Heterogeneous Districts, Interests, and Trade Policy

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CLACS Legacy and the Real Development Challenges for Latin American Regional Economics

> Urbana-Champaign, IL November 11, 2024

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MOTIVATION AND OUR CONTRIBUTION

Motivation: develop a (more) general political economy of trade protection

- · Examines influence of industries, voters, and interest groups on trade policy
- Limitations in previous research:
 - Grossman & Helpman (1994): centralized decision-maker maximizes welfare $\Omega = a W + C$, W: agg. welfare, C: campaign contributions, a: weight on W
 - Trade policy made by district representatives, not a central planner
 - Uneven geographic distribution of manufacturing and sector concentration map
 - Lack of explanation for observed trends, e.g., tariff declines, mismatched voting patterns, and backlash from "China shock"

Our Contribution: add a regional focus, include exporters interests

- **Theory:** model trade policy by district representatives, include interests of specific factors in import and export sectors
- Empirics: estimate structural parameters, *implicit welfare weights*, reflect district and sectoral influence

Implications:

- Identifies regional winners and losers in trade policy
- Highlights unmet demand for protection in districts
- Results: smaller influence of specific factors in import-competing sectors, higher influence of specific factors in exporting sectors and consumers
- Explains low U.S. trade protection despite anti-globalization sentiment

GENERAL MODEL

- Region-sector specific-factor model
- Sector 0, non-tradable (numeraire); sectors *j* = 1,..., *J*, tradable goods (e.g., NAICS 3-digit industries)
- r = 1,..., R: districts (e.g., R = 435, Congressional districts (CDs))
- m = {L, K}: agent types
 K specific factor, immobile across regions
 L non-sector specific factor, mobile across sectors within the region
- Quasilinear preferences (identical across groups)
- Production: $q_{0r} = w_{0r}\ell_{0r}, q_{jr} = F_{jr}(k_{jr}, \ell_{jr}) = f_{jr}(\ell_{jr}), CRS$
- Indirect utility: factor income + tariff revenue (T) + consumer surplus (Φ^m)
 - Non-specific factor:

$$W_{jr}^{L}(p) = w_{jr}\ell_{jr} + n_{jr}^{L}\frac{T(\frac{+}{p})}{n} + n_{jr}^{L}\frac{\Phi^{L}(\frac{-}{p})}{n^{L}}$$

- Specific factor:

$$W_{jr}^{K}(p) = \pi_{jr}(\stackrel{+}{p}) + n_{jr}^{K} \frac{T(\stackrel{+}{p})}{n} + n_{jr}^{K} \frac{\Phi^{K}(\stackrel{-}{p})}{n^{K}}$$

 n_{jr}^m : type-*m* agents in sector *j*, region *r*; \overline{p}_j : international price; $p_j = \overline{p}_j + t_j$: domestic price; Φ^m : total consumer surplus of type-*m* agent; *T*: tariff revenue; π_{jr} : return to fixed factor in sector-region {*jr*}

DISTRICT PREFERRED TARIFFS

• Suppose district *r* could choose its most preferred "national" tariffs: choose $\{t_1, \ldots, t_{J_r}\} \ge 0$ that maximize district *r*'s welfare Ω_r

$$\max_{\{t_{1r},\ldots,t_{Jr}\}} \Omega_r = \sum_j \Lambda_{jr}^L W_{jr}^L + \sum_j \Lambda_{jr}^K W_{jr}^K$$

 Λ_{jr}^{m} : weight district *r* places on the welfare of type-*m* agent, residing in district *r*, employed in industry *j*

Preferred ad-valorem tariff for good j by district r (not observed!)

$$\frac{\tau_{jr}}{1+\tau_{jr}} = -\frac{n}{M_j\epsilon_j} \left[\underbrace{\frac{\Lambda_{jr}^K n_{jr}^K}{\lambda_r} \left(\frac{q_{jr}}{n_{jr}^K}\right)}_{\text{prod.}} - \underbrace{\frac{Q_j}{n}}_{\text{cons.}} \right], \quad \lambda_r^m = \sum_j \Lambda_{jr}^m n_{jr}^m, \lambda_r = \lambda_r^L + \lambda_r^K$$

 Q_j : aggregate production; M_j : imports; $\epsilon_j = M'_j(p_j/M_j) < 0$: import elasticity

DISTRICT PREFERRED TARIFFS: COUNTERFACTUAL EXERCISE

• Assume $\Lambda_{jr}^{\kappa} = \Lambda_{jr}^{L}$ and predict tariffs τ_{jr} , for each district r

$$\frac{\tau_{jr}}{1+\tau_{jr}}=-\frac{n}{M_{j}\epsilon_{j}}\left(\frac{q_{jr}}{n_{r}}-\frac{Q_{j}}{n}\right), \quad j=1,\ldots,J, \quad r=1,\ldots,R,$$

- Compare to actual national tariffs: measure of local unmet demand for protection
- From this analysis: tariff data map map 335
 - District-level productive structure cannot by itself explain observed tariffs (actual tariffs far from district preferred tariffs)
 - Individual districts struggle to have their specific factors heard in national tariff decisions, often not receiving their preferred tariffs

NATIONAL SECTORAL TARIFFS – SMALL COUNTRY CASE

- Institutionally in the US, sectoral tariffs are the result of a political negotiation among representatives from different districts in Congress and the President
- · Consider a model with only importable sectors, given international prices
- Tariffs {t₁,..., t_J} that maximize weighted national welfare Ω

$$\max_{\{t_1,...,t_J\}} \Omega = \sum_r \sum_j \Gamma_{jr}^{\mathcal{K}} W_{jr}^{\mathcal{K}} + \sum_r \sum_j \Gamma_{jr}^{\mathcal{L}} W_{jr}^{\mathcal{L}}$$

 Γ_{jr}^{m} : weight placed on the welfare of an agent of type *m*, residing in district *r*, working in industry *j*

National ad-valorem tariffs (identical preferences):

$$\frac{\tau_j}{(1+\tau_j)} = -\frac{n}{M_j \epsilon_j} \left[\sum_r \frac{\Gamma_{jr}^K n_{jr}^K}{\gamma} \frac{q_{jr}}{n_{jr}^K} - \frac{Q_j}{n} \right], \quad \gamma = \gamma^L + \gamma^K, \gamma^m = \sum_j \Gamma_{jr}^m n_{jr}^m$$

- Generalizes the Grossman-Helpman (1994) model
- Goal: estimate these weights based on observed data

How can we interpret the weights Γ_{ir} ?

- Baron & Ferejohn model of legislative bargaining
- Districts cannot implement their preferred tariffs: form coalitions to garner a majority and implement national tariffs as close as possible to their respective preferred tariffs
- The weights reflect the relative influence of industries and districts in the winning coalition

NATIONAL SECTORAL TARIFFS – LARGE COUNTRY CASE

- Account for the influence of exporting interests and terms of trade
 - Trade liberalization from reciprocal tariff concessions;
- US imports J goods from RoW, exports G goods to RoW
 - Tariffs: US, $\tau = (\tau_1, ..., \tau_j, ..., \tau_J)$; RoW, $\tau^* = (\tau_1^*, ..., \tau_g^*, ..., \tau_G^*)$ (no export subsidies)
 - Domestic prices: US, $p_j = (1 + \tau_j)\overline{p}_j$; RoW, $p_g^* = (1 + \tau_g^*)\overline{p}_g$
- Tariffs determined in a Nash bargaining game between US and RoW:

$$\max_{\{\boldsymbol{\tau},\boldsymbol{\tau}^{*}\}} \left(\boldsymbol{\Omega}^{\boldsymbol{U}\boldsymbol{S}} - \overline{\boldsymbol{\Omega}}^{\boldsymbol{U}\boldsymbol{S}} \right)^{\sigma} \left(\boldsymbol{\Omega}^{\boldsymbol{R}\boldsymbol{o}\boldsymbol{W}} - \overline{\boldsymbol{\Omega}}^{\boldsymbol{R}\boldsymbol{o}\boldsymbol{W}} \right)^{(1-\sigma)}$$

• Tariff protection in sector j

$$\begin{array}{ll} \displaystyle \frac{\tau_{j}^{M}}{(1+\tau_{j}^{M})} & = & \displaystyle -\frac{1}{\delta_{j}M_{j}}\sum_{r}r\frac{\Gamma_{r}^{KM}n_{r}^{KM}}{\gamma}\frac{q_{lr}^{M}}{n_{r}^{KM}} & \displaystyle \operatorname{prod.\ importable\ goods} \\ & \displaystyle -\frac{1}{\delta_{j}}\sum_{r}r\frac{\Gamma_{r}^{KX}n_{r}^{KX}}{\gamma}\mu_{j}\sum_{g}\theta_{jg}\frac{q_{gr}^{X}}{n_{r}^{KX}} & \displaystyle \operatorname{prod.\ exportable\ goods} \\ & \displaystyle +\frac{n}{\delta_{j}}\left(\frac{\epsilon_{j}^{M}}{\epsilon_{X^{*}}}\frac{M_{j}}{n}+\frac{Q_{j}^{M}}{n}+\mu_{j}\sum_{g}\theta_{jg}\frac{D_{g}^{X}}{n}\right) & \displaystyle \operatorname{cons.\ importables\ +\ cons.\ exportables} \end{array}$$

$$\frac{\delta_{j}}{\epsilon_{j}^{X^{*}}} = \epsilon_{j}^{M} \frac{(1 + \epsilon_{j}^{X^{*}})}{\epsilon_{j}^{X^{*}}} < 0, \quad \frac{\theta_{jg}}{\theta_{g}} = \frac{\partial \overline{p}_{g}^{X} / \partial \tau_{g}^{X^{*}}}{\partial p_{j}^{M} / \partial \tau_{j}^{M}} < 0, \quad \mu_{j} = -\frac{d\Omega^{RoW} / d\tau_{j}^{M}}{\sum_{g} d\Omega / d\tau_{g}^{X^{*}}} > 0$$

RoW: Rest of the World; δ_i : generalization of import elasticity ; θ_{iq} : captures tot effects; μ_i : US bargaining strength with respect to τ_i

NATIONAL SECTORAL TARIFFS – LARGE COUNTRY CASE

- Export interests will bring influence to bear on domestic tariffs
- Welfare weights Γ_{ir}^{m} will be different than the small country case
- Why is this model relevant?
 - Highlights overlooked influence of exporters on the determination of domestic tariffs (market access in global markets)
 - Exporters' influence dates back to the Kennedy rounds
 - The President, as the agenda setter, formed a coalition in Congress with exporting districts favoring low tariffs
 - Could explain rising tariffs today: reduced manufacturing export interests by decades of competition from China

ESTIMATION

Estimate model parameters (weights) structurally data assumptions

Small Country Case

$$\frac{\tau_j}{1+\tau_j} = \sum_{r=1}^R \beta_r \frac{n_r}{n_r^K} \left(\frac{q_{jr}/M_{jr}}{-\epsilon_j} \right) + \alpha \left(\frac{Q_j/M_j}{-\epsilon_j} \right) + u_j, \quad \beta_r = \frac{\Gamma_r^K n_r^K}{\left(\sum_r \Gamma_r^K n_r^K + \sum_r \Gamma_r^L n_r^L \right)}$$

Large Country Case

$$\begin{aligned} \frac{\tau_j}{1+\tau_j} &= \sum_{r=1}^R \beta_r \left(\frac{q_{jr}/M_{jr}}{-\delta_j} \right) + \beta^X \left(\frac{\mu_j \theta_{jg} Q_g/M_j}{-\delta_j} \right) + \alpha \left(\frac{Q_j/M_j}{-\delta_j} - \frac{1}{1+\epsilon_j^{X^*}} + \mu_j \theta_{jg} \frac{D_g/M_j}{-\delta_j} \right) + u_j \\ \beta_r &= \frac{\Gamma_r^{KM} n_r^{KM}}{\gamma} \frac{n_r}{n_r^{KM}} > 0, \quad \beta^X = \frac{\Gamma^{K^X} n}{\gamma}, \quad \alpha = -1 \end{aligned}$$

- Estimate welfare weights for clusters of districts that are natural coalitions during legislative bargaining
 - (1) Geography-based coalitions: 9 geographic subdivisions, U.S. Census [TODAY]
 - (2) Coalitions based on electoral dynamics: Competitiveness of State and CDs, 9 regions based on battleground state in 2000 Presidential election and competitiveness of Congressional seat

CASE 1: BY GEOGRAPHY - ESTIMATES AND WEIGHTS

	Small Country	Large Country
β ₁ : New England	0.067 (0.027)	0
β ₂ : Mid-Atlantic	0.163 (0.012)	0
β ₃ : East North Central	0.216 (0.025)	0
β_A : West North Central	0.063 (0.009)	0.292 (0.017)
β ₅ : South Atlantic	0.140 (0.008)	0.264 (0.020)
β ₆ : East South Central	0.089 (0.020)	0
β ₇ : West South Central	0.073 (0.010)	0.060 (0.017)
β ₈ : Mountain	0	0
β ₉ : Pacific	0.214 (0.019)	0
$\beta^{X_{i}} \mu_{j} \theta_{jg} \frac{Q_{g}/M_{j}}{-\delta_{j}}$		3.243 (0.359)
$\alpha: \frac{\alpha_i / m_i}{-\epsilon_i}$	-1	
$ \alpha: \frac{\underline{Q}_j / M_j}{-\epsilon_j} \rightarrow \frac{\underline{Q}_j / M_j}{1 + \epsilon_j^{X^*}} + \mu_j \theta_{jg} \frac{\underline{D}_g / M_j}{-\delta_j} $		-1
N	9454	8735
First Stage Statistics		
Anderson-Rubin $\chi^2(10 \text{ df})$	2949.0	2010.0
Anderson-Rubin p-value	0.00	0.00
Kleibergen-Paap weak IV	102.5	937.5

2SLS estimates. DV: Applied Tariff, 2002

Weights on Specific Factors

	Small Country Large Co		Country			
Region	K _r -share	$\frac{\Gamma_r^K}{\Gamma^L}$	K ^M _r -share		κ^X -share	$\frac{\Gamma^{K^X}}{\Gamma^L}$
 New England 	0.023	1.136	0	0		
Mid-Atlantic	0.051	1.314	0	0		
East North Central	0.063	0.899	0	0		
West North Central	0.019	0.941	0.075	4.646		
South Atlantic	0.040	1.019	0.063	2.036		
East South Central	0.024	1.493	0	0		
West South Central	0.023	0.766	0.016	0.675		
 Mountain 	0	0	0	0		
9. Pacific	0.073	1.300	0	0		
Agg./Rel. Weights	0.316		0.154		0.204	3.485

CASE 1: BY GEOGRAPHY - MAIN TAKEAWAYS

Small country case

- Legislative bargain favors mobile factor owners (68.4% of aggregate welfare); owners of sector-specific capital get remainder (31.6%)
- Winners: Pacific (7.3%), E N Central: (6.3%), Mid-Atlantic (5.1%)

Large country case

- Legislative bargain favors mobile (64.2%) and X-specific factors (20.4%); M-specific factors M get 15.4%
- Winners: W N Central (7.5%), S Atlantic (6.3%), W S Central (1.6%); regions with a higher share of specific factors in X-sector (New England, Mountain, Pacific)

HOW IS THIS ANALYSIS RELEVANT TO LAC COUNTRIES?

- · Regional economic diversity and trade policy preferences
 - LAC countries' diverse economies result in varied regional trade policy preferences
 - National tariff-setting models for LAC countries, different regional focus: agriculture vs. manufacturing or services
- Representation of regional interests
 - How are regional disparities, local interests reflected in national policymaking in LAC countries?
- Political consequences of trade policies
 - By identifying winners and losers of trade policy (districts, industries), understand political consequences and potential backlash against globalization in LAC
 - Compensation of districts/industries adversely affected by globalization crucial for maintaining economic, social, and political stability
 - However, limited ability to efficiently and effectively compensate "losers"
- Barriers to compensating losers
 - Political power: winners (large businesses) lobby against redistribution
 - Credibility: promises to compensate are often not credible, causing skepticism
 - Disorganization: losers (consumers, small-scale producers) lack political power and organization
 - Implementation issues: compensation mechanisms may be inefficient or corrupted
- Export interests and protectionism
 - Model accounts for export interests as a counterforce to protectionism
 - Major LAC commodity exporters balance protectionism and export interests

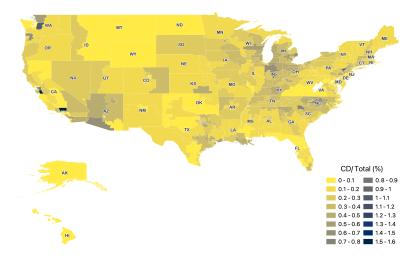
CONCLUDING REMARKS

- 1. Develop a general version of a political economy of trade model which includes fixed factors from importing and exporting sectors
- 2. Advance empirical contributions of the PE of trade
 - Assess how far actual tariffs are from tariff preferences of districts (unmet demand for protection)
 - Exporter influence into domestic import-tariff determination
 - Help understand the political fallout from the China shock
- 3. Estimate implied weights on districts and industries retrieved from observed pattern of protection (around 2000)
- Interests of fixed factors still play an important role in determining US trade policy
 - The structure of trade tariffs reveals an aggregate weight on special interests that is approximately 35% of the aggregate welfare weight
 - Interests of specific factors in exporting sectors obtain about 60% of the total weight on fixed factors (20% of the aggregate welfare weight)
- 5. U.S. exporters ARE highly effective in countervailing the demand for protection by domestic interests in import-competing industries
 - They do so because of the threat of retaliation, internalized by trade policy-making coalitions
 - Also explains why U.S. trade protection is low on average and concentrated in a few industries

ADDITIONAL SLIDES

MANUFACTURING ACTIVITY IS UNEVENLY DISTRIBUTED ACROSS SPACE

Congressional District Share of Total Manufacturing Output (percentage)



DATA

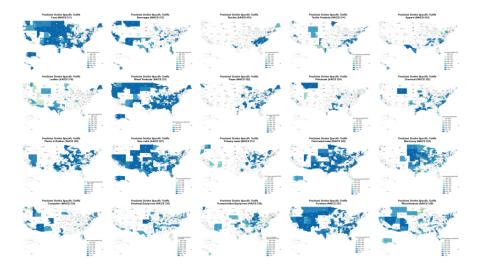
- Data available from different sources, and levels of aggregation (geography, industry) for 2002 (107th Congress)
- Tariffs and imports, M_j: USITC Dataweb; R. Feenstra's site
- NTMs: ad-valorem equivalents of core NTMs at the 6-digit HS level; Kee, Nicita & Olarreaga (2009)
- Import demand elasticities, ϵ_j : Kee, Nicita and Olarreaga (2008)
- Output, q_{ir}, and consumption, D_i^m: County Business Patterns (2002)
 - Data from CBP converted to NAICS 3-digit level and mapped from MSAs and Counties onto the Congressional districts (CDs) for the 107th Congress (2002) for which data is available (433 CDs)
- Employment by type of economic agent, sector, region, n_{jr}^m : County Business Patterns (2002); NBER manufacturing database
- For n_r^K/n_r : compensation of white collar (non-production) and blue-collar (production) workers

TARIFF DATA

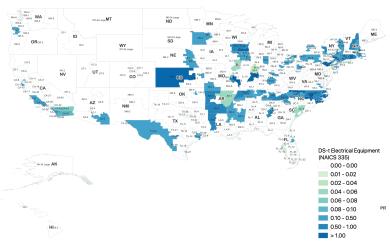
NAICS-3 Industry	Number of	Tariffs	Core NTMs
No. & Label	lines	Average	Average
311 - Foods	966	0.058	0.411
312 - Beverages	74	0.018	0.094
313 - Textiles	606	0.078	0.181
314 - Text. Prods.	211	0.047	0.234
315 - Apparel	584	0.091	0.353
316 - Leather	196	0.115	0.109
321 - Wood	143	0.011	0.172
322 - Paper	139	0.006	0.000
324 - Petroleum	19	0.004	0.000
325 - Chemicals	1,553	0.027	0.051
326 - Plastic	175	0.022	0.005
327 - Non-metal	292	0.039	0.001
331 - Prim. Metal	449	0.019	0.000
332 - Fab. Metal	389	0.025	0.031
333 - Machinery	819	0.011	0.041
334 - Computers	535	0.020	0.061
335 - Elec. Eq.	278	0.016	0.163
336 - Transp.	229	0.013	0.161
337 - Furniture	54	0.004	0.055
339 - Miscellaneous	499	0.024	0.029
Total	8,210	0.037	0.131

Average Ad Valorem 2002 Tariffs and NTMs, 3-Digit NAICS

PREDICTED CD-LEVEL TARIFFS BY NAICS AND CDS



PREDICTED CD-LEVEL TARIFFS BY NAICS AND CDS



Predicted District Specific Tariffs Electrical Equipment (NAICS 335)

ASSUMPTIONS

1. $M_{jr} = M_j \times (n_r/n)$

2. Small country case

- { Γ_{jr}^{m} }, $r = 1, ..., R, j = 1, ..., J, m = {L, K}$ is excessive
- Equal weights across sectors *j* within region *r*: $\Gamma_{ir}^{m} = \Gamma_{r}^{m}$

3. Large country case

- RoW targets its retaliation at a single industry, g: computers (NAICS 334), largest US exports in 2002
- Equal weights on exporters across regions: $\Gamma_r^{\kappa^X} = \Gamma^{\kappa^X}$
- Consider different values of µ_j (robustness)
- 4. Identification strategy: use Bartik-like instruments to address the endogeneity of $\frac{q_{ir}/M_{jr}}{-\epsilon_i}$
- 5. Aggregate districts into R "regions" or coalitions

CASE 2: BY ELECTORAL OUTCOMES

State-wide vote in	House election in CD			Total
Presidential election	Competitive	Safe Dem	Safe Rep	Total
Competitive	17 [0.03]	72 [0.16]	83[0.22]	172
	(0.09)	(0.09)	(0.09)	
Safe Dem	8 [0.02]	75 [0.16]	42 [0.09]	125
	(0.12)	(0.27)	(0.15)	
Safe Rep	5 [0.02]	51 [0.11]	80 [0.20]	136
	(0.05)	(0.12)	(0.06)	
	30	198	205	433 [1.00]
				(0.11)

Distribution of CD seats, employment, and export output

Notes: Each cell in the 3 \times 3 represents "coalition" *r*.

Each cell shows:

(i) The number of districts in the coalition;

(ii) The proportion of manufacturing workforce in brackets;

(iii) The proportion of export industry (NAICS-334 Computers) output in parentheses.

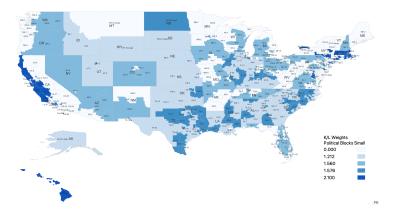
CASE 2: BY ELECTORAL OUTCOMES - SMALL COUNTRY

 κ_r^M Weight Shares (from 2SLS estimates): Small Country model. DV: Applied Tariffs + NTMs, 2002

State-wide Vote in	Districts in House elections			
Presid. Election	Competitive	Safe Dem	Safe Rep	Total
Competitive	0 [0]	0 [0]	0.104 [1.560]	0.104
Safe Dem	0 [0]	0.093 [2.100]	0 [0]	0.093
Safe Rep	0 [0]	0.047 [1.576]	0.073 [1.212]	0.120
Total K _r share	0	0.140	0.177	0.317

Notes: (1) N = 8210. (2) Each cell (coalition r) reports: (i) K_r -share of total welfare weights; (ii) individual Γ_r^K / Γ_r^L ratio in square brackets.

Geographical distribution of Γ_r^K / Γ_r^L weights



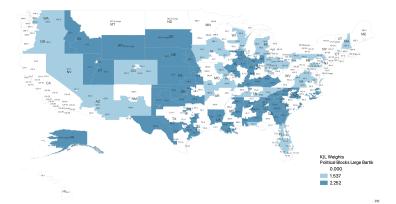
CASE 2: BY ELECTORAL OUTCOMES - LARGE COUNTRY

/ote in Districts in House elections			
Competitive	Safe Dem	Safe Rep	Total
0 [0]	0 [0]	0.081 [1.537]	0.081
0 [0]	0 [0]	0 [0]	0
0 [0]	0 [0]	0.113 [2.252]	0.113
0	0	0.194	0.194
			0.166 [2.906]
	Competitive 0 [0] 0 [0]	Competitive Safe Dem 0 [0] 0 [0] 0 [0] 0 [0]	Competitive Safe Dem Safe Rep 0 [0] 0 [0] 0.081 [1.537] 0 [0] 0 [0] 0 [0] 0 [0] 0 [0] 0 [0] 0 [0] 0 [0] 0 [0]

 K_r^M and K^X weight shares (from 2SLS estimates). DV: Applied Tariffs + NTMs, 2002

Notes: (1) N = 7675. (2) Cells in black: (i) share of welfare weights on import-competing interests K_{ℓ}^{M} ; (ii) individual $\Gamma_{\ell}^{KM} / \Gamma_{\ell}^{L}$ ratio in brackets. (3) Total K^{X} share: (i) aggregate share of welfare weights on export sector interests; (ii) individual $\Gamma_{\ell}^{KX} / \Gamma^{L}$ ratio in brackets.

Geographical distribution of Γ_r^K / Γ_r^L weights



CASE 2: BY ELECTORAL OUTCOMES - MAIN TAKEAWAYS

· Small country case

- Suppose Representative Cliff Stearns is the agenda setter (Chairman of the Commerce, Trade, and Consumer Protection Subcommittee of the powerful Ways and Means Committee, 107th Congress); Stearns represents 6th CD in Florida, a Safe Rep District in the most competitive State for the Presidency in the 2000 election
- Agenda setter proposes an overall level of protection (tariffs + NTMs) that would be approved by: Safe Rep States + Safe Rep District (80); Safe Dem State + Safe Dem District (75); Safe Rep State + Safe Dem District (51); Competitive State + Safe Rep District (83) (Stearns' own group)
- For these groupings of CDs, (Γ^κ_ℓ^M/Γ^L_ℓ) > 1: enough support of a super-majority in Congress (289 districts), making it Presidential veto-proof

Large country case

- Same agenda setter: Competitive State + Safe Rep District (83) (Stearns' own group); and Safe Rep State + Safe Rep District (80)
- Need additional 55 representatives for legislative majority: from CDs with a large presence of specific factor owners in the export industry
- Winning coalition biased towards export interests (producers of computers)

CASE 2: COMPUTERS (NAICS 334) OUTPUT SHARE BY POLITICAL COALITIONS

