The Absence of Consumer Interests in Trade Policy

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Why are some countries more open to trade than others? Prominent explanations emphasize differences in the influence of voters as consumers. Consumers benefit from lower prices. Because governments in democracies are more responsive to voters, they should implement lower tariffs. We develop and evaluate an implication of this line of argument. If lower tariffs are a response to consumer interests, lower tariffs should be concentrated on products most relevant to consumers. Using data on consumption shares across product categories, we report evidence that consumer interests do not account for lower tariffs. Governments place higher tariffs on goods with higher consumption shares, and we find no evidence that this relationship attenuates under more democratic institutions. There may be a variety of reasons why more democratic states are engaged in higher levels of international trade. A larger concern for consumer interests, however, is likely not among them.

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hy are some countries more open to international trade than others? One prominent explanation in the literature emphasizes the influence of voters as consumers. Consumers benefit from lower prices. Where governments are more attentive to the interests of voters, tariff rates therefore should be lower (Ehrlich 2007; Gawande, Krishna, and Olarreaga 2009; Grossman and Helpman 1994; Nielson 2003; Rogowski 1987). This line of argument has, in particular, been used to link democracy and trade openness. Because policy makers in democracies are commonly thought to be more responsive to the interests of voters, tariff rates in democracies should be lower than in autocracies (e.g., Gerschenkron 1944; Kono 2006; Mansfield, Milner, and Rendoff 2002; Milner and Kubota 2005; Mitra, Thomakos, and Ulubasgolu 2002). In this regard, trade politics present a variant of more general arguments: free trade is a public good, and democracies typically provide more public goods (Bueno de Mesquita et al. 2003; Lake and Baum 2001).

We derive and evaluate a key implication of these theories. If liberal trade policy is explained by the interests of consumers, we should observe lower tariff rates on products that have the largest impact on overall prices and are consumed the most; this relationship should be most pronounced in democracies. Thus, by drawing attention to heterogeneity in consumer interests and tariff rates across products, we explicitly address the microfoundation of a prominent explanation of liberal trade policies. To evaluate the proposition, we leverage consumer price indexes to obtain data on the share of a representative consumer’s spending across product categories. Consumer price indexes have some attractive features for our purposes. They capture the spending of a representative consumer, who as the median voter is the relevant actor in seminal theories of policy making. And the indexes identify products on which higher prices—such as through tariffs—affect consumers the most, even if consumers are only concerned with, or able to identify, overall price levels. We match the data from consumer price indexes with two-digit Harmonized System (HS) tariff data. This approach allows us to leverage within-country variation in political institutions and across-product variation in consumer interests.

We report evidence that consumer interests are not only not reflected in tariffs but systematically violated; democratic institutions do little to change that. Products that are consumed more heavily are protected by higher, not lower, tariff rates. A 1 percentage point increase in a product’s consumption share is associated with tariffs that are 25%–40% higher than the average tariff. We find no evidence that this relationship is weakened under democratic institutions. Instead, it becomes stronger. Products that are consumed more heavily are associated with higher tariff rates under democratic insti-
tutions. Similarly, even when democratic institutions result in lower tariff rates, the effect is confined to products with small consumption shares and a small share of overall consumption. For products that make up a large fraction of consumption, democratic institutions are associated with higher tariff rates.

The findings have broad implications for the literature on trade politics. Most immediately, they raise skepticism about the causal chain between democratic institutions and trade openness and about the sources of liberal trade policy. There might be a variety of reasons why more democratic states are engaged in higher levels of international trade. A larger concern for consumer interests, however, is likely not among them.

By highlighting that consumer interests seem to play little role in determining tariff rates, our results reinforce existing doubts about the ability of consumers to influence trade politics. While voters tend to prefer lower tariffs (Baker 2005), they do not seem to push for lower tariffs explicitly, as evidenced by the low electoral salience of trade policies (Guisinger 2009) and expected from collective action arguments (Pareto 1927). We find that, additionally, governments do not even take consumer interests into account implicitly. On the one hand, these findings are perhaps not too surprising, considering that voters are frequently ill informed about the distributional consequences of free trade and that the distributional consequences of trade policy may, in the eyes of voters, be offset by ethnocentric and sociotropic concerns (Mansfield and Mutz 2009). But on the other hand, these findings raise questions about one of the central theoretical claims, and one of the bedrock empirical findings, in the international political economy literature: that democracies are more open to trade because of the effects of tariffs on voters as consumers.

More generally, the link between democratic governments and trade openness has been interpreted as evidence that democracies provide more public goods than autocracies in response to voter interests. Our results do not support this interpretation. Democracies may well provide more public goods than autocracies. But to account for lower trade barriers in democracies, a different explanation is needed. We propose one such explanation, based on pro-trade lobbying from multinational corporations, exporting firms in the context of trade agreements, and firms in global value chains. These have long been recognized as important supporters of free trade policies on individual products (see, e.g., Betz 2017; Gawande, Krishna, and Olarreaga 2012; Gilligan 1997; Milner 1988). Yet, such pro-trade lobbying has not been used to account for systematic differences in trade openness across countries—and, as we elaborate below, doing so requires different assumptions about the role of democratic institutions in mediating between voter interests and special interest groups, and it results in different explanations of why democracies are more open to trade than nondemocracies.

**CONSUMERS AND TRADE POLICY**

To derive expectations for consumers’ impact on trade policy, we build on a set of stylized assumptions that is standard in political economy models: in setting tariff rates, the government balances the interests of voters as consumers and of import-competing firms; political institutions shape this balance. Voters as consumers, and hence the mass public, benefit from lower prices and therefore lower tariffs. This assumption is standard in formal political economy models (Ehrlich 2007; Grossman and Helpman 1994; Kono 2006; Rogowski and Kayser 2002), informal accounts of trade politics (Alt et al. 1996; Rogowski 1987), and empirical applications (Linzer and Rogowski 2008), and it is supported by survey evidence (Baker 2003, 2005). This is not to say that consumers always prefer free trade. Consumers are often poorly informed about the benefits of trade liberalization (Mansfield and Mutz 2009), trade preferences may not be sufficiently salient to affect electoral outcomes (Guisinger 2009), and consumers may prefer nontariff barriers in the form of health and safety standards (Charnovitz 1992). But, especially with respect to tariff barriers, the baseline assumption in the literature has been that consumers are better off with free trade than with protectionism, not least because voters follow their pocketbook (Mansfield, Milner, and Rosendorff 2000). Thus, the assumption that voters prefer lower tariff rates is certainly not true universally, but it serves as an important and plausible assumption in the literature.

While the collective costs of protectionist trade policies are vast, the costs to individual consumers are relatively small and dispersed. By contrast, the benefits of tariffs, which shield import-competing firms from foreign competition, are concentrated (Pareto 1927). This creates collective action differentials between voters and interest groups, advantaging the latter. Theories of trade politics thus share many characteristics of theories of public goods—free trade benefits the population as a whole but is underprovided due to its dispersed benefits and nonexcludability. Consequently, trade policies exhibit a protectionist bias.

This protectionist bias is not uniform across countries. Political institutions that insulate governments from interest group pressure and that increase their responsiveness to voter interests should be associated with more public goods (Bueno de Mesquita et al. 2003; Lake and Baum 2001) and consequently less protectionist trade policies. This insight gave rise to a rich literature on the institutional determinants of trade policies. Where governments are more responsive to voter interests, such as in democracies, tariffs should be lower.
(e.g., Gawande et al. 2009; Milner and Kubota 2005; Mitra et al. 2002; Rogowski 1987; Rogowski and Kayser 2002). The key feature of democracies in these models is open political competition over a large number of votes. This drives policy makers to provide more public goods and reduces the influence of interest groups. Additionally, political competition drives policy makers to point out high tariff rates, raising knowledge about trade policy and allowing voters to hold politicians accountable (Kono 2006).1

In sum, this literature presents an intuitive argument: free trade arises because voters, as consumers, are better off with free trade and the resulting lower prices. Where voters have more influence over policy making, free trade consequently is more likely to occur. This is not to say that other explanations of free trade do not exist. For instance, following Heckscher-Ohlin and Stolper-Samuelson theory, voters (as owners of labor) in developing countries should prefer free trade; because democracies empower voters, democracies in developing countries should be more open to trade (Milner and Kubota 2005). To stay close to the existing literature on democracy and trade, and to distinguish an explanation based on consumer interests from other explanations, we abstract from these alternative explanations in the following discussion.

We follow the literature’s focus on consumers and democracy’s higher regard for consumers as voters as drivers of more open trade regimes in democratic countries, and we derive another implication of this line of argument: if consumers account for liberal trade policies, we should expect systematic differences in trade policies within countries and across products according to the extent to which products matter to consumers. To demonstrate that this implication follows from a standard theoretical framework, we present a simplified model of trade politics that forms the basis of much of the literature. The model necessarily abstracts from many complications, which allows us to focus on the relationship between consumers and trade policies. Using this model, we first derive the standard result—when policy makers are more responsive to consumers, average tariffs should be lower—and then derive implications for tariff levels across products.

We represent voter utility from consuming good i as a function c_i(p_i), where the price p_i of product i ∈ {1, 2, ..., N} is a function of tariff rates, t_i ≥ 0, such that the domestic price is the global price plus the tariff rate, p_i = p_i^* + t_i. To simplify notation, we assume p_i^* = 0, such that p_i = t_i. Because voters prefer lower prices, it follows that their utility decreases as prices increase, and therefore c_i(p_i) < 0. Additionally, we assume that c_i'(p_i) ≤ 0, such that the costs of raising prices are increasingly painful to voters, and that c_i''(p_i) = 0.2

Producers that compete with imports from abroad prefer protectionist trade policies. Tariffs raise their profits and increase their competitiveness. Producers value profits, π_i(p_i). We assume that profits increase in the price of good i at a decreasing rate, such that π_i'(p_i) > 0, π_i''(p_i) < 0, and π_i'''(p_i) = 0, and that the profit function satisfies the usual Inada conditions to guarantee an interior solution. Producers are able to lobby the government for higher tariffs, which is reflected in the government’s utility function. Government utility is given by Γ = αΣc_i(p_i) + Σl_i(p_i), where l_i(p_i) is firm lobbying for higher tariffs on product i, and α represents the extent to which the government values the interests of the public, or of voters as consumers, relative to lobbying contributions. The larger is α, the more the government is concerned with satisfying voters and the less dependent it is on individual interest groups relative to the mass public.

This formulation of government preferences makes no presumption that voters lobby for tariffs, that voters cast their ballots solely on the basis of tariff rates on individual products, that voters engage in political activity as a unified group, or that governments give more weight to voter interests than to lobbying. The government utility function only assumes that the government takes consumer interests into account implicitly when setting tariff rates and trades off these consumer interests with lobbying by producer interests. For instance, voters are plausibly concerned with overall price levels and decrease their support for the government as consumer prices go up (Hibbs 1977; Rogowski and Kayser 2002); tariffs provide a tool for governments to affect price levels directly and quite easily. Thus, governments have incentives to maintain lower tariffs, even if voters are not able to identify tariff rates on individual products (see, e.g., Mansfield et al. 2002).

We restrict the model to truthful equilibriums, such that each firm’s marginal lobbying contribution corresponds to that firm’s marginal profit (Grossman and Helpman 1994). These strategies produce the same result as the government maximizing a weighted sum of consumer interests and producer profits. It follows that the tariff rate chosen by the government on product i, t^*_i, is implicitly defined by

\[-αc_i'(t^*_i) = π_i'(t^*_i).\] (1)

1. By a similar logic, institutional differences within democracies—such as the electoral rule or the distinction between parliamentary and presidential systems—should also account for differences in trade policies (see, e.g., Ehrlich 2007; Nielson 2003; Rogowski 1987). However, this literature does not suggest that some types of democracies should be less responsive to consumers than autocracies and therefore have higher tariffs.

2. These assumptions follow, e.g., from a spatial model with quadratic utility functions (Mansfield et al. 2000).
The equilibrium tariff defined in equation (1) replicates two insights from the extant literature discussed above. First, trade policies exhibit a protectionist bias: tariff rates are higher than consumers prefer because protectionist interest groups push tariffs upward through lobbying. Second, this protectionist bias is shaped by the parameter $\alpha$. The protectionist bias should be most pronounced where concentrated interest groups have more influence over policy making (where $\alpha$ is small). Conversely, lower tariffs result where voters have more influence and where governments are better insulated from interest group pressure (where $\alpha$ is large). Consequently, and as discussed above, where institutions increase the government’s responsiveness to voter interests, such as in democracies, tariffs should be lower.

We highlight a third implication of the model, which yields predictions across products: for products on which price changes have a larger effect on consumers, tariffs should be lower; this effect should be strongest in democracies. This implication is at the core of common explanations of an aggregate association between democracy and free trade. For instance, Nielson (2003, 472) links voters to lower tariffs because “free trade produces public goods when it comes to consumption.” Similarly, early free trade policies in Germany and England reflected “primarily the interest of the urban consumers” (Gerschenkron 1944, 35). And Kono (2006, 370) emphasizes that the association between democracy and free trade arises because democracy “enfranchises and informs voters-as-consumers and should thus provide a double impetus for trade liberalization.”

We therefore leverage the often substantial variation in tariff rates across products and in how these tariffs affect consumers. Formally, the implication follows directly from equation (1). For products that are important to consumers, consumer utility $c_i(t_i)$ is more sensitive to the tariff rate, which implies that $c'_i(t_i)$ is large in absolute value. By contrast, products that are of relatively little value to consumers are characterized by a relatively flat function $c_i(t_i)$. Put differently, for products that are less important to consumers, price changes are likewise less important to consumers. Analogously to producers, the degree to which consumer interests are at stake is represented by the steepness of the function $c_i(t_i)$.

From the equilibrium tariff rate in equation (1), it follows that we should observe lower tariffs on products that affect consumers more. Consider two products, $i$ and $j$, where product $j$ is more relevant to consumers than product $i$. Because $c'_i(t_i) < c'_j(t_j)$, equation (1) implies that the equilibrium tariff rate is lower for product $j$ than for product $i$. This effect is illustrated in figure 1. The downward-sloping line represents the right-hand side of equation (1), $\pi'$. The dashed upward-sloping line represents the left-hand side of equation (1), $-\alpha c_i$. The intersection of the two lines determines the equilibrium tariff rate $t^*_i$ for product $i$. For products that are more important to consumers, the dashed line shifts upward, as indicated by the dash-dotted line, $-\alpha c_i$. This upward shift pushes down the new equilibrium tariff rate. The effect is similar to a change in political institutions (i.e., a change in $\alpha$). The key difference between the two effects is that an increase in $\alpha$ affects all products within a country. Accordingly, the empirical literature has focused on differences in average tariff rates across countries. By contrast, a change in a product’s relevance to consumers affects that specific product, such that tariff rates should vary systematically across products.

Hence, tariffs on different goods should affect consumers differently. Substantively, tariffs should have larger effects on consumers for products that make up a larger share of an individual’s consumption. Consumption shares reflect consumer interests regardless of whether consumers are able to distinguish tariffs (and prices) on individual products or whether they are more concerned with overall price levels. Both perspectives have the same implication. If consumers pay attention to tariffs on individual products, tariffs on products with larger consumption shares are more salient because a larger share of spending is affected directly. But even if consumers focus only on aggregate price levels, not prices on individual products, the same implication follows: tariffs on products with larger consumption shares have larger and more direct effects on overall price levels.

This follows from the way common measures of aggregate price levels—such as the widely reported consumer price indexes used to determine inflation rates—are calculated. To arrive at measures of aggregate price levels, central banks or national statistical offices use survey data to obtain the share of a representative consumer’s spending on different products. These consumption shares are then used as weights on the prices of individual products to create an aggregate price level. If the government levies a tariff on a product, the effect on the aggregate price level is therefore a function of that product’s consumption share: tariffs on products with larger consumption shares have larger and more direct effects on price levels than tariffs on products with smaller consumption shares, and consequently they are less attractive tariff targets to policy makers concerned with consumers. Lower tariffs should be...
concentrated on products that have the largest effects on prices, which are those products that are consumed the most. This implication is specific to explanations that link overall lower trade barriers to consumer interests: if lower tariffs are not concentrated on products that have the largest effects on prices, democracies may well have overall lower tariffs, but these lower tariffs are not a response to consumer interests.

Of course, any tariff has the potential to increase prices for consumers, including tariffs on intermediate goods that are not part of the consumption basket. We make no claim that consumer interests are only affected by tariffs on goods that are consumed directly. However, if policy makers respond to consumer interests, they should lower tariffs on both inputs and goods that are consumed directly, and they should lower tariffs at least as much on consumption goods as on other goods. Maintaining higher tariffs on goods that are consumed directly would defeat the purpose of lowering prices and in particular of lowering aggregate price levels. Additionally, because tariffs on intermediate products affect consumers only indirectly, such tariffs may allow governments to engage in some amount of obfuscation and to reap rents from protecting domestic interest groups without alienating voters (Kono 2006)—explaining how lower tariffs on intermediate goods achieves lower prices is complex, whereas explaining how higher tariffs on consumption goods drives up costs for citizens is straightforward.

Note that we follow the literature in assuming that tariffs are driven by the political conflict between voters and import-competing groups. However, many product tariffs have been affected by international trade negotiations, which encouraged exporter lobbying for domestic trade liberalization in exchange for market access abroad. This effect creates an important constituency that shares consumers’ preferences for lower tariffs (Gilligan 1997). Recognizing this, governments can negotiate trade agreements to tie their hands toward protectionist demands and achieve lower prices for voters. Thus, trade agreements can be an important component of trade liberalization. However, the negotiation of trade agreements should not systematically affect the association between consumption shares and tariff rates across products. If governments negotiate trade agreements to achieve lower prices for voters, trade liberalization is driven by consumer interests, and the same expectation—higher consumption shares should correlate with lower prices—follows. All products may be affected by tariff cuts, but the resulting tariff rates should proportionally correspond with consumer interests.

In sum, common explanations of free trade emphasize that, where consumers are more politically relevant, aggregate price levels and average tariffs should be lower. We emphasize a product-level implication of this same line of argument: products for which tariffs have a larger effect on aggregate price levels and consumers should have lower tariffs, which are products with larger consumption shares. The first proposition follows.

**Proposition 1.** Tariffs decrease in the consumption share of a product: tariffs are lower for products that make up a larger consumption share.

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5. Moreover, even when taking other motivations for negotiating trade agreements into account, many trade negotiations are initiated with formulaic (such as linear) cuts across most or all product lines that correspond to equivalent concessions; only then are exceptions carved out. This reduces the possibility that trade agreements affect the association between consumption shares and tariff rates systematically.
From equation (1), it further follows that the strength of the association between consumption shares and tariffs is conditional on the institutional environment, $\alpha$. Where the government has little concern for consumers, the effects of differences in consumer interests across products are muted. Where the government is more invested in the interests of voters, consumer interests have a larger effect on tariff rates. Governments provide lower tariffs on products with large consumption shares, and this should especially be the case in environments where governments care about consumers. Following extant theories, democracies should be more responsive to consumers. While larger consumption shares should always result in a reduction in tariff rates, this effect should be strongest under democratic institutions, as noted in the following proposition.\(^6\)

**Proposition 2.** Democratic institutions reinforce the negative association between tariffs and a product’s consumption share: the negative effect of consumption shares on tariffs further decreases as institutions become more democratic.

The flip side of this argument is that the negative association between democratic institutions and tariff rates should be concentrated on those products that matter the most to consumers. Democratic institutions should result in lower tariff rates, and this effect should be most pronounced for products with large consumption shares.

**EMPIRICAL RESULTS**

To obtain a measure of consumption shares of individual products, we leverage data used in the construction of consumer price indexes (CPIs). The typical use of the CPI is to calculate changes in the overall price level over time to measure inflation. The CPI calculates the current, aggregate price for a basket of goods, with weights on each of the goods in the basket determined by national statistical offices. Products that make up a larger share of consumption obtain larger weights—prices on these goods have more influence on the purchasing power of a representative consumer. The interests of the representative consumer are also crucial for determining tariff rates in theoretical models of trade policy making, which makes these weights suitable for our purposes. For products that make up a larger share of consumption, higher tariffs affect consumers more. Even if voters are mostly concerned with overall price levels, and do not track prices or tariffs on individual products, the CPI identifies the products for which higher tariffs increase price levels the most.

While statistical offices commonly release the development of price indexes over time, they usually do not release data on the weights on specific product categories. Even when weights are available, they often are available only in aggregated, non-standardized categories. Moreover, matching these data to tariff rates is often ambiguous and not immediately comparable across countries. We therefore focus our analyses on a small number of countries where such data are available and where we observe within-country variation in domestic institutions.

Our main results focus on Mexico, which has been described as a “prime case” for the argument that democracy and trade liberalization go hand in hand (Milner 1999, 104). Mexico has experienced an increase in political competition and an attendant increase in common measures of democratic governance during the 1990s, with the formerly dominant Partido Revolucionario Institucional losing power for the first time in over 70 years. This is reflected in Mexico’s polity score (Marshall and Jaggers 2006), which captures the extent of political competition and is a common measure of the strength of voter interests in the empirical literature on trade (e.g., Kono 2006). The variable takes values from −10 to 10, where higher values denote more democratic countries. Mexico moved gradually from a score of 0 in 1991 to a score of 8 in 2000, remaining at that score thereafter. Because our main results rely on within-country variation, we avoid problems associated with comparability in cross-country regressions, and our results implicitly control for alternative country-specific explanations of trade flows and trade policies, such as exchange rate regimes and levels, financial flows, and membership in international institutions.

In additional results, we draw on data from countries acceding to the European Union (EU) in its fifth round of enlargement—Cyprus, the Czech Republic, Estonia, Hungary,
Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia (in 2004), and Bulgaria and Romania (in 2007)—which have the advantage of providing data on consumption shares in a unified, detailed format; some of the countries also experienced democratic transitions during the 1990s. We also provide results from a larger cross-section of up to 73 countries and a data set of Organization for Economic Cooperation and Development (OECD) members, and we extrapolate the consumption data from Mexico to Central American countries. While these cross-section data sets are of lower quality, they serve to corroborate the main results. We again control for other determinants of trade policies in these samples or include country fixed effects to leverage only within-country variation.

Mexico’s statistical office, Instituto Nacional de Estadística y Geografía, publishes data on consumption weights on different products. The latest edition of the data is from 2010. To evaluate proposition 1, we match the consumption share data to 2010 tariff data. The resulting data set has one observation per product, for a total of 96 observations. We were not able to match 12.9% of tradables, which introduces some measurement error. For many observations, the consumption share is 0 because these products are not consumed by households. Following proposition 1, we expect lower tariff rates for products with larger consumption shares and, therefore, a negative coefficient on the variable on consumption shares. Figure 2 displays the consumption shares across all product categories with positive consumption shares. The appendix (available online) lists all product categories and their associated consumption shares.

To evaluate proposition 2, we impose the consumption share data from 2010 to earlier and later years. This allows us to leverage, within a single country, variation across years in political institutions as well as variation in tariffs across product categories. We interact the variable on consumption shares with the polity score (Marshall and Jaggers 2006). Following proposition 2, we expect a negative coefficient on the interaction between consumption shares and the polity score: the negative association between consumption shares and tariffs should be reinforced as a country’s political system becomes more democratic.

This strategy has two major drawbacks. First, it presumes that consumption shares from 2010 apply equally to earlier and later years. That consumption shares tend to move slowly and are accordingly revised rarely helps alleviate this concern (e.g., the 2010 data for Mexico are still in use).7 Second, the movement toward democratic institutions in Mexico during the 1990s coincided with major reforms to Mexico’s tariff regime through the implementation of the North American Free Trade Agreement (NAFTA), which entered into force in 1994 and successively eliminated most tariffs with its most important trading partner, the United States. Below, we show that our results also hold when using the most favored nation tariff rate (which was not affected by NAFTA) and when accounting for US export interests.

Mexico: Consumption shares and tariff rates

Figure 3 displays Mexican tariff rates and consumption shares on all product categories with positive consumption shares. The graph indicates product categories by two-digit codes. Tariff rates in Mexico range from 0% to about 52%. The average tariff rate across all product categories is about 10%. The figure points to two potential outliers in the data: product categories 2 (meat products) and 27 (mineral fuels). Figure 3 suggests no obvious negative relationship between consumption shares and tariffs. The Spearman correlation coefficient, which is robust to outliers, instead indicates a statistically significant positive correlation for the full sample ($\rho = .310, p = .002$).

Table 1 presents coefficient estimates and $p$-values from regression models evaluating the relationship between tariff rates and consumption shares. Column 1 reports the estimates from an OLS model, including no other covariates, with standard errors robust to heteroskedasticity. Contrary to expectations, products with higher consumption shares have higher, not lower, tariff rates. Column 2, and all models that follow, further controls for log imports (in thousand US dollars) in the specific product category (obtained from WITS/UN Comtrade). Products were imported in all categories, such that no observations drop out after the log transformation. This variable accounts for protectionist interest groups, which should seek protection for goods with substantial import penetration. In our sample, the correlation coefficient between consumption shares and log imports is .340.

Including log imports increases the magnitude and precision of the coefficient on consumption shares, with the overall effect of substantially increasing the statistical significance of the coefficient estimate. A 1 percentage point increase in the consumption share increases the tariff rate on that product category by 2.76 percentage points, which corresponds to about a 25% increase relative to the sample average. A 1 standard deviation increase in the consumption share increases the tariff rate by about 30%. In sum, the data provide no support for the negative relationship between consumption shares and tariffs, postulated by proposition 1, that we expect if consumer interests account for liberal trade policies.

In what follows, we address a number of empirical challenges and alternative explanations. We report in the ap-

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7. While we do not have data from Mexico that go back in time, data from India suggest stable patterns at the level of aggregation we use. The correlation coefficient between the 2001 weights and the 1982 weights for the Indian CPI is .96. The average difference between the two weights series is less than .12 percentage points. For over 90% of product categories, the difference is less than 1 percentage point.
Appendix that the positive coefficient on consumption shares remains when replacing the dependent variable with the trade-weighted average tariff (which gives a crude measure of a category’s relevance), with the number of tariff peaks in each product category (which provides a measure of extreme forms of protectionism), or with tariff water (which helps to account for constraints by trade agreements and evaluates whether governments use the permissible policy space).

**Extreme tariffs.** As shown in figure 3, product categories 2 (meat products) and 27 (mineral fuels) are potential outliers in the data. Table 1 column 3 drops these two categories, which

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Figure 2. Consumption shares across two-digit tariff categories, Mexico, 2010, for product categories with positive consumption shares

Figure 3. Tariff rates and consumption shares for Mexico, 2010. Tariff data from World Integrated Trade Solution, consumption share data from Mexico’s national statistical office. Products with zero consumption share are omitted.
results in an increase in the coefficient on consumption shares. Alternatively, quantile regression at the median is less sensitive to outliers than a linear regression at the mean. The coefficient estimate again increases (reported in the appendix).

Another concern is that the two-digit product categories occasionally include a small number of exceptionally high tariff rates on individual products. In that case, the two-digit average gives a distorted impression of the category average. We disaggregate the tariff data at the six-digit level to identify individual products with unusually high tariff rates. We then drop observations with tariff rates above 250%, above 200%, or above 100%. In additional results, we drop observations with tariff rates at the zero bound. The positive association between consumption shares and tariff rates remains.

**Industry structure.** The results may be driven by a correlation between consumption shares and industry characteristics. Intra-industry trade can be a facilitator of trade liberalization (Lipson 1982). Higher tariffs on products with higher consumption shares may therefore be due to a lack of intra-industry trade. We calculate the standard Grubel-Lloyd index of intra-industry trade, using WITS data on imports and exports, and include the variable in the empirical model in table 1 column 4. The positive, significant coefficient on consumption share remains. Intra-industry trade has no significant association with tariffs. In the appendix, we report that the results are also robust to using instead a dummy for intermediate goods or when including a control variable for exports.

Demand elasticities may be an important determinant of tariff rates. If consumption products have a lower demand elasticity, tariffs may be higher on these products to raise revenue. As we report in table 1 column 5, the positive association remains after including logged demand elasticity (Kee, Nicita, and Olarreaga 2009). Larger consumption shares may also be correlated with larger industries, which are better able to lobby for protection. Because data on industrial production are not available in the HS classification and at the level of disaggregation we use, we rematch the data to the International Standard Industrial Classification (ISIC) categorization. Data on industrial production in ISIC format are available from the OECD Structural Analysis Database. Trade data in the ISIC format are available from WITS. Column 6 shows that higher consumption shares remain associated with higher tariffs.

**Endogenous imports.** Imports are potentially endogenous to the tariff rate, which would result in biased estimates of both coefficients. The appendix presents results from several instrumental variable models, using the exchange rate of the Mexican peso, exchange rate pass-through at the product level, the two variables and their interaction, or lagged logged imports as instruments for current imports. The coefficient on consumption shares remains positive and statistically significant in all cases.

| Table 1. Mexico: Tariffs and Consumption Shares |
|----------------|----------------|----------------|----------------|----------------|----------------|
|                | (1)            | (2)            | (3)            | (4)            | (5)            | (6)            |
| Consumption share | 2.02           | 2.76**         | 3.55***        | 2.77**         | 2.48**         | 1.01**         |
|                  | (.119)         | (.025)         | (.004)         | (.027)         | (.049)         | (.034)         |
| Log imports      | -1.34***       | -1.26***       | -1.36***       | -1.25***       | -1.70          |
|                  | (.001)         | (.001)         | (.002)         | (.000)         | (.434)         |
| Intra-industry trade | .390         |                |                |                |                |
|                  |                | (.902)         |                |                |                |
| Log elasticity   |                |                |                |                | 1.67           |
|                  |                |                |                |                | (.103)         |
| Log output       |                |                |                |                |                | -1.58          |
|                  |                |                |                |                |                | (.516)         |
| Constant         | 9.42***        | 26.9***        | 25.6***        | 26.8***        | 23.3***        | 72.2           |
|                  | (.000)         | (.000)         | (.000)         | (.000)         | (.000)         | (.153)         |
| N                | 96             | 96             | 94             | 96             | 94             | 30             |


** Signiﬁcant at 5%.
*** Signiﬁcant at 1%.
Food products. Food products constitute a large share of consumption. On the one hand, the incentives to lower tariffs on food products to lower consumer prices should therefore be particularly pressing. On the other hand, trade policy on food products is often subject to strong lobbying pressures from the agricultural sector. Additionally, while consumers benefit from lower prices on food products, they may prefer protectionist measures out of concerns over food quality and safety (as evidenced in recent debates in several EU countries over trade policy). While most of these demands should translate into nontariff barriers, rather than tariff barriers (see Athukorala and Jayasuriya 2003), contentious politics over food products may distort the results. An additional concern is presented by international institutions: with the Uruguay Round, governments agreed to convert nontariff barriers to tariffs, which could then be negotiated analogously to other tariff barriers. We therefore drop food products from the sample; alternatively, we include a control variable for food products. The results, reported in the appendix, are robust to these modifications.

NAFTA. The results could be driven by NAFTA negotiations and power differentials during these negotiations. US negotiators had incentives to push for lower tariffs on product categories with US export interests. If US exports fall predominantly into categories with low consumption shares, the observed correlation may be due to NAFTA. We first replace the dependent variable with the applied most favored nation tariff rate, which does not account for preferential schemes and therefore is not affected by NAFTA. Second, we return to the effectively applied tariff rate as a dependent variable and include the share of imports from the United States to account for US pressure for tariff reductions. Third, we replace the dependent variable with a weighted average of applied tariff rates and the preferential tariff rate toward the United States, with import shares from the United States as weights. The positive association between consumption shares and tariffs remains across these models (reported in the appendix).

We also extend the consumption share data from 2010 to earlier and later years and interact it with a dummy variable for NAFTA, coded 0 in years before 1994 and 1 starting in 1994. Before NAFTA, higher consumption shares had no statistically significant association with tariffs. The relationship becomes stronger and statistically significant after 1994. While NAFTA reduced tariff rates, this effect is confined to products with consumption shares below .527%, and products below this category account for less than 4% of consumption. For products with consumption shares above .527%, which constitute almost all coded product categories with positive consumption shares, NAFTA resulted in higher tariffs.

Shortcomings of consumption data. The construction of the CPI is based on urban households. If rural and urban populations have different spending patterns, the above results could show that trade politics is biased against urban consumers but perhaps in favor of rural consumers. Given the often stipulated political bias toward urban populations (Bates 1981), the reported pattern would be even more surprising: a concomitant urban political bias and bias in the construction of the CPI should reinforce the expected negative correlation in the data. Nonetheless, it is plausible that the relative spending of urban and rural consumers differs. We coarsen the variable on consumption shares by coding it 0 for product categories with a consumption share of 0 and 1 for product categories with positive consumption shares. If urban and rural consumers purchase products from similar categories, this coarsened measure is applicable to both groups. The results remain robust to this change.

A second concern is that the data fail to capture crucial aspects of consumer behavior. Consumers might be more aware of price changes on products that are purchased frequently. Because we lack data on the frequency of purchases across categories, we use data on the unit value of imports (per item or per kilogram) from WITS. We calculate the product category average and include its logged value as an additional variable. Products with smaller unit values (and presumably higher purchasing frequency) are also associated with higher tariffs; the coefficient on consumption shares remains positive and significant (reported in the appendix).

Mexico: Tariffs and democratization

Table 2 reports models evaluating proposition 2. We extend Mexico’s 2010 consumption shares from 1991 to 2012 and cluster standard errors by product categories. Column 1 interacts the polity score with the variable on consumption shares; we expect a negative coefficient on the interaction term. The results provide no support for this expectation. The association between consumption shares and tariffs increases, rather than decreases, in Mexico’s polity score. The moderating effect of political institutions is statistically significant (the p-value on the interaction term is .032) and substantially notable as well, as shown in table 3. The effect of an increase in consumption shares on tariff levels doubles from about 1 percentage point at a polity score of 0 to over 2 percentage points at a polity score of 8. Across all levels of the polity score, tariffs increase in consumption shares, although the effect misses significance at the 5% level when Mexico’s polity score is 0. The correlation holds when including year and year2 to account for common time trends (table 2 col. 2).
Consistent with the existing literature, democratic institutions are associated with lower tariffs. However, this negative effect is confined to product categories with small consumption shares and cumulatively accounts for a small share of consumption. For products with a consumption share above .8%, the negative effect is no longer statistically significantly different from zero. For products that make up a share of at least 2.5%, the effect turns positive (although it is not statistically significantly different from zero).

Not only are the negative effects of democratic institutions confined to products with small consumption shares, but these products cumulatively only account for a small share of consumption. Specifically, the effect is statistically significantly different from zero for only 4.8% of cumulative consumption; for another 11.4% of cumulative consumption, the effect is negative but not statistically significantly different from zero. For the remainder of the consumption basket, the effect of democracy on tariff rates is positive. Democratic institutions appear to be associated with lower tariff rates only for products that are of relatively little value to consumers and that cumulatively account for a small share of consumption. Democratization increases tariffs for the majority of the consumption basket and, in particular, on products that are consumed most heavily.

Democratization in Mexico coincided with major reforms to the tariff schedule in the context of NAFTA. Table 2 contains regression results for the effect of democracy on tariffs.

Table 2. Mexico: Tariffs, Consumption Shares, and Democracy

<table>
<thead>
<tr>
<th>Consumption share</th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.04*</td>
<td>.95*</td>
<td>1.03*</td>
<td>1.04*</td>
<td>.74*</td>
</tr>
<tr>
<td></td>
<td>(.057)</td>
<td>(.080)</td>
<td>(.059)</td>
<td>(.057)</td>
<td>(.083)</td>
</tr>
<tr>
<td>x polity</td>
<td>.14**</td>
<td>.13**</td>
<td>.14**</td>
<td>.13**</td>
<td>.33**</td>
</tr>
<tr>
<td></td>
<td>(.032)</td>
<td>(.038)</td>
<td>(.033)</td>
<td>(.033)</td>
<td>(.041)</td>
</tr>
<tr>
<td>Polity</td>
<td>-.34***</td>
<td>4.56***</td>
<td>-.72***</td>
<td>-.30***</td>
<td>.11</td>
</tr>
<tr>
<td></td>
<td>(.002)</td>
<td>(.000)</td>
<td>(.000)</td>
<td>(.003)</td>
<td>(.559)</td>
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<tr>
<td>Log imports</td>
<td>-.99***</td>
<td>-.80**</td>
<td>-.98***</td>
<td>-1.05***</td>
<td>-.90**</td>
</tr>
<tr>
<td></td>
<td>(.003)</td>
<td>(.014)</td>
<td>(.003)</td>
<td>(.000)</td>
<td>(.019)</td>
</tr>
<tr>
<td>Year</td>
<td>-5.44***</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(.000)</td>
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<td></td>
<td></td>
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<tr>
<td>Year²</td>
<td>.12***</td>
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<td></td>
<td>(.000)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAFTA</td>
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<td>4.58***</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>(.000)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US import share</td>
<td></td>
<td></td>
<td></td>
<td>1.11</td>
<td>(.694)</td>
</tr>
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<tr>
<td>Constant</td>
<td>26.9***</td>
<td>42.5***</td>
<td>25.0***</td>
<td>26.7***</td>
<td>24.5***</td>
</tr>
<tr>
<td></td>
<td>(.000)</td>
<td>(.000)</td>
<td>(.000)</td>
<td>(.000)</td>
<td>(.000)</td>
</tr>
</tbody>
</table>


* Significant at 10%.
** Significant at 5%.
*** Significant at 1%.

Table 3. Mexico: Marginal Effect of Consumption Share

<table>
<thead>
<tr>
<th>Polity Score</th>
<th>0</th>
<th>4</th>
<th>6</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marginal effect</td>
<td>1.04</td>
<td>1.58</td>
<td>1.85</td>
<td>2.12</td>
</tr>
<tr>
<td>95% confidence interval</td>
<td>-.033, 2.11</td>
<td>.129, 3.03</td>
<td>.187, 3.51</td>
<td>.237, 4.01</td>
</tr>
<tr>
<td>p-value</td>
<td>.057</td>
<td>.033</td>
<td>.030</td>
<td>.028</td>
</tr>
</tbody>
</table>

Note. Marginal effect of a 1 percentage point increase in consumption share, with 95% confidence interval and p-value, based on col. 2, table 2. Years are those for which the respective polity score appears in the data set.
ultimately 3–5 offer models to address this concern. Column 3 includes a control variable for the years 1994 onward, when NAFTA was in effect. Column 4 controls for the share of imports from the United States to account for US export interests. Column 5 uses the most favored nation tariff rate, which was unaffected by NAFTA. The positive, statistically significant coefficient on the interaction term remains in all models.

In sum, these results provide no support for the notion that liberal trade policy is driven by consumer interests. Likewise, they cast doubt on theoretical arguments that link democratic institutions and political competitiveness to lower tariff rates due to better representation of consumers as voters. The results consistently point in the opposite direction.

**Cross-section results**

We now turn to several additional results, drawing on data from EU accession countries, a larger sample of low- and middle-income countries, a sample of Central American economies, and a sample of OECD countries. For each of these, we first consider results from a cross-section; we then extend the samples to a cross-section time series and present results from fixed effects models to exploit within-country variation in political institutions. Marginal effect plots are presented in the appendix. We include several control variables plausibly associated with tariff rates and consumption patterns: log imports, obtained from WITS; the size of the country’s market (log GDP), the country’s wealth (GDP per capita), the country’s population size (log population), log foreign direct investment (log FDI), and a country’s exchange rate value relative to the US dollar (log xrate), obtained from the World Development Indicators; and the number of trade agreements a country has signed (Dür, Baccini, and Elsig 2014).

**European Union accession.** We rely on data from the 12 EU accession countries that joined in the fifth enlargement round in the 2000s. Several of these countries experienced political transitions during the 1990s. These countries also had, before joining the EU, individual tariff rates toward third countries. Eurostat provides data on consumption shares, specific to each country, in a unified format, which alleviates concerns about the comparability of the data. The Eurostat data cover 2005 onward. Because the earliest accessions in this sample occurred in 2004, we rely on the 2005 data for consumption shares. We match the 2005 data on consumption shares with tariff data from the last year before accession for which data are available for each country (between 2001, for Latvia, and 2006, for Bulgaria). For each country, we have one observation per product, which yields a total of 1,148 observation (we lack tariff data for four observations).

The results are similar to those reported for the Mexico sample in terms of direction, robustness, and magnitude. Table 4 column 1 shows that a 1 percentage point increase in the consumption share is associated with an increase in the tariff rate of about 2.6 percentage points, or 41% relative to the sample average. When estimating country-specific slopes on consumption shares (obtained from interacting the consumption share with country dummies), the effect is positive and statistically significantly different from zero for all countries but Malta.

Table 4 column 2 extends the consumption data to 1991–2006. We interact the variable on consumption shares with the polity score, which in the sample ranges from 5 to 10. While the coefficient on consumption shares is negative, the smallest marginal effect is .571 because the polity score has a minimum value of 5 in the sample. Moreover, the association between consumption shares and tariff rates strengthens as a country’s domestic political system becomes more democratic, as indicated by the positive interaction term. The marginal effect of the consumption share is positive and statistically insignificant at the lowest levels of polity scores, and it increases in size and statistical significance toward the upper end of the distribution. Products with higher consumption shares are never associated with statistically significantly lower tariffs and, under democratic institutions (with polity scores of at least 7), are associated with significantly higher tariff rates.

**Lower- and middle-income countries.** Table 4 columns 3 and 4 extend the sample to a larger cross-section of countries. We match data from the World Bank Global Consumption database to 2010 HS tariff data. The advantage is coverage—we have data on 71 lower- and middle-income countries (the sample increases to 73 countries when including fixed effects instead of the control variables). The trade-off is data quality. The consumption categories are coarser, which reduces the ability to find matches with the HS categories. The comparability of categories and surveys across countries is also limited.

Table 4 column 3 shows that the positive correlation between consumption shares and tariffs weakens in size but remains. Column 4 imposes the 2010 consumption share data on years from 1988 to 2012. To focus on within-country changes in domestic institutions, we restrict the sample to countries that reached a polity score of at least 7 during the sample period, which leaves 39 countries, and again include country fixed effects. The positive, statistically significant interaction term between consumption shares and tariffs remains. Moving from a polity score of 0 to a polity score of 10 increases the effect of an increase in consumption shares...
by over 80%; the appendix provides a graph with marginal effects. The effect of democratic institutions is negative but not statistically significant in this sample. The effect remains negative for on average about 12.4% of cumulative consumption.

**Central American countries.** Table 4 columns 5 and 6 apply the 2010 Mexican consumption data to Central American countries in years from 1991 to 2012. The positive, statistically significant coefficient on consumption shares remains. The interaction term between consumption shares and polity scores is positive and statistically significant (col. 6). By imposing the data from Mexico, we necessarily introduce substantial measurement error. We obtain similar results when coarsening the data on consumption shares by creating a dummy variable for product categories with positive consumption shares (not reported).

**OECD countries.** Finally, to assess whether the positive association between consumption shares and tariff rates is evident in developed economies with stable democratic systems, we create a sample restricted to countries that were, by 2010, OECD members. We obtain data on consumption shares across product categories from each country’s national statistical office. Because EU member states are subject to the common external tariff, we drop EU members and instead code the EU as a single entity. We were not able to obtain data for Iceland and South Korea. Table 4 column 7 shows that the
posi
tive, statistically significant coefficient on consump
tion shares also obtains in the sample of OECD members.

**DISCUSSION**

Our results document a striking absence of consumer in
terests in trade policy. Those goods that are consumed most
intensively receive higher, not lower, tariff rates, and the re-
lationship does not weaken as countries become more dem-
ocratic. It follows that consumers, and a higher regard for
consumers in democracies, cannot account for liberal trade
policy. This raises two questions: First, why are consumer
interests absent from trade policy, particularly in democra-
cies? Second, what accounts for lower trade barriers in de-
mocracies if not consumer interests?

The absence of consumer interests may be explained by
the challenges to collective action by consumers, which have
been identified at least since Pareto (1927). These challenges
are reinforced by a lack of voters’ awareness of the economic
consequences of trade liberalization and in-group versus out-
group dynamics (Guisinger 2009; Mansfield and Mutz 2009).
Nonetheless, the consensus in the literature has been that
democratic policy makers take consumer interests into account
at least implicitly and to a larger extent than autocratic lead-
ers because they have a larger concern for public goods and the
interests of dispersed voters; at a minimum, democratic policy
makers are expected to implement lower tariffs because of the
effects on aggregate price levels. This is not the case: consumer
interests are not reflected in trade policy, especially not under
democratic institutions.

Autocratic leaders may have a larger concern for consum-
ers than typically assumed if they derive legitimacy not from
the political process but from economic performance (Bates
1981; Pond 2018). This effect may be reinforced by the use of
tariffs as a revenue source. The combination of intensity and
inelasticity of consumer demand makes consumption goods
attractive and stable revenue sources. If democracies require
more revenue than nondemocracies, this explanation accounts
for a strengthened association between consumption shares
and tariff rates in democracies. In this perspective, governments
are more than mediators of political demands. A government’s
own objectives—raising revenue to govern effectively—would
have to enter theoretical models of trade politics more promi-
nently than they currently do. While revenue concerns featured
prominently in political debates at the beginning of the twen-
tieth century, and in academic debates until the 1980s, they all
but vanished from recent accounts of trade politics (exceptions
are, e.g., Bastiaens and Rudra 2016; Betz and Kerner 2016;
Queralt 2017). For instance, the most prominent model of trade
politics includes revenue concerns, but they appear only tan-
gentially—they are explicitly not part of the government’s
political goals (Grossman and Helpman 1994). However, this
explanation would not account for overall lower tariff barriers
in democracies, nor would it explain why in autocracies con-
sumption shares do not seem to correlate with lower tariff
rates.

An alternative explanation for the results in this article,
and the puzzle they raise, can be found by combining theo-
ries of contract enforcement as a source of international trade
with theories of pro-trade producer lobbying. Democratic in-
stitutions tend to provide, and increase the credibility of, in-
stitutions that guarantee property rights and the enforcement
of contracts between firms. That democracy is associated with
stronger property rights, and the resulting need to distinguish
the effects of property rights from the effects of democratic
institutions, has long been recognized in the literature on
foreign direct investment (Li and Resnick 2003), but it has
been largely absent from the literature on trade politics. Im-
proved contract enforcement has two consequences for trade
policy.

First, stronger contract enforcement institutions encour-
ge the development of competitive markets. Exporting re-
quires internationally competitive industries and, especially
with the rise of intra-industry trade, internationally competitive
firms. Additionally, stronger contract enforcement encourages
the development of domestic financial markets (Rajan and
Zingales 2003), which increases the availability and reduces
the cost of trade financing. Trade financing is frequently a
prerequisite for international transactions, and an increased
availability of trade financing allows more domestic firms to en-
gage in exporting and importing. Democracies, by provid-
ing a more reliable legal framework, are therefore likely to
boast more exporting firms and more importing firms. In
the context of reciprocal trade agreements, exporters support
domestic trade liberalization in exchange for lower tariff bar-
riers abroad. Moreover, importers benefit from lower tariffs
on inputs in their own production process.

Second, much of international trade requires legal contracts
between firms located in different countries (Greif 1993), and
the production of many products requires inputs sourced from
several firms. Reliable contract enforcement facilitates the pro-
duction of complex products that draw on a large number of
inputs (Nunn and Tremler 2015), which encourages the cre-
ation of global production networks based on imports from
abroad and exports to foreign markets. Firms participating in
such production networks benefit from trade liberalization, and
this pro-trade lobbying comes from a set of firms that have
above-average political influence: multinational firms and
exporting firms, which tend to have higher profits and more
employees than firms producing for the domestic market only
(Bernard and Jensen 1999).
If pro-trade producer lobbying is concentrated on intermediate goods and nonconsumption goods, this explanation may account for the reported association between consumption shares and tariff rates. And if democracies have better institutions to secure contract enforcement, they encourage the emergence of more pro-trade interest groups, which explains an association between democracy and free trade at the aggregate country level. This theory provides a new explanation of why democracies are more open to international trade. In this account, free trade is no longer a cause of the political incentives created by a democratic electoral process. It is based on the recognition that contract enforcement is an important driver of international economic integration and that stronger contract enforcement and democratic institutions tend to correlate. Because consumer interests are absent from this explanation, it is not surprising that higher consumption shares are not associated with lower tariff rates.

However, this theory turns the standard explanation of free trade on its head: democracies are more open to trade not because of the way domestic institutions aggregate the preferences of different actors—indeed, the presence of pro-trade lobbying implies that this preference-aggregating effect of domestic institutions on trade openness becomes ambiguous (Betz 2017). Instead, domestic institutions shape the configuration of domestic actors with a stake in trade policy. If pro-trade producer lobbying explains cross-country differences in trade policy, we observe a systematic association between democracy and free trade not because democratic institutions insulate governments from interest groups but because of the presence of interest groups that benefit from demand trade liberalization. Incorporating lobbying by groups in favor of free trade, and their roots in institutions that ensure effective contract enforcement, into theoretical models of trade politics would therefore have considerable consequences for our understanding of the nexus between democracy and trade policy.

CONCLUSION
We evaluated the impact of consumer interests on tariff rates and how that relationship is shaped by domestic political institutions. We expected that tariffs would be lower on goods that are consumed more intensively and that this relationship would be strongest in democracies, where governments are thought to be more responsive to consumer interests. We found the opposite. Products on which consumers expend larger shares of their income are characterized by higher, not lower, tariff rates. We found no evidence that representative domestic institutions help translate consumer interests into more favorable trade policies.

These results highlight the tension, and at times inconsistency, between an association of lower average tariff rates and democratic institutions, often argued to be driven by consumer interests, and theories of trade politics leaning on producer interests. On the most fundamental level, the article raises skepticism about the theoretical link between liberal political systems and liberal trade policies and casts doubt on the role of broad public interests in influencing economic policy in democratic systems. The findings add to a literature that questions the ability of voters to influence trade policy. Guisinger (2009), for instance, emphasizes the low salience of trade politics in US congressional elections and points out that voter-driven theories of trade politics struggle with this finding. Our results reinforce this interpretation: some countries have lower tariff rates than others, but consumers, and differences in their influence across political systems, seem to play little role in explaining such patterns.

Finally, the results speak to recent political debates about trade. Trade openness, and economic integration more generally, has received increasing push back from voters in recent years. One of the most frequently cited arguments in support of free trade is that free trade allows all citizens, in their role as consumers, to benefit from access to cheaper products. While this is certainly true for free trade, trade policy appears to fall short of that promise in a systematic fashion. Voters are far from guaranteed to share the gains from free trade in their role as employees (Dean 2016). They may also receive limited gains in their role as consumers.

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