S796	ĭ	Jim Bunning	Republican	KY
110	HR6560	$\overline{1}$	Charles Rangel	Democrat	$\overline{\mathrm{NY}}$
110	S318	$\bar{1}$	Elizabeth Dole	Republican	$\overline{\mathrm{NC}}$
110	HR504	$\bar{1}$	Robin Hayes	Republican	$\overline{\mathrm{NC}}$
110	S460	$\overline{1}$	Olympia Snowe	Republican	${ m ME}$
110	S1919	1	Max Baucus	Democrat	MT
110	S445	1	Debbie Ann Stabenow	Democrat	MI
110	S1280	1	Sherrod Brown	Democrat	ОН
110	S2964	0	Frank Lautenberg	Democrat	NJ
110	HR7222	1	Charles Rangel	Democrat	NY
110	S1021	1	Debbie Ann Stabenow	Democrat	MI
110	HR3688	1	Steny Hoyer	Democrat	MD
110	SJRES38	0	Charles Grassley	Republican	IA
110	S2830	1	Harry Reid	Democrat	NV
110	HR7014	0	Philip English	Republican	PA
110	HR3905	1	James McDermott	Democrat	WA
110	S1652	1	Elizabeth Dole	Republican	\overline{NC}
110	HR910	1	Philip English	Republican	PA
110	HCONRES22	0	Virgil Goode	Democrat/Independent	VA
110	HR3934 HR5724	1	Joseph Crowley	Democrat	NY
110		1	Steny Hoyer	Democrat	MD

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
110	HR1127	1	Joseph Knollenberg	Republican	MI
110	S571	1	Byron Dorgan	Democrat	ND
110	HR1229	1	Artur Davis	Democrat	AL
110	HR6795	0	Peter DeFazio	Democrat	OR
110	HR3920	1	Charles Rangel	Democrat	NY
110	HCONRES178	0	David Dreier	Republican	$_{ m MI}$
110	HR2886	1	Joseph Knollenberg	Republican	MI
110	S2976	1	Frank Lautenberg	Democrat	$_{ m NJ}$
110	HR1278	1	David Camp	Republican	$_{ m MS}^{ m MI}$
111 111	HR4759 HR5694	1 1	Gene Taylor	$egin{array}{l} { m Democrat} \\ { m Democrat} \end{array}$	$\overset{\text{MS}}{\text{CA}}$
111	HR5797	$\stackrel{\scriptstyle 1}{0}$	Zoe Lofgren Rick Larsen	Democrat	WA
111	S4003	$\overset{0}{1}$	Jim DeMint	Republican	SC
111	HR4046	0	Shelley Berkley	Democrat	NV
111	HR2293	$\overset{0}{1}$	Christopher Van Hollen	Democrat	MD
111	HRES1562	0	Walter Minnick	Democrat	ID
111	HRES934	ő	John Dingell	Democrat	MI
111	HRES987	Ö	Rodney Frelinghuysen	Republican	NJ
111	HR3012	ĭ	Michael Michaud	Democrat	m ME
111	S1982	$\bar{1}$	Sherrod Brown	Democrat	OH
111	S1644	1	Debbie Ann Stabenow	Democrat	$\overline{\mathrm{MI}}$
111	S1671	0	Lindsey Graham	Republican	SC
111	HR4101	1	James McDermott	Democrat	WA
111	HRES997	1	Betty Sutton	Democrat	ОН
111	HR496	1	Charles Rangel	Democrat	NY
111	S1466	1	Debbie Ann Stabenow	Democrat	MI
111	S3823	1	Jefferson Sessions	Republican	$_{ m AL}$
111	S705	1	John Kerry	Democrat	MA
111	S2821	1	Sherrod Brown	Democrat	OH
111	S363	1	Olympia Snowe	Republican	ME
111 111	S730	1 1	John Ensign	Republican	$_{ m CA}^{ m NV}$
111	S1141 S1043	1	Dianne Feinstein Lindsey Graham	Democrat Republican	SC SC
111	S594	0	Robert Casey	Democrat	PA
111	HRES933	$\overset{\mathtt{o}}{1}$	John Dingell	Democrat	MI
111	SRES311	1	Richard Lugar	Republican	IN
111	HR5975	0	Brad Sherman	Democrat	$\overset{\text{n.}}{\text{CA}}$
111	HR6007	Ö	Mark Critz	Democrat	PA
111	HR4284	1	Charles Rangel	Democrat	NY
111	HR3674	1	Peter Welch	Democrat	VT
111	HR1971	1	John Spratt	Democrat	SC
111	HRES887	1	Robert Andrews	Democrat	NJ
111	HR5156	1	Doris Matsui	Democrat	$\underline{\mathrm{CA}}$
111	S2861	1	Olympia Snowe	Republican	ME
111	HRES414	0	David Dreier	Republican	CA
111	SRES136	0	John Kerry	Democrat	MA
111 111	SRES76	0	Maria Cantwell Rick Larsen	Democrat	$_{ m WA}^{ m WA}$
111	$\frac{HR2310}{S496}$	1 1	Maria Cantwell	Democrat Democrat	WA WA
111	S1766	1	Sherrod Brown	Democrat	OH
111	S1700 S3741	1	Kay Hagan	Democrat	NC
111	HR3039	1	James McDermott	Democrat	WA
111	HR5393	1	Larry Kissell	Democrat	NC
111	HR3252	0	Rubn Hinojosa	Democrat	$\overrightarrow{\mathrm{TX}}$
111	HCONRES276	ŏ	Robert Andrews	Democrat	NJ
111	HR6259	0	Zachary Space	Democrat	OH
111	HRES1748	0	F. Sensenbrenner	Republican	WI
111	S1631	1	Max Baucus	Democrat	MT
111	HR3786	1	Louise Slaughter	Democrat	NY
111	HRES1699	0	Steve Kagen	Democrat	WI

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
111	HRES1435	0	Charles Djou	Republican	HI
111	SRES388	0	Debbie Ann Stabenow	Democrat	MI
111	S1616	1	Maria Cantwell	Democrat	WA
111	HR6311	0	Earl Blumenauer	Democrat	OR
111	HR5940	1	Robert Aderholt	Republican	$_{ m DA}^{ m AL}$
111	HR471	1	Jason Altmire	Democrat	PA
$\frac{111}{112}$	HR2927	1	William Pascrell	Democrat	NJ MI
$\frac{112}{112}$	$\frac{HR5986}{S3327}$	$\frac{1}{1}$	David Camp Sherrod Brown	Republican Democrat	OH
112	HR3079	1	Eric Cantor	Republican	VA
$\frac{112}{112}$	HR6537	1	Devin Nunes	Republican	$\overset{\mathbf{VA}}{\mathrm{CA}}$
112	S2215	1	Richard Durbin	Democrat	IL
112	HRES472	0	David Dreier	Republican	$\overset{\mathbf{1L}}{\mathrm{CA}}$
112	S1443	1	Dianne Feinstein	Democrat	$\overset{\text{CA}}{\text{CA}}$
112	HR2832	1	David Camp	Republican	MI
112	S3406	$\bar{1}$	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
112	S1641	$\bar{1}$	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
112	S3225	0	Ron Wyden	Democrat	OR
112	HR4105	1	David Čamp	Republican	${ m MI}$
112	S1827	0	Debbie Ann Stabenow	Democrat	${ m MI}$
112	HR6642	1	Kevin Brady	Republican	TX
112	HR1518	1	Mark Critz	Democrat	PA
112	HRES374	0	William Shuster	Republican	PA
112	HR2707	1	Devin Nunes	Republican	CA
112	S1130	1	John Rockefeller	Democrat	WV
112	S1683	1	Kay Hagan	Democrat	NC
112	HR6156	1	David Camp	Republican	MI
112	SRES20	1	Mike Johanns	Republican	NE
112	HR2666	0	William Pascrell	Democrat	NJ
$\frac{112}{112}$	S1779 HR6656	$\frac{1}{1}$	Jeff Merkley James McDermott	Democrat	$_{ m WA}^{ m OR}$
112	S2153	1	Max Baucus	Democrat Democrat	MT
$\frac{112}{112}$	S1643	1	Max Baucus	Democrat	MT
112	S1267	1	John Rockefeller	Democrat	WV
112	S3292	1	Claire McCaskill	Democrat	MO
112	S3218	1	Jeanne Shaheen	Democrat	NH
112	S1162	ī	Jim DeMint	Republican	\overline{SC}
112	HR1603	$\bar{1}$	Peter DeFazio	Democrat	ÕŘ
112	HR913	1	Robert Aderholt	Republican	AL
112	S3326	1	Max Baucus	Democrat	MT
112	HRES719	0	David Dreier	Republican	CA
112	HR4071	1	Tammy Baldwin	Democrat	WI
112	HRES103	1	F. Sensenbrenner	Republican	WI
112	HR6538	1	Devin Nunes	Republican	CA
112	HRES266	1	Mike Kelly	Republican	PA
112	HR2287	1	Marcy Kaptur	Democrat	OH
112	S3347	1	Sherrod Brown	Democrat	OH
112	HR4221	1	Christopher Smith	Republican	$_{ m NC}^{ m NJ}$
$\frac{112}{112}$	HR29	1	Mike McIntyre	Democrat	NC
$\frac{112}{112}$	HR3112 S1642	$\frac{1}{1}$	Michael Turner Max Baucus	Republican Democrat	$_{ m MT}^{ m OH}$
$\frac{112}{112}$	HR5157	$\stackrel{1}{0}$	Zoe Lofgren	Democrat Democrat	$\overset{\mathrm{M}}{\mathrm{CA}}$
$\frac{112}{112}$	$\frac{1107}{1100}$	1	Zoe Loigren Zoe Lofgren	Democrat	$\overset{\mathrm{CA}}{\mathrm{CA}}$
112	HR3078	1	Eric Cantor	Republican	VA
112	S98	1	Robert Portman	Republican	OH
112	HR6699	1	Michael Turner	Republican	OH
112	HR3782	1	Darrell Issa	Republican	$\overset{\text{OH}}{\text{CA}}$
112	S308	1	Robert Casey	Democrat	PA
112	HR2813	ī	Peter Welch	Democrat	$\overline{ m VT}$
112	S2029	$\bar{1}$	Ron Wyden	Democrat	OR
	.3=0=0			3	

Congress	Bill Number	Lobbied	Sponsor	Sponsor Party	Sponsor State
$\frac{3}{112}$	SRES218	0	Richard Lugar	Republican	IN
112	HR6149	ĭ	Michael Michaud	Democrat	$\overline{ ext{ME}}$
112	HR1749	1	Louise Slaughter	Democrat	NY
112	HRES86	$\overline{1}$	Rodney Frelinghuysen	Republican	$ \stackrel{\text{NJ}}{\text{NJ}} $
112	HR2754	$\overline{1}$	Larry Kissell	Democrat	NC
112	HR5708	1	Charles Boustany	Republican	LA
112	S3568	1	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
$\frac{112}{112}$	S708	1	Sherrod Brown	Democrat	OH
112	HR3080	1	Eric Cantor	Republican	VA
$\frac{112}{112}$	S1711	1	Sherrod Brown	Democrat	OH
112	HR6307	1	Ander Crenshaw	Independent	FL
$\frac{112}{112}$	HR2216	1	Rubn Hinojosa	Democrat	TX
$\begin{array}{c} 112 \\ 112 \end{array}$	S108	$\stackrel{\scriptstyle 1}{1}$		Republican	NV
112	HR2988		John Ensign		$\overset{\mathbf{N}}{\mathbf{C}}\overset{\mathbf{V}}{\mathbf{A}}$
		0	Howard Berman	Democrat	
112	HR502	1	Doris Matsui	Democrat	CA
112	S1238	1	Olympia Snowe	Republican	ME
112	S433	1	Jefferson Sessions	Republican	$_{ m LA}$
112	HR3375	1	Steve King	Republican	IA
112	S3671	1	Richard Lugar	Republican	IN
113	HR3830	1	David Camp	Republican	MI
113	S660	1	Orrin Hatch	Republican	UT
113	HR1020	1	Aaron Schock	Republican	IL
113	S1331	1	Max Baucus	Democrat	MT
113	HR889	1	Zoe Lofgren	Democrat	$\underline{C}\underline{A}$
113	HR2139	1	Ander Crenshaw	Independent	FL
113	S662	1	Max Baucus	Democrat	MT
113	S790	1	Claire McCaskill	Democrat	MO
113	S489	1	John Thune	Republican	SD
113	HR4763	1	Tony Crdenas	Democrat	CA
113	S718	1	Richard Durbin	Democrat	IL
113	S431	1	Dianne Feinstein	Democrat	CA
113	HR400	1	Doris Matsui	Democrat	CA
113	HR2709	1	David Camp	Republican	MI
113	S1788	1	John Thune	Republican	SD
113	S432	1	Dianne Feinstein	Democrat	CA
113	HR1682	1	Zoe Lofgren	Democrat	CA
113	HR580	1	Michael Turner	Republican	ОН
113	HR156	0	Mike McIntyre	Democrat	NC
113	HR166	1	Charles Boustany	Republican	LA
113	S1900	$\bar{1}$	Max Baucus	Democrat	$\overline{\mathrm{MT}}$
113	HR191	$\bar{1}$	Marcy Kaptur	Democrat	OH
113	HRES712	$\overline{1}$	Bobby Rush	Democrat	ĬL
113	S1748	$\bar{1}$	Brian Schatz	Democrat	$\overline{\mathrm{HI}}$
113	S1179	$\overline{1}$	Jeanne Shaheen	Democrat	NH
113	HCONRES39	$\dot{1}$	Ted Yoho	Republican	FL
113	HR3558	$\overline{1}$	Tom Graves	Republican	$\overset{\mathbf{L}}{\mathrm{GA}}$
113	HR1777	$\stackrel{1}{1}$	Christopher Smith	Republican	NJ
113	S192	1	John Barrasso	Republican	WY
113	HR3167	1	Lee Terry	Republican	NE
113	HR3733	1	Earl Blumenauer	Democrat	OR
113	HR1420	$\stackrel{1}{0}$	Pete Gallego	Democrat	TX
113	S1412	1	Kay Hagan	Democrat	$\stackrel{1}{\text{NC}}$
113	S1412 S1839				AK
		1	Mark Begich	Democrat	
113	HR3467	0	Louise Slaughter	Democrat	NY
113	HR3004	$\frac{1}{1}$	Ami Bera	Democrat	CA
113	S355	1	Jeff Merkley	Democrat	OR

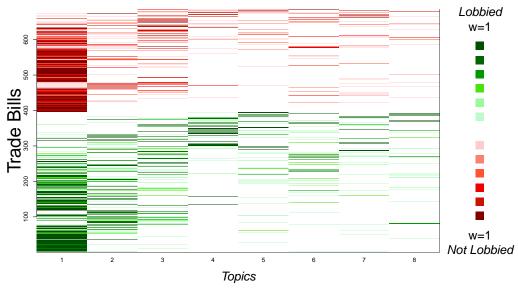


Figure 1: **Distribution over Topics and Lobbying:** This figure summarizes the distribution over 8 trade-related topics for each bill. Lines with darker shade in each column implies that a given bill is highly associated with the given topic. It shows that Topic 2 and Topic 4 are useful in distinguishing lobbied (green) and non-lobbied bills (red).

7.2 LDA Topic Models Applied to Trade Bills

I assume that a given bill has a probability distribution over "topics", where each topic can be characterized as a distribution over words. For example, suppose that there are five topics that generally describe the universe of trade bills: 1) free trade agreement, 2) miscellaneous tariff bill, 3) fast-tract authority for president, 4) appropriations bill, and 5) protection bill. To the extent that a single bill contains one or more than one of these topics, a bill can be characterized as a probability distribution over these topics, e.g., 70% free trade agreement with 30% protection where the latter reflects the concerns of import-competing industries in the face of free trade agreement. Secondly, a topic is a probability distribution over words because free trade agreement topic might have more frequent use of words such as agreement, tariff, president, import and export, etc than appropriations topic.³ This will help us characterize each bill in terms of the distribution over topics, which will be subsequently used to link to the occurrence of lobbying.

I fit topic models with 5 to 20 topics. Using the one topic model as a baseline, I chose a model with highest Bayes factor to determine the number of topics.⁴ This gives the 8 topic model. Figure 1 graphically summarizes the distribution over the 8 topics for each bill categorizing non-lobbied (red & above 400) and lobbied bills (green & below 400) separately. I check whether there exists differences between lobbied and non-lobbied bills. It shows that both kinds of bills are heavily loaded with Topic 1. This is not surprising in that each bill is trade-related and the

³See Blei, Ng, and Jordan (2003) for a more formal description of Latent dirichlet allocation topic models used in this section.

⁴ For N topic model M_N , Bayes factor is calculated based by computing the following quantity $\frac{\Pr(D|M_N)}{\Pr(D|M_1)} = \frac{\int \Pr(\theta_N|M_N) \Pr(D|\theta_N,M_N) d\theta_N}{\int \Pr(\theta_1|M_1) \Pr(D|\theta_1,M_1) d\theta_1}$, where D is observed data, θ is model parameters.

Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8
trade agreement	import	countri assist	fund appropri	requir author	tax requir	program	energ
agreement	trade	develop	ani			agricultur	author
wto	certain	intern	use.	report ani	certain	direct	program
congress	articl	foreign	prohibit	defens	credit	amend	direct
reduir presid	duti	direct author	program depart	applic provid	allow plan	food provid	amend requir
ani	custom	presid govern	feder	direct	amend	fund	fuel gas
free ustr repres	author presid provid	congress	offic nation author	alien year patent	rule incom corpor	loan state rural	establish electr
negoti	treatment	requir	avail	establish	insur	assist	state
product	requir	bank _.	requir	state	amount	research	technolog
foreign	amend	provid	servic	person	provis	grant	develop
world	apparel	includ	specifi	amend	bank	payment	research
intern	relief	appropri	state	program	provid	establish	use
report	good	export	includ	feder	benefit	develop	power
action	textil	state	provid	secur	invest	requir	ani
respect	tariff	committe	make	use	state	appropri	includ
implement	determin	congression	certain	committe	worker	elig	oil
organ	countri	support	relat	includ	year	use	certain
market	produc	ani	assist	militari	fund	crop	commerci
access	origin	servic	agenc	law	increas	make	motor
enforc	specifi	amend	general	file	includ	produc	nation
includ	entri	subsaharan	titl	employ	titl	specifi	instruct
disput	enter	program	made	subtitl	extend	year	product
import	dutyfre	specifi	administr	dod	revis	market	administr
author	direct	african	amount	immigr	limit	conserv	oper
amend	make	fund	hous	within	adjust	per	subtitl
china	includ	nation	project	nation	payment	farm	facil

Figure 2: **Distribution over Words in 8 Topics:** This figure presents top 30 words associated with each of the 8 topics. The size is proportional to the loading sizes of each word.

first topic concerns general "trade" as a topic. Compared to Topic 1, Topic 2 and Topic 4 jointly separate the occurrence of lobbying better. In other words, bills with more weights on the two topics tend to get lobbied more.

Figure 2 displays top 30 words associated with each topic. A close examination of Topic 2 and the bills that have the highest loading on the topic suggests that this topic is related to either the fast-track authority bills that grant president an authority to negotiate trade agreements or various bilateral trade agreements themselves, e.g., "United States-Korea Free Trade Agreement Implementation Act" (HR3080). Note that countries negotiate over tariff and non-tariff barriers on highly differentiated products during the course of trade agreements. Topic 4 is related to appropriation bill that authorizes the government to spend money. Most frequent examples include appropriation bills to fund Export-Import Bank of the U.S. and their export financing program to promote U.S. exports abroad, e.g., "Export-Import Bank Reauthorization Act of 2006" (S3938).

To be sure, this is not to argue that all lobbying activities associated with the bills can be considered as pro-trade lobbying. Admittedly, lobbying on liberal trade bills may occur as much to oppose as to support it to be passed. However, the evidence provided in this section strongly suggests that 1) firms are important political actors, 2) they often lobby on specific products, and 3) there exists a pattern that distinguishes between lobbied and non-lobbied trade bills.

7.3 LASSO regression on CRS summary of Trade Bills

LASSO puts a constraint on the sum of coefficients β_j associated with each word.

$$\min_{\beta_0, \beta \in \mathbb{R}^{p+1}} \left[(y_i - \beta_0 - w_i^T \beta)^2 + \lambda \sum_{j=1}^p |\beta_j| \right]$$
 (10)

I use cross-validation to choose λ that minimizes out-of-sample prediction error. Specifically, I do 20-fold cross-validation whereby λ is chosen to minimize the mean-squared error (MSE) in predicting the occurrence of lobbying. The model is then applied to a randomly chosen 5% of the bills to predict how likely it is that each bill will be lobbied.⁵ This process is repeated 1,000 times to examine whether there exist words in the CRS summaries that help to predict the occurrence of lobbying. On average, bills that are not lobbied are predicted to be lobbied 35% of the time, whereas bills that are actually lobbied are predicted to be so almost 80% of the time. I also did non-parametric statistical test to access the mean difference of predicted probabilities between lobbied and non-lobbied bills. Wilcoxon signed-rank test is used because the truncation of probabilities (between zero and one) makes it hard to make the normality assumption necessary for t-test. The result validates that there is a significant mean difference in cross-validation sample prediction (p-value $< 2.2e^{-16}$).

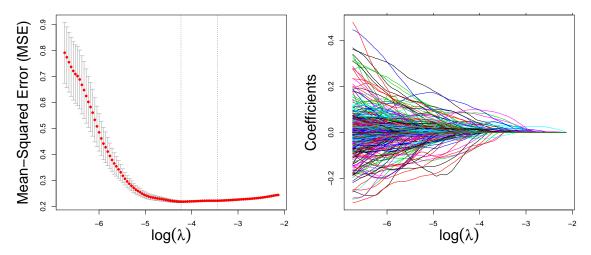


Figure 3: Cross validation: The left panel shows that $log(\lambda) \approx -4$ is found to minimize the MSE. As shown in the right panel, most coefficients are constrained to be zero around the value of the chosen λ .

⁵I used cross-validated estimates instead of out-of-sample-validated estimates given that my purpose is to identify the words associated with lobbying in the sample. I used the latter to check whether there is over-fitting sample-specific attributes of the observed data. Doing so also gives statistically significant separation.

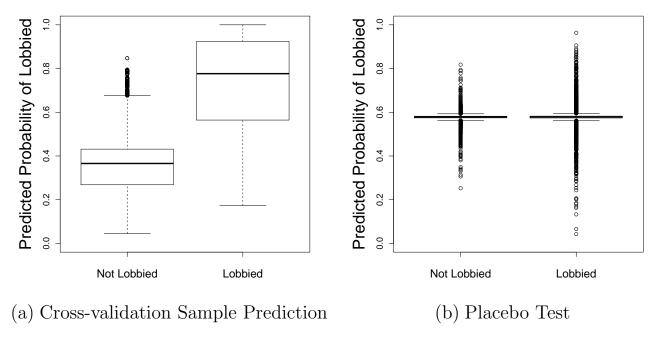


Figure 4: **Predicting the likelihood of Trade Bills Lobbied:** Panel (a) presents the result from the LASSO (Least Absolute Shrinkage and Selection Operator) method. It shows that there exists distinct patterns in the frequency of words appearing in the CRS summaries that distinguish bills that are not-lobbied and lobbied. Panel (b) shows the result from a placebo test whereby such distinction disappears by reordering the bill-to-term matrix such that terms that are originally from bill m becomes as if from bill $n \neq m$.

8 An Example of 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/lobb	LOBBYING R	EPORT					
Lobbying Disclosure Act of 1995 (Section 5) - All Files		age					
1. Registrant Name Organization/Lobbying Firm Self Employed Individual Chrysler Group, LLC							
2. Address Check if different than previously reported Address 1 1401 H Street NW, Suite 700	Address2						
City Washington State	DC Zip Code 20005 -	Country USA_					
Principal place of business (if different than line 2) City State	Zip Code	Country					
4a. Contact Name b. Telephone Number		5. Senate ID#					
NANCY BELL International Number (202) 414-6798	neb14@chrysler.com	400460283-12					
7. Client Name Self Check if client is a state o							
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	13. Organizatio	ons					
INCOME relating to lobbying activities for this reporting period was: EXPENSE relating to lobbying activities for this reporting per were:							
Less than \$5,000	Less than \$5,000						
\$5,000 or more \$	\$5,000 or more	1,245.00					
Provide a good faith estimate, rounded to the nearest \$10,000, of all lobbying related income from the client (including all	14. REPORTING Check box to indicate expense accounting method. See instructions for description of options.						
payments to the registrant by any other entity for lobbying activities on behalf of the client).	☐ Method A. Reporting amounts using LDA definitions only						
detivities on behalf of the elicity.	☐ Method B. Reporting amounts under section 6033(b)(8) of the Internal Revenue Code						
	Method C. Reporting amounts under sec Revenue Code	tion 162(e) of the Internal					
Signature Filed Electronically							

Registrant Chrysler C	Group, LLC	Client Name	Chrysler Group, LLC	_
engaged in lobbying or	•	orting period. Using	general issue areas in which the registrant a separate page for each code, provide	
15. General issue area	code TRD TRADE (DOME	ESTIC/FOREIGN)	(one per page)	
16. Specific lobbying	issues			
_	ements with South Korea, Partnership FTA. Possible		olombia. Trade agreement negotia h Egypt.	ations on
U.S. SENATE, U			S. Trade Representative (USTR)	
First Name	vidual who acted as a lobbyist in th Last Name	Suffix	Covered Official Position (if applicable)	New
Jody	Trapasso			
Jordan	Moon	Dep	uty Chief of Staff and LD, Rep. Sue Myrick	V
Kristina	Pisanelli			
Jennifer	Fox			
19. Interest of each fo Fiat S.p.A. Fiat Automobiles Fiat North Americ	•	listed on line 16 abo	ve	
Printed Name and Tr	Nancy Bell, Ser	nior Manag		2 of 32

Figure 5: 4th Quarter Lobbying Report by Chrysler in 2011

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