

Rewarding Commitment: Electoral Cycles in Trade Between Military Allies

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Abstract

How do military alliances impact economic ties? Protege states have strong incentives to engage in the domestic politics of powerful patrons. This paper details how alliance proteges use positive economic statecraft to advance their security by helping committed patron state leaders manipulate the economy during leadership competitions. I test these claims with three analyses of trade between the United States and its' allies. First, I show that allied states drive electoral cycles in U.S. exports. I then show which allies respond more to elections. A subsequent examination of election-year exports from U.S. states shows that increased exports to allies concentrates in swing states, which supports claims that allies tie trade changes to electoral competition. These results suggest that leaders can employ security commitment for temporary economic and political gains during leadership competitions.

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1 Introduction

In 2019, when Donald Trump claimed that “It’s not right to be taken advantage of on NATO and also then to be taken advantage of on trade, and that’s what happens,” he was neither the first nor the last U.S. policymaker to highlight perceived problematic economic concessions to allies.¹ Treasury Secretary John Connally claimed in a 1971 speech that the United States “had the right to expect more equitable trading arrangements” with its allies (quoted in Sayle (2019, pg 175)). More recently, Congressional leaders criticized the Biden administration’s decision to waive sanctions on the Nord Stream 2 gas pipeline between Russia and Germany.²

These examples reflect a general question; can large alliance leaders like the United States translate their preponderant security role into economic influence over junior allies? Two schools of thought on economic bargaining in asymmetric alliances give competing answers. One argues that alliance patrons have limited economic leverage because they prioritize geopolitical aims (Drezner, 2013; Wolford and Kim, 2017). Another perspective claims that alliance leaders have substantial economic influence (Norrlof, 2010; Brooks, Ikenberry and Wohlforth, 2013) and threats to reduce security commitment encourage economic concessions (Oatley, 2015, pg. 122).

I argue that large alliance members’ economic leverage depends on leaders’ past demonstrations of commitment and prospects for removal. Leaders who establish a strong alliance commitment reputation are more likely to secure economic concessions during leadership competition, but otherwise have reduced economic leverage. Small allies will make economic policy changes that help a committed partner retain power without endangering their own tenure in office. Thus, leaders who demonstrate alliance commitment are more likely to secure economic concessions during leadership competitions such as elections, but allied policy

¹<https://www.reuters.com/article/us-nato-summit/very-very-nasty-trump-clashes-with-macro>

²<https://www.bbc.com/news/world-us-canada-57180674>

changes will be temporary and targeted. When the incumbent leader has shown strong commitment, allies will receive more exports during election years, especially from key electoral constituencies. At the same time, prior commitments and elections have no impact of tariffs, as structural concessions endanger allied leaders' domestic political survival. Senior allies thus have little economic leverage, unless leadership competition encourages their partners to make economic concessions to bolster their security.

I test three predictions from the argument. First, I analyze democratic major power trade with junior allied countries. I find that when major power leaders signal more support to allied states, trade with allied states increases around elections. A subsequent analysis of exports from U.S. states in election years suggests that allies concentrate their imports from the United States in electorally competitive states, which is consistent with strategic economic concessions for leadership competition. The final analysis shows that unlike trade flows, prior leader commitment and elections have a negligible association with allied tariffs on major power exports.

The argument and findings address three salient issues in international relations theory and practice. First, they speak to debates about how economic and security ties interact (Mastanduno, 2009; Poast, 2019). Scholars dispute whether economic linkages drive security ties (Biglaiser and DeRouen, 2007; Fordham, 2010; Kimball, 2010), security concerns encourage economic linkages (Gowa, 1995; Li, 2003; Long and Leeds, 2006; Gowa and Mansfield, 2004), or both (Biglaiser and DeRouen, 2009; Kinne and Bunte, 2018). My findings suggest that in some alliances, this relationship changes with leaders' commitment and competition.

Expanded exports from alliance leaders to junior partners in election years also bolster political business cycles where elites manipulate economic policy to win reelection. Elected leaders often use fiscal (Rogoff, 1987) and monetary policy (Clark and Hallerberg, 2000) to generate economic growth around elections. There is also evidence that leaders use non-budget instruments like social policy (Philips, 2020), labor agreements (Ahlquist, 2010), trade disputes (Conconi et al., 2017) and defense contracts (Derouen Jr and Heo, 2000) to win elections. In

addition to these domestic mechanisms, other countries can facilitate political budget cycles.

Finally, this paper provides new insight into coercive demands by bridging economic and security bargaining. When and why coercion succeeds is a salient question (e.g. (Sechser, 2010, 2018; Cebul, Dafoe and Monteiro, 2021)). Most studies of coercion examine either security threats (e.g. (Horowitz and Reiter, 2001; Sechser, 2011)) or economic sanctions (e.g. (Marinov, 2005; Allen, 2008; Escribà-Folch and Wright, 2010)). This study explores whether security ties provide economic leverage. In particular, it assesses issue linkage in alliance management, building on previous work that considers alliance formation (Poast, 2012) and credibility (Davis, 2008; Poast, 2013).

Whether trade concessions are the price of security alliances also has important implications for how policymakers bargain with allies. If threats to reduce security commitments do not lead to economic gains, then they create negative security consequences without economic benefits. My findings suggest that alliance skeptics have the least economic leverage, because allies have no incentives to risk domestic disapproval of economic policy changes. But a cooperative equilibrium where leaders signal support and allies help patron leaders remain in power is possible.

The paper proceeds as follows. To start, I outline an argument explaining when and why alliance leaders might demand economic concessions from their partners, and when allies might offer economic assistance. I then test three predictions from the argument. First, I show that U.S. trade balances with allies increase in election years as prior leader signals of support increase. I then show that election year exports from the United States to its allies concentrate in swing states. Finally, I examine tariff levels and show that allies are unlikely to make structural trade policy changes, even as commitment signals increase. The last section discusses the results and offers some concluding thoughts.

2 Argument

In asymmetric alliances between large and small states, the large state protects its junior partner in exchange for foreign policy concessions (Morrow, 1991). A credible promise of military support increases the large state's foreign policy influence. Small alliance members garner protection from external threats and sacrifice some foreign policy autonomy.

Military alliances and economic cooperation are inseparable. Many alliances also include explicit or implicit promises of economic cooperation (Gowa and Mansfield, 2004; Long and Leeds, 2006; Davis, 2008; Poast, 2012).³ A cooperative bargain of security and economic ties results. Although many asymmetric alliance formalize hierarchical relationships, security and economic hierarchy are distinct (Lake, 2009), so security preponderance need not secure untrammelled economic influence.

There are two competing perspectives on the balance of security and economic relations in asymmetric alliances. One view argues that to prioritize international influence and geopolitical concerns, large state leaders tolerate economic protectionism (Drezner, 2013; Wolford and Kim, 2017). In this perspective, large state leaders prioritize security over economic influence, leaving little economic leverage. Another argument holds that large alliance leaders have substantial economic influence (Norrlof, 2010; Brooks, Ikenberry and Wohlforth, 2013) and threats to reduce commitment can coerce economic concessions from junior alliance partners (Oatley, 2015).

I argue that large alliance members usually lack economic leverage, especially when they invest in credible alliance commitments, but allies will make economic changes when a committed patron leader might be replaced. This process emphasizes how leaders affect intra-alliance bargaining. The way alliances affect economic bargaining depends on leader investment in alliance commitment and leadership competition in the large alliance partner. Only

³Conflict and economic integration are linked in general (see for example, (Gartzke and Li, 2003; Chen, 2021)).

leaders with an established reputation for alliance cooperation can leverage security commitments for economic concessions, and only when they or their coalition face competition. To uphold alliance security, allies will make temporary economic changes so they support a friendly leader without endangering their own security in office.

There are four key actors in this argument. First, the large alliance member leader seeks geopolitical influence and a favorable balance of economic relations. Second, a leader in the small alliance member desires security from external threat and a favorable economic balance. Both leaders are office-seeking and depend on domestic supporters to stay in power. The third and fourth actors are the domestic actors in both states, who gain or lose from changes in economic ties.

Leaders require domestic support to hold office, and can win support through the distributional consequences of international economic ties. Leadership competition through an election or some other leadership challenge increases the pressure on leaders to solidify their coalition or find new supporters. Even if a leader faces term limits, they will often attempt to ensure that their coalition remains in power.

Boosting economic prosperity helps leaders increase their odds of retaining office. These incentives lead to political business cycles, where leaders manipulate economic policy to increase economic growth and bolster their electoral prospects (Rogoff, 1987; Clark and Hallerberg, 2000). Leaders also use social policy changes to bolster their electoral prospects (Ahlquist, 2010; Philips, 2020).

Because alliances often support economic ties, allied economic policy can help patron state leaders generate political business cycles. Trade, investment and financial ties shape the prosperity of domestic interests. If large state leaders change the economic bargain in an alliance to the benefit of domestic interests, they increase their odds of retaining power.

As an illustration of the domestic political rewards of changing economic relations in an alliance, consider trade politics. International trade shapes domestic policies, as trade has dis-

tributional consequences for domestic interests in large and small alliance members. Under incomplete trade openness, some domestic sectors in both states are protected from foreign trade competition by tariff or non-tariff barriers. Protected sectors have higher incomes than they would under free trade, while sectors with a comparative advantage in the other state lose out on trade income.

There are two domestic political motives for large state leaders to renegotiate the balance of trade and security relations in an alliance. First, leaders can increase the income of some domestic sectors. Increased exports to junior members could benefit domestic interests, who would then back the incumbent. Trade expansion also increases domestic consumption and sometimes facilitates intra-industry trade. Domestic sectors who benefit from increased trade would then be more likely to support the incumbent leader, as trade cleavages shape domestic political coalitions (Rogowski, 1987; Hiscox, 2001).

Trade balances impact the balance of payments between countries. A negative trade balance creates a current account deficit, which is usually financed with international capital inflows, which further strengthens the currency. Increased currency values then make domestic manufacturing and exports less competitive. This increases domestic interests' concerns over trade with allies.

When leaders wish to change economic relations with allies to benefit domestic interests, alliance security guarantees might provide leverage. Leaders can renegotiate initial economic arrangements during alliance maintenance. Threatening to reconsider their security commitments to smaller partners might increase large state leaders' economic influence.

Credible threats to reduce security commitments in exchange for economic concessions depend on prior alliance investment, however. If a leader has not invested in the alliance, their allies have preserve less security by helping them remain in office. And if there is no risk of leader turnover, allies have no concern that changes in the ruling coalition will reduce their security. Given leadership competition, economic demands contain an implicit threat that rigid

economic bargaining might endanger security cooperation by empowering a less committed leader.

Security threats in economic bargaining create a dilemma for small alliance members. Reduced alliance commitments endanger their security, but economic concessions could threaten a leader's hold on office by harming domestic interests. Small state leaders thus weigh security benefits of economic policy changes against domestic political consequences.

The security benefits of conceding to a patron state leader's economic demands depend on that leader's prior commitment to the alliance. In bargaining between allies, reputations for commitment adhere to leaders, who have substantial influence on foreign and economic policy (Renshon, Dafoe and Huth, 2018). Executive leaders have a pivotal role in decisions to use force (e.g. (Colgan, 2013; Colgan and Weeks, 2015)), which are at the heart of alliance politics. A leader's reputation for alliance cooperation and commitment therefore shapes how allies respond to their economic demands. Leaders with a strong commitment reputation extend more security benefits to their allies.

When a leader first takes office, only they are fully aware of their commitment to an alliance, so establishing credibility is crucial. New leaders' alliance commitment is private information to allies and adversaries. Taking costly actions shows whether a leader is committed to the alliance in the same way that new leaders establish a reputation for resolve in crisis bargaining (Wolford, 2007).

Leaders establish alliance commitment by costly signaling (Fearon, 1997). Hands tying signals through statements of reassurance and commitment to an alliance are one salient way for leaders to establish a cooperative reputation (Blankenship, 2020). Leaders can also sink costs by deploying troops, visiting allied states, offering aid, or undertaking other costly cooperation (McManus and Nieman, 2019). Both these efforts indicate that a leader is willing to honor alliance promises, as less committed leaders would not make these signals.

Small alliance member leaders will only make economic concessions if supporting the pa-

tron state leader in office offers sufficient security benefits. Economic concessions thus depend on the large state leader's cooperative reputation. If the large state leader has demonstrated strong commitment to the alliance before making economic demands, then adjusting economic relations to help them retain power is worthwhile. Small state leaders prefer a cooperative partner to an uncertain leadership or coalition change, given the high stakes of alliance commitments. If a leader has not tied hands or sunk costs, then allies may be willing to bet on a more invested successor. At a minimum, allied states have few incentives to aid a leader who has not invested in their security.

In addition to establishing that concessions will bolster protege security by helping a friendly leader remain in office, prior cooperation generates a necessary reputation for restraint. Committing to not renege and follow through on a threat regardless of cooperation is essential in coercive bargaining (Cebul, Dafoe and Monteiro, 2021). If a leader previously demonstrated commitment to the alliance, it reduces the perceived risk that they will demand further concessions, or reduce security commitment regardless. This decreases the likelihood of proteges rejecting economic demands to establish a reputation for resolve and ward off future challenges (Sechser, 2010, 2018).

In addition to commitment reputation, protege leaders face their own domestic political constraints. Even when a leader creates a cooperative reputation and faces replacement, domestic concerns constrain allied economic concessions (Davis, 2008). Trade politics again provides a useful illustration. Reducing protection for domestic industries or tolerating patron protectionism exposes a leader to domestic political pressure as their industries lose trade income. Taking down trade barriers is also hard to reverse, especially when states are part of international organizations. Structural changes increase the risk of a small state leader losing office, so small states will prefer temporary concessions to help cooperative leaders remain in office. Temporary and targeted measures can help a large state incumbent without antagonizing domestic interests. Large states can therefore only leverage security preponderance

security role at specific times and in limited ways.

In trade and other economic areas, I expect that prior commitment provides conditional and limited economic leverage. Some concern with leadership change is necessary for commitment to increase patron influence. Allies will also make temporary changes instead of adjusting structural policies such as tariffs.

Commitment signals increase leaders' economic influence when they might be replaced, but reduce it otherwise. Investing in security for junior allies makes threats to renegotiate the balance of security and economic relations less credible. This mirrors the negative impact of costly peacetime cooperation on junior alliance member military spending (Alley, 2021). Moreover, leaders can provide another commitment signal by signaling support and then tolerate the resulting economic protectionism by allies. Bearing the costs of allied economic actions is a costly signal of commitment to an alliance because it generates economic inefficiencies. It also changes the domestic politics of the protege to support an ongoing alliance (Lake, 2013).

Several recent interactions between the United States and its allies help illustrate my claims about economic bargaining in asymmetric alliances. First, the Biden administration's controversial decision to waive sanctions and allow completion of the Nord Stream 2 gas pipeline between Germany and Russia support efforts to reassure European allies. In addition to allowing this concession to German economic concerns, Biden sought to wind down many of Trump's European trade disputes while talking up the U.S. commitment to NATO and the EU.⁴

The argument also explains why U.S. allies rarely conceded Donald Trump's trade demands. Trump's prior rhetorical attacks on NATO and other U.S. alliances gave allies few incentives help him win re-election. Economic concessions might have aided Trump's re-election campaign, in a mirror image of how Chinese soy tariffs reduced Republican vote

⁴<https://www.aljazeera.com/economy/2021/6/15/eu-and-us-call-truce-in-trump-era-trade-war>

share in the 2018 midterm election (Chyzh and Urbatsch, 2021). Moreover, Trump sought fundamental trade policy alterations such as reduced barriers to U.S. agricultural products that might have endangered allied leaders' political survival (Hee Park and Jensen, 2007).

In addition to concessions around elections and limited structural change, a third implication of the leadership competition argument is that allies will target their concessions for maximum influence on leadership competition. There is ample evidence of such strategic behavior in other domains. Domestic leaders use targeted trade disputes (Conconi et al., 2017) and defense contracts (Derouen Jr and Heo, 2000) to bolster their electoral prospects in key constituencies. Small states have similar incentives to undertake focused economic efforts. Pro-*teges* could target their concessions in crucial electoral districts to bolster a cooperative democratic leader, for instance. In autocracies, policy changes could favor members of the leaders' winning coalition, whether by geography or sector.

A 2002 trade dispute between the United States and Europe shows that allied states understand how to maximize the electoral implications of their economic policies. After George W. Bush imposed tariffs on EU steel to bolster the Republican Party's electoral fortunes in 2002 and 2004, EU retaliatory tariffs hit goods from swing states such as Florida oranges.⁵ Faced with lost support in other areas, Bush backed down.⁶

Large states can therefore only leverage security preponderance for economic influence at specific times and in limited ways. *Protege* states will aid political business cycles when a leader has invested in their security. Those efforts will not extend to structural concessions that endanger small state domestic interests, however.

⁵<https://www.wsj.com/articles/SB101674938851653120>.

⁶<https://euobserver.com/foreign/13791>

2.1 *Implications*

The argument generates several testable implications, especially for democratic alliance leaders. Elections provide clear markers of leadership competition that allow allies and leaders to their economic bargaining accordingly. Open electoral competition also facilitates targeted allied influence on those contests.

The first hypothesis concerns when and how junior partners make economic concessions. Junior partners will adjust trade with allies when the leader facing replacement has demonstrated prior commitment to the alliance. Otherwise, junior alliance members may take a chance on elections empowering a more supportive leader. Past indicators of commitment include statements of reassurance (Blankenship, 2020), aid, troop deployments, defense cooperation (Morrow, 1994; Alley, 2021) and trade concessions (Wolford and Kim, 2017).

ECONOMIC CHANGE HYPOTHESIS: DURING ELECTION YEARS IN A PATRON STATE, EXPORTS TO JUNIOR ALLIES WILL INCREASE AS PRIOR COMMITMENT SIGNALS BY THE INCUMBENT LEADER INCREASE.

The second hypothesis predicts targeted concessions. If allies want to support a friendly leader, they may target their economic concessions to crucial regions of electoral contests. I test this prediction in the United States, as the Electoral College increases the electoral importance of some states. Electoral College swing states have a critical role in presidential elections, which encourages U.S. leaders to focus on them in economic policies (Kriner and Reeves, 2015; Conconi et al., 2017). Therefore, exports from swing states to U.S. allies will increase in the year of elections more than exports from other states.

SWING STATES HYPOTHESIS: DURING PRESIDENTIAL ELECTION YEARS, EXPORTS FROM STATES TO U.S. ALLIES WILL INCREASE AS ELECTORAL COMPETITION IN THAT STATE INCREASES.

The third prediction is that junior allies are unlikely to change their tariff policies. Although helping a committed leader remain in office is valuable, the leaders of junior alliance members cannot endanger their own tenure by antagonizing domestic interests. Therefore, even if a large state leader undertook substantial commitment and faces replacement, their partners will not alter allied tariff schedules.

TARIFF HYPOTHESIS: DURING ELECTION YEARS IN A PATRON STATE, TARIFFS BY JUNIOR ALLIES WILL UNDERGO NEGLIGIBLE CHANGES, EVEN AS PRIOR COMMITMENT SIGNALS BY THAT LEADER INCREASE.

In the following, I describe how I test each of these hypotheses. In the first analysis, I establish that greater commitment by democratic major power leaders increases export to junior allies in election years. The second analysis shows that increasing U.S. exports to allied states in election years are concentrated in swing states, which suggests allied concessions concentrate in key electoral constituencies. Finally, I show that increasing commitment signals do not change protege tariffs on goods from their patron.

3 Major Power Exports to Allies

To test the first hypothesis, I analyze democratic major power trade with junior alliance partners. I expect that when an election could replace leaders who have signaled greater commitment to their alliance partners, patron state exports to junior partners will increase. Outside election years, support signals will reduce economic leverage over allies. This implies a negative constituent term on the leader support variable and a positive interaction between leader signals of support and time to the election.

Following DiGiuseppe and Shea (2021), I measure leader commitment to each allied state using the latent commitment measure of McManus and Nieman (2019), refit to a sample of

allied states without the alliance variable. Using this measure means that I employ a dyadic dataset of trade relations between the United States, France and United Kingdom and their non-major power allies from 1950 to 2012.⁷ Because reputations adhere to leaders, I measure commitment as the moving average of support across each leader's tenure. Increased support implies that a leader is more supportive and thus more valuable to allies than likely alternatives. I then employ elections data from the National Elections across Democracy and Autocracy (NELDA) dataset (Hyde and Marinov, 2012) to identify election years. Finally, I interact the moving average of protege support with a dummy indicator of election years.

The outcome of interest is annual changes in the natural log of exports, but I also model total trade, imports, and the trade balance to assess the net impact of export changes. Estimating models of changes allows me to include dyadic fixed effects.⁸ Furthermore, lagged trade flows have unit roots or near unit root coefficients, so models in levels risk spurious inferences. I draw on exports and imports data from the IMF's direction of trade statistics database.

In addition to the interaction of time to elections and leader support for allies, I include a series of control variables that may be correlated with alliances and trade. I adjust for changes in the GDP of both states (Fouquin and Hugot, 2016), democracy (Marquez, 2016), the presence of a militarized interstate dispute (Gibler, Miller and Little, 2016), shared IGO membership (Pevehouse et al., 2020) and whether an incumbent leader is running.⁹ Finally, I include dummy indicators of years before and after elections.

Some trade flow changes are unusual. This creates heavy-tailed residuals, so I employ a robust regression estimator; M-estimation with Tukey's biweight function (Rainey and Baissa, 2020). Robust regression places less weight on unusual observations, making it more efficient than OLS for this particular outcome.

⁷The analysis stops in 2012 due to limits on the major power support measure.

⁸Fixed effects in dynamic models often bias estimates (Nickell, 1981). Results are robust to dynamic models without fixed effects. See the appendix for details.

⁹Some dyadic data from the *peacesciencer* R package (Miller, 2021).

Dyadic data is also clustered, which can generate misleading regression estimates. I account for this in two ways. First, all models I report here include dyadic fixed effects. As a result, I estimate the association between leader support, elections and trade within patron–protege dyads. Fixed effects estimate within-dyad changes in exports as leader signals of support shift. Second, I adjust the standard errors for dyadic clustering using the sandwich estimator of (Aronow, Samii and Assenova, 2015).

3.1 *Results*

As prior support signals by a major power leader increase, exports to non-major power allies increase during election years. Figure 1 presents coefficient estimates from models of changes in exports, imports, total trade and the trade balance. As expected, the interaction between mean leader support and the election year dummy is positive, which implies that leaders who have signaled more support to allies export more to that ally in election years. Moreover, the mean leader support signals constituent term is negative in all models, but not clearly so. The positive election constituent term is harder to interpret, because it reflects the impact of an election when average leader support is zero and the latent support measure never equals zero.

The sign and confidence intervals of the interaction terms are inadequate evidence of a conditional relationship (Brambor, Clark and Golder, 2006), so I plot predicted changes in trade flows in Figure 2. This figure presents predicted changes in trade across the range of mean leader support with and without election years. Given the non-linear relationships from logged trade flows and a robust estimator, these predictions are more straightforward to interpret than marginal effects.¹⁰

The positive interaction between elections and leader support in the model of democratic major power exports reflects a slight increase in exports in election years and falling exports outside of elections. In non-election years, greater average support from the incumbent leader

¹⁰I present marginal effects in the appendix.

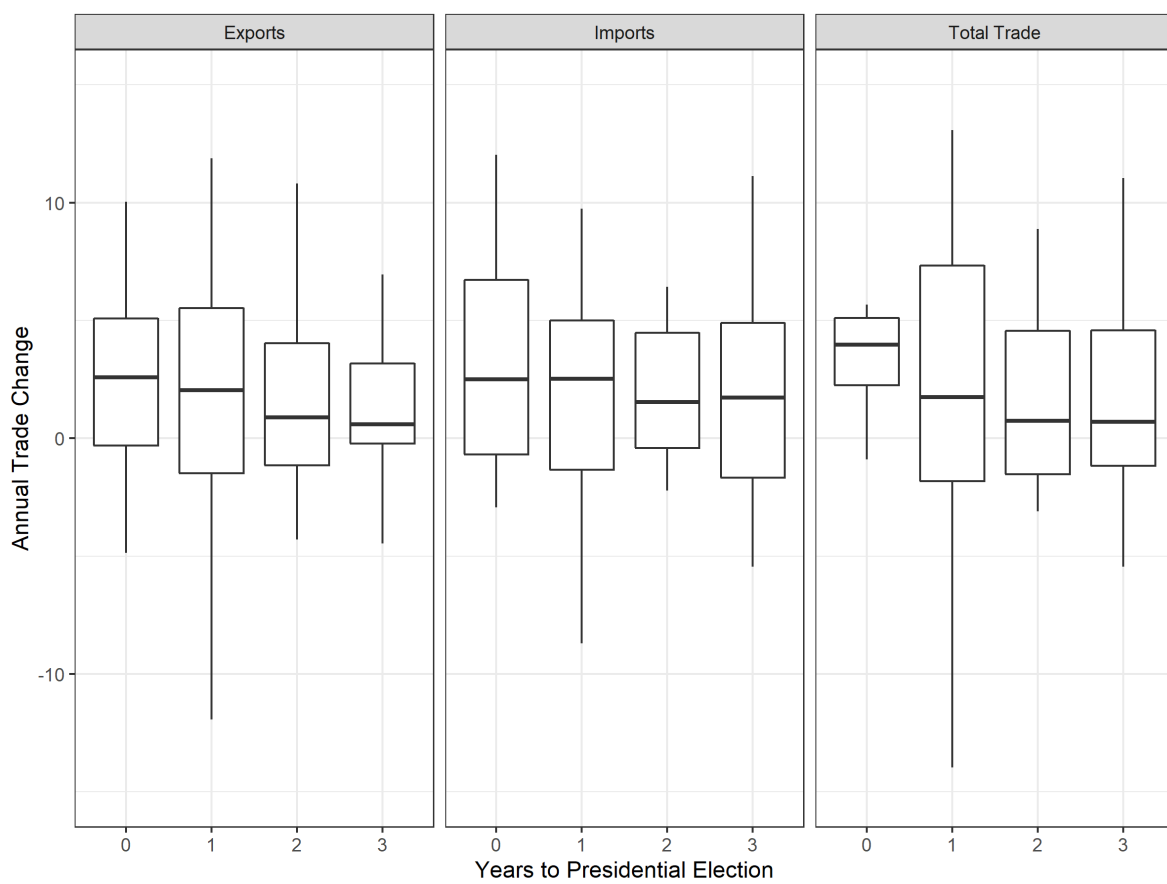


Figure 1. *Electoral Cycles in U.S. trade.*

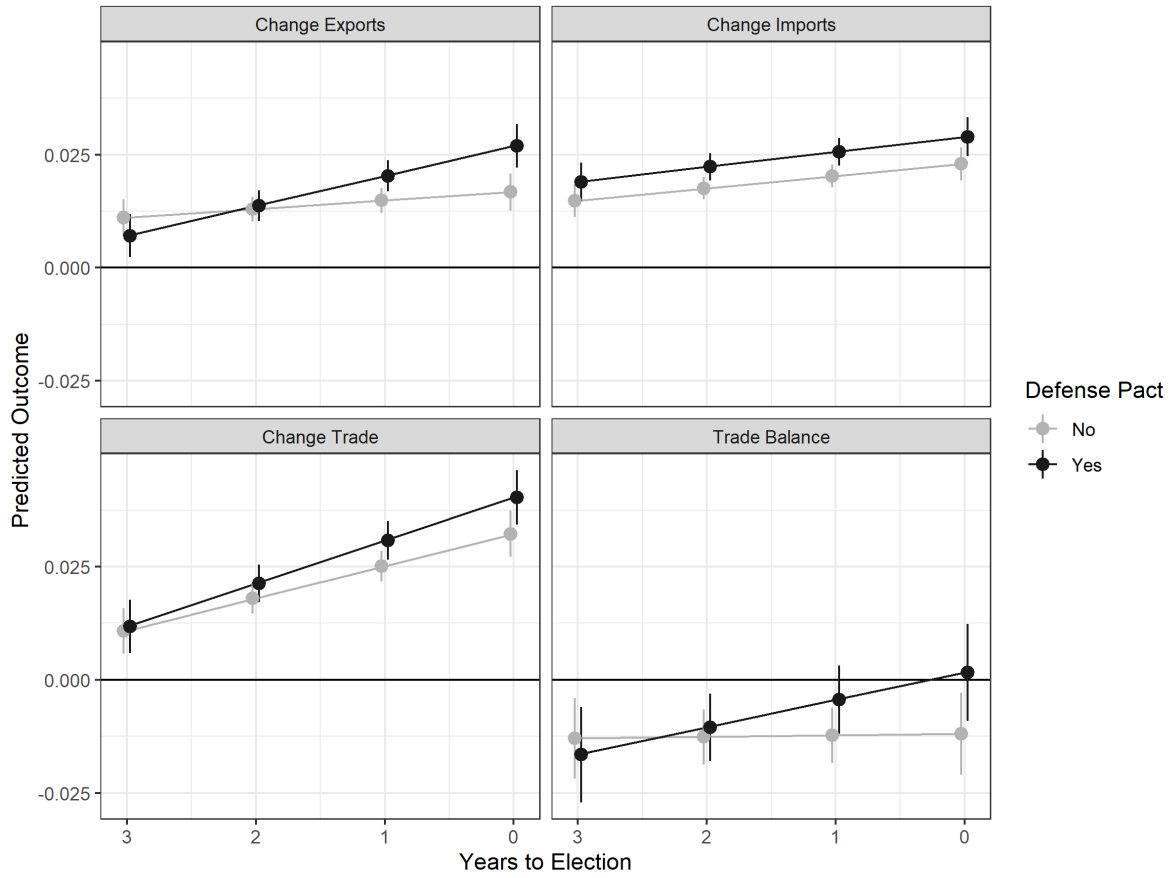


Figure 2. Predicted changes in trade between the the United States and non-major powers. Points lines mark the predictions and error bars summarize the 95% confidence interval.

reduces major power exports. A clear positive difference between election and non-election years at the highest values of mean leader support results.

Imports are less responsive to electoral cycles and leader support. A similar pattern might obtain, but predicted imports in election and non-election years at any level of leader support are largely indistinguishable. There is a potential difference in total trade, but given limited import fluctuations, this difference is less pronounced than changes in exports. Finally, inferences about electoral differences in trade balances across the range of leader support are uncertain.

Some of the other estimates in Figure 1 and Figure 2 suggest an electoral cycle in democratic major power trade with allies. Incumbent leaders reduce exports, but democratic major power trade balances with allies also increase before an election. Furthermore, allied democracy is associated with greater exports from democratic major powers and more positive trade balances.

These results are consistent with the economic changes hypothesis. When leaders demonstrate alliance commitment, exports to allies are higher in election years than non-election years. In the next analysis, I show that in the United States, election year exports are concentrated in electorally competitive states.

4 Swing States and U.S. Exports to Allies in Election Years

Greater U.S. exports to allied states during election years concentrate in swing states. In election years, allied states import more goods than other states, especially from important electoral states. The result holds across two measures of electoral importance—prior electoral competitiveness and pivot proximity (Wright, 2009).

To examine state trade in election years, I fit two gravity models of trade to a dyadic dataset of logged exports from U.S. states to foreign countries during election years. This analysis employs exports data from the St. Louis Federal Reserve and includes elections from 2002 to 2020.

The key independent variables are a dummy indicator of whether the destination country has a defense pact with the United States and two separate measures of electoral competition. Because I expect that allies will be more likely to import from electorally competitive areas to maximize the impact of their economic policy changes, allied imports from swing states should be higher than imports from other states in election years. The first electoral competition measure is the difference in the two-party vote share in the last presidential election. Smaller differences in the vote share imply greater competition. The second measure captures a state's pivot proximity in the election results. The pivot state is the state that, after ranking states by the vote share of the winner, gives the winner 270 electoral votes (Wright, 2009). Keeping the same ranking orders states by distance from the pivot in positive and negative directions—proximity is the absolute value of this distance. Pivot proximity thus encompasses vote share and electoral college considerations. A low pivot proximity score implies a state was closer to providing the winning margin and was thus more important, while high proximity distance indicates that a state was unlikely to put the winning candidate over the top.¹¹

Because smaller pivot proximity and vote differences imply greater competition, I expect that the interaction of U.S. alliance and these variables will be negative, as allied trade with less important states falls off. The U.S. alliance constituent term should be positive, as alliances support trade most in states with low past vote differences and pivot proximity. The overall effect of alliances will likely be positive (Gowa and Mansfield, 2004; Fordham, 2010), but it will be strongest in swing states. I have no strong expectations about the electoral competition constituent term.

These models adjust for correlates of alliances, electoral competition and trade. First, standard gravity model controls include the logged population and GDP of each state and corresponding country destination. I also adjust for the reelection years of George W. Bush, Barack

¹¹To maximize the number of elections in this analysis, I do not examine the conditioning effect of prior leader support, as the latent support measure only runs through 2010.

Obama and Donald Trump with separate dummy indicators, as well as the exchange rate and government spending as a share of GDP in the destination state. A lagged dependent variable adjusts for temporal autocorrelation in dyadic exports. To account for dyadic clustering, especially the diffusion of electoral competition in a state across dyads, I employ a cluster-robust sandwich estimator for the standard errors (Aronow, Samii and Assenova, 2015).

4.1 *Results*

As expected, allied states import more from U.S. states than other countries during election years. U.S. exports to allies also concentrate in electoral college battlegrounds. This is consistent with claims that allies make strategic economic concessions.

Figure 3 presents the coefficient estimates from the two primary regression models. The constituent term for the alliance variable is positive, which indicates that when vote difference is zero, or a state was pivotal in the Electoral College, allied states import more than other states. Among non-allied states, electoral salience does not have a clear association with exports. The negative interactions between alliances and electoral competition measures indicate that decreasing electoral salience reduces the association between an alliance and exports.

The control variables in the model are also generally sensible. Increasing GDP in the state of origin and international destination both increase exports. Trump’s 2020 reelection campaign is associated with far lower exports than other elections due to the Covid-19 pandemic.

To show the interactions, Figure 4 presents the estimated marginal effect of an alliance on exports across the range of electoral competition. Regardless of prior election vote differences or proximity to the electoral pivot, allies still import more than other states. The positive association between alliances and trade in election years is stronger in more competitive states, however. This implies that allies seek out swing state exports during election years.

Allies make targeted economic changes in election years. U.S. allies concentrate their imports in states that are electorally crucial. This analysis does not show whether supply or de-

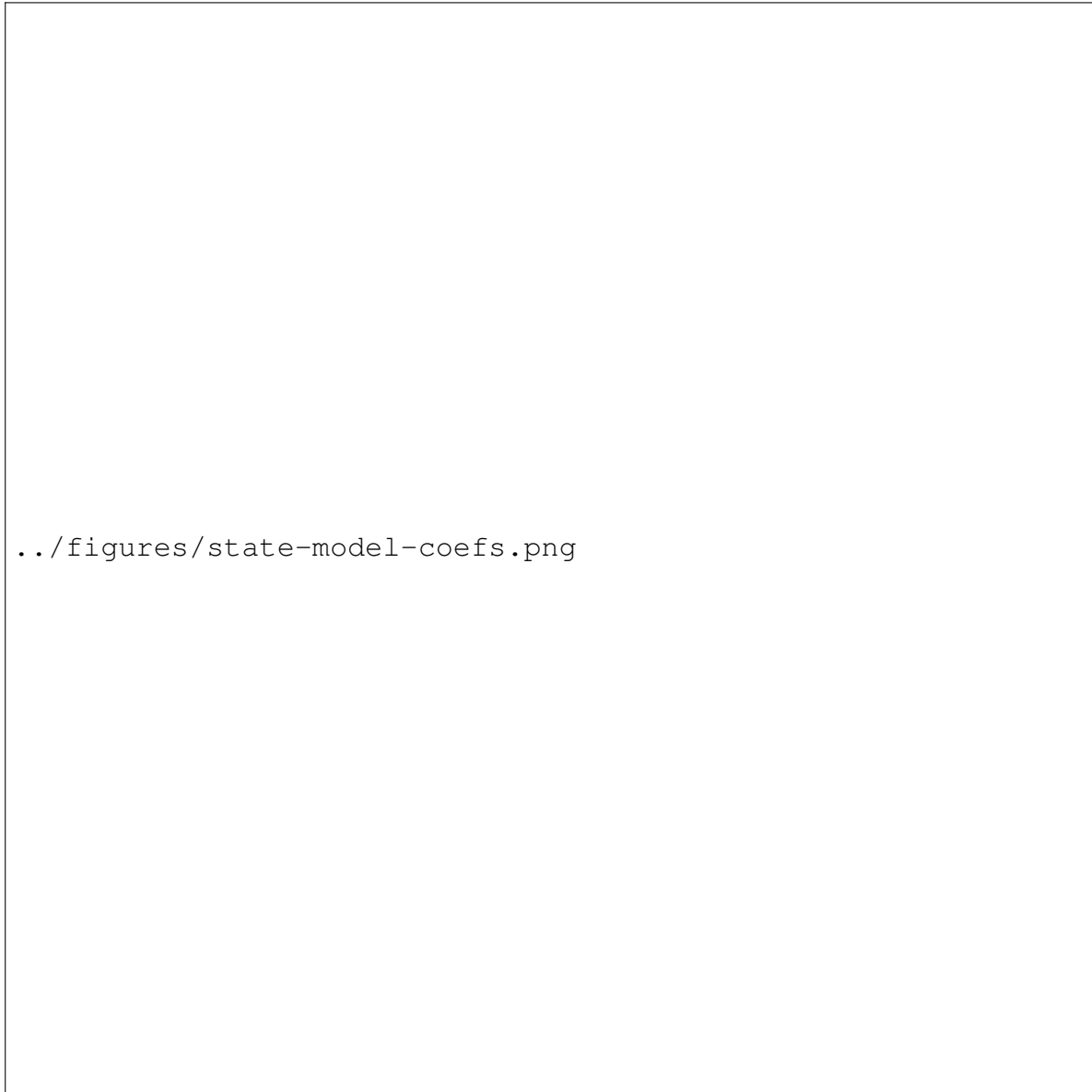


Figure 3. *Coefficient estimates from a gravity model of exports from U.S. states to foreign countries, 2002 to 2020. Points mark the coefficient estimates and error bars summarize 95% confidence intervals.*

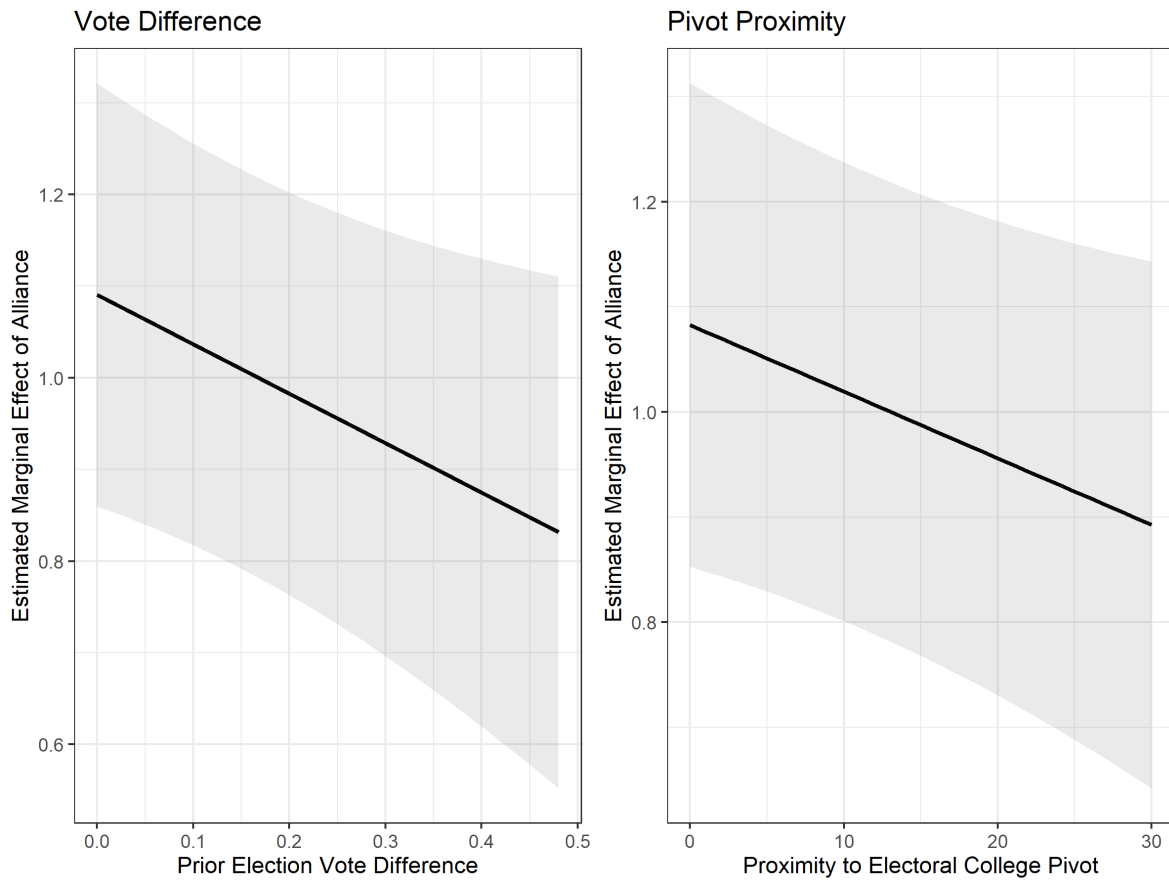


Figure 4. *Estimated marginal effect of an alliance on exports from U.S. states to foreign countries across two measures of electoral competitiveness, 2002 to 2020. Smaller vote difference or pivot proximity implies greater electoral competition.*

mand drives these export patterns, however. Both paths are plausible. Regardless of whether allies seek exports from competitive states, or take on more goods from swing states where politicians want to bolster prosperity to win elections, they facilitate trade flows for electoral advantage.

5 Discussion and Conclusion

All three results are consistent with temporary and targeted economic concessions to support committed leaders of large alliance members around elections. In the appendix, I check these findings. First, I check for non-linear relationships and adequate support in the interactions (Hainmueller, Mummolo and Xu, 2019). I also present alternative model specifications that find similar conditional relationships.

Demonstrating alliance commitment aids credible security commitments and provides contingent economic leverage. Alliance patrons have limited economic leverage, save when allies make temporary economic concessions to help them remain in office. Outside of election years, reassuring allies decreases democratic major power exports. But when leaders offer more support, exports to allies hold up in election years and may concentrate in key constituencies.

Both perspectives on relative economic leverage in asymmetric alliances thus have some validity. Demonstrating security commitment often reduces exports and has no impact on allied tariffs. At the same time, leaders can leverage security commitments to garner allied support during elections.

Alliances can therefore help leaders manipulate economic conditions to improve their electoral prospects. This finding adds an international mechanism to the political budget cycle literature. Leaders can use international cooperation in non-economic issues to encourage other states to implement favorable economic policies.

The argument and results reflect a general phenomenon that is more pronounced in al-

liances due to close economic and security relations. States regularly manipulate international economic ties to bolster or undermine leaders depending on their perceived stance on other issues. To give one example, Chyzh and Urbatsch (2021) show that Chinese soy tariffs reduced support for Republicans in the 2018 midterm elections. Allies have both motive and means to undertake similar actions. The security benefits of a cooperative leader motivate economic changes, and allies have many economic ties to leverage when they want to help a friendly leader. Future research should examine this phenomenon outside of military alliances.

These results also have implications for democratic alliance credibility and maintenance. A stable alliance bargain can develop if leaders anticipate the potential electoral benefits of economic ties with allies. When leaders expect that demonstrating commitment will have electoral rewards, they will be more likely to invest in alliances. This also makes tolerating reduced trade leverage outside of elections worthwhile for patron state leaders.

In addition to assessing how states manipulate economic ties to support friendly leaders, future research could proceed in several directions. This paper presents some macro correlations, but could benefit from micro foundations. Are individuals more willing to make temporary economic changes that disadvantage domestic firms to support a friendly leader? When and how economic ties encourage alliance investments also merits further investigation. Whether these results generalize to autocratic alliances is another worthwhile inquiry.

In conclusion, large alliances leaders have limited and conditional economic leverage that depends on political leaders' commitment reputation and leadership competition. When a leader makes alliance investments, their exports to allied states increase during election years, and may concentrate in swing states. Otherwise, commitment reduces exports, and has no impact on structural policies like tariffs regardless of electoral pressure. Security preponderance thus provides less economic leverage than many observers expect, but still grants influence at critical junctures.

References

- Ahlquist, John S. 2010. "Policy by contract: Electoral cycles, parties and social pacts, 1974–2000." *The Journal of Politics* 72(2):572–587.
- Allen, Susan Hannah. 2008. "The Domestic Political Costs of Economic Sanctions." *Journal of Conflict Resolution* 52(6):916–944.
- Alley, Joshua. 2021. "Alliance Participation, Treaty Depth and Military Spending." *International Studies Quarterly* 65(4):929–943.
- Aronow, Peter M, Cyrus Samii and Valentina A Assenova. 2015. "Cluster–Robust Variance Estimation for Dyadic Data." *Political Analysis* 23(4):564–577.
- Biglaiser, Glen and Karl DeRouen. 2007. "Following the Flag: Troop Deployment and U.S. Foreign Direct Investment." *International Studies Quarterly* 51(1):835–854.
- Biglaiser, Glen and Karl DeRouen. 2009. "The Interdependence of U.S. Troop Deployments and Trade in the Developing World." *Foreign Policy Analysis* 5(3):247–263.
- Blankenship, Brian. 2020. "Promises under Pressure: Statements of Reassurance in US Alliances." *International Studies Quarterly* 64:1017–1030.
- Brambor, Thomas, William Roberts Clark and Matt Golder. 2006. "Understanding interaction models: Improving empirical analyses." *Political Analysis* 14(1):63–82.
- Brooks, Stephen G, G John Ikenberry and William C Wohlforth. 2013. "Don't come home, America: the case against retrenchment." *International Security* 37(3):7–51.
- Cebul, Matthew D, Allan Dafoe and Nuno P Monteiro. 2021. "Coercion and the Credibility of Assurances." *The Journal of Politics* 83(3):000–000.
- Chen, Frederick R. 2021. "Extended Dependence: Trade, Alliances, and Peace." *The Journal of Politics* 83(11):246–259.
- Chyzh, Olga V and Robert Urbatsch. 2021. "Bean Counters: The Effect of Soy Tariffs on Change in Republican Vote Share Between the 2016 and 2018 Elections." *The Journal of Politics* 83(1):415–419.
- Clark, William Roberts and Mark Hallerberg. 2000. "Mobile Capital, Domestic Institutions, and Electorally Induced Monetary and Fiscal Policy." *American Political Science Review* 94(2):323–346.
- Colgan, Jeff D. 2013. "Domestic Revolutionary Leaders and International Conflict." *World Politics* 65(4):656–690.
- Colgan, Jeffrey D. and Jessica L.P. Weeks. 2015. "Revolution, Personalist Dictatorships, and International Conflict." *International Organization* 69(4):163–194.

- Conconi, Paola, David R DeRemer, Georg Kirchsteiger, Lorenzo Trimarchi and Maurizio Zanardi. 2017. "Suspiciously timed trade disputes." *Journal of International Economics* 105:57–76.
- Davis, Christina L. 2008. "Linkage Diplomacy: Economic and Security Bargaining in the Anglo-Japanese Alliance, 1902–23." *International Security* 33(3):143–179.
- Derouen Jr, Karl and Uk Heo. 2000. "Defense Contracting and Domestic Politics." *Political Research Quarterly* 53(4):753–769.
- DiGiuseppe, Matthew and Patrick E Shea. 2021. "Alliances, signals of support, and military effort." *European Journal of International Relations* 27(4):1067–1089.
- Drezner, Daniel W. 2013. "Military Primacy Doesn't Pay (Nearly As Much As You Think)." *International Security* 38(1):52–79.
- Escribà-Folch, Abel and Joseph Wright. 2010. "Dealing with tyranny: International sanctions and the survival of authoritarian rulers." *International Studies Quarterly* 54(2):335–359.
- Fearon, James D. 1997. "Signaling Foreign Policy Interests: Tying Hands versus Sinking Costs." *Journal of Conflict Resolution* 41(1):68–90.
- Fordham, Benjamin O. 2010. "Trade and asymmetric alliances." *Journal of Peace Research* 47(6):685–696.
- Fouquin, Michel and Jules Hugot. 2016. Two Centuries of Bilateral Trade and Gravity data: 1827–2014. techreport CEPII.
- Gartzke, Eric and Quan Li. 2003. "War, Peace and the Invisible Hand: Positive Political Externalities of Economic Globalization." *International Studies Quarterly* 47(1):561–586.
- Gibler, Douglas M, Steven V Miller and Erin K Little. 2016. "An Analysis of the Militarized Interstate Dispute (MID) Dataset, 1816–2001." *International Studies Quarterly* 60(4):719–730.
- Gowa, Joanne. 1995. *Allies, Adversaries, and International Trade*. Princeton University Press.
- Gowa, Joanne and Edward D. Mansfield. 2004. "Alliances, Imperfect Markets, and Major-Power Trade." *International Organization* 58(4):775–805.
- Hainmueller, Jens, Jonathan Mummolo and Yiqing Xu. 2019. "How Much Should We Trust Estimates from Multiplicative Interaction Models?: Simple Tools to Improve Empirical Practice." *Political Analysis* 27(2):163–192.
- Hee Park, Jong and Nathan Jensen. 2007. "Electoral Competition and Agricultural Support in OECD Countries." *American Journal of Political Science* 51(2):314–329.
- Hiscox, Michael J. 2001. "Class versus Industry Cleavages: Inter-Industry Factor Mobility and the Politics of Trade." *International Organization* 55(1):1–46.

- Horowitz, Michael and Dan Reiter. 2001. "When Does Aerial Bombing Work? Quantitative Empirical Tests, 1917-1999." *Journal of Conflict Resolution* 45(2):147-173.
- Hyde, Susan D and Nikolay Marinov. 2012. "Which Elections Can Be Lost?" *Political Analysis* 20(2):191-210.
- Kimball, Anessa L. 2010. "Political Survival, Policy Distribution, and Alliance Formation." *Journal of Peace Research* 47(4):407-419.
- Kinne, Brandon J and Jonas Bunte. 2018. "Guns or Money? Defense Cooperation and Bilateral Lending as Coevolving Networks." *British Journal of Political Science* 50(3):1067-1088.
- Kriner, Douglas L and Andrew Reeves. 2015. "Presidential Particularism and Divide-the-Dollar Politics." *American Political Science Review* 109(1):155-171.
- Lake, David A. 2009. *Hierarchy in International Relations*. Ithaca: Cornell University Press.
- Lake, David A. 2013. "Legitimizing Power: The Domestic Politics of U.S. International Hierarchy." *International Security* 38(2):74-111.
- Li, Quan. 2003. "The effect of security alliances on exchange-rate regime choices." *International Interactions* 29(2):159-193.
- Long, Andrew G and Brett Ashley Leeds. 2006. "Trading for Security: Military Alliances and Economic Agreements." *Journal of Peace Research* 43(4):433-451.
- Marinov, Nikolay. 2005. "Do Economic Sanctions Destabilize Country Leaders?" *American Journal of Political Science* 49(3):564-576.
- Marquez, Xavier. 2016. "A Quick Method for Extending the Unified Democracy Scores." Available at SSRN: <http://ssrn.com/abstract=2753830>.
URL: <http://dx.doi.org/10.2139/ssrn.2753830>
- Mastanduno, Michael. 2009. "System maker and privilege taker." *World Politics* 61(01):121-154.
- McManus, Roseanne W and Mark David Nieman. 2019. "Identifying the level of major power support signaled for protégés: A latent measure approach." *Journal of Peace Research* 56(3):364-378.
- Miller, Steven V. 2021. *peacesciencer: A User's Guide for Quantitative Peace Science in R*.
- Morrow, James D. 1991. "Alliances and Asymmetry: An Alternative to the Capability Aggregation Model of Alliances." *American Journal of Political Science* 35(4):904-933.
- Morrow, James D. 1994. "Alliances, Credibility, and Peacetime Costs." *Journal of Conflict Resolution* 38(2):270-297.

- Nickell, Stephen. 1981. "Biases in Dynamic Models with Fixed Effects." *Econometrica* 49(6):1417–1426.
- Norrlof, Carla. 2010. *America's Global Advantage: US Hegemony and International Cooperation*. Cambridge University Press.
- Oatley, Thomas. 2015. *A Political Economy of American Hegemony*. New York: Cambridge University Press.
- Pevehouse, Jon C.W., Timothy Nordstrom, Roseanne W. McManus and Anne Spencer Jamison. 2020. "Tracking Organizations in the World: The Correlates of War IGO Version 3.0 datasets." *Journal of Peace Research* 57(3):492–503.
- Philips, Andrew Q. 2020. "Just in time: Political policy cycles of land reform." *Politics* 40(2):207–226.
- Poast, Paul. 2012. "Does Issue Linkage Work? Evidence from European Alliance Negotiations, 1860 to 1945." *International Organization* 66(1):277–310.
- Poast, Paul. 2013. "Can Issue Linkage Improve Treaty Credibility? Buffer State Alliances as a 'Hard Case'." *Journal of Conflict Resolution* 57(5):739–764.
- Poast, Paul. 2019. "Beyond the 'Sinew of War': The Political Economy of Security as a Subfield." *Annual Review of Political Science* 22:223–239.
- Rainey, Carlisle and Daniel K. Baissa. 2020. "When BLUE Is Not Best: Non-Normal Errors and the Linear Model." *Political Science Research & Methods* 8(1):136–148.
- Renshon, Jonathan, Allan Dafoe and Paul Huth. 2018. "Leader Influence and Reputation Formation in World Politics." *American Journal of Political Science* 62(2):325–339.
- Rogoff, Kenneth S. 1987. "Equilibrium political budget cycles." NBER Working Paper No. 2428.
- Rogowski, Ronald. 1987. "Political cleavages and changing exposure to trade." *American Political Science Review* 81(04):1121–1137.
- Sayle, Timothy Andrews. 2019. *Enduring Alliance: A History of NATO and the Postwar Global Order*. Ithaca NY: Cornell University Press.
- Sechser, Todd S. 2010. "Goliath's Curse: Coercive Threats and Asymmetric Power." *International Organization* 64(4):627–660.
- Sechser, Todd S. 2011. "Militarized Compellent Threats, 1918–2001." *Conflict Management and Peace Science* 28(4):377–401.
- Sechser, Todd S. 2018. "Reputations and Signaling in Coercive Bargaining." *Journal of Conflict Resolution* 62(2):318–345.

- Wolford, Scott. 2007. "The Turnover Trap: New Leaders, Reputation, and International Conflict." *American Journal of Political Science* 51(4):772–788.
- Wolford, Scott and Moonhawk Kim. 2017. "Alliances and the High Politics of International Trade." *Political Science Research and Methods* 5(4):587–611.
- Wright, John R. 2009. "Pivotal states in the Electoral College, 1880 to 2004." *Public Choice* 139(1-2):21–37.