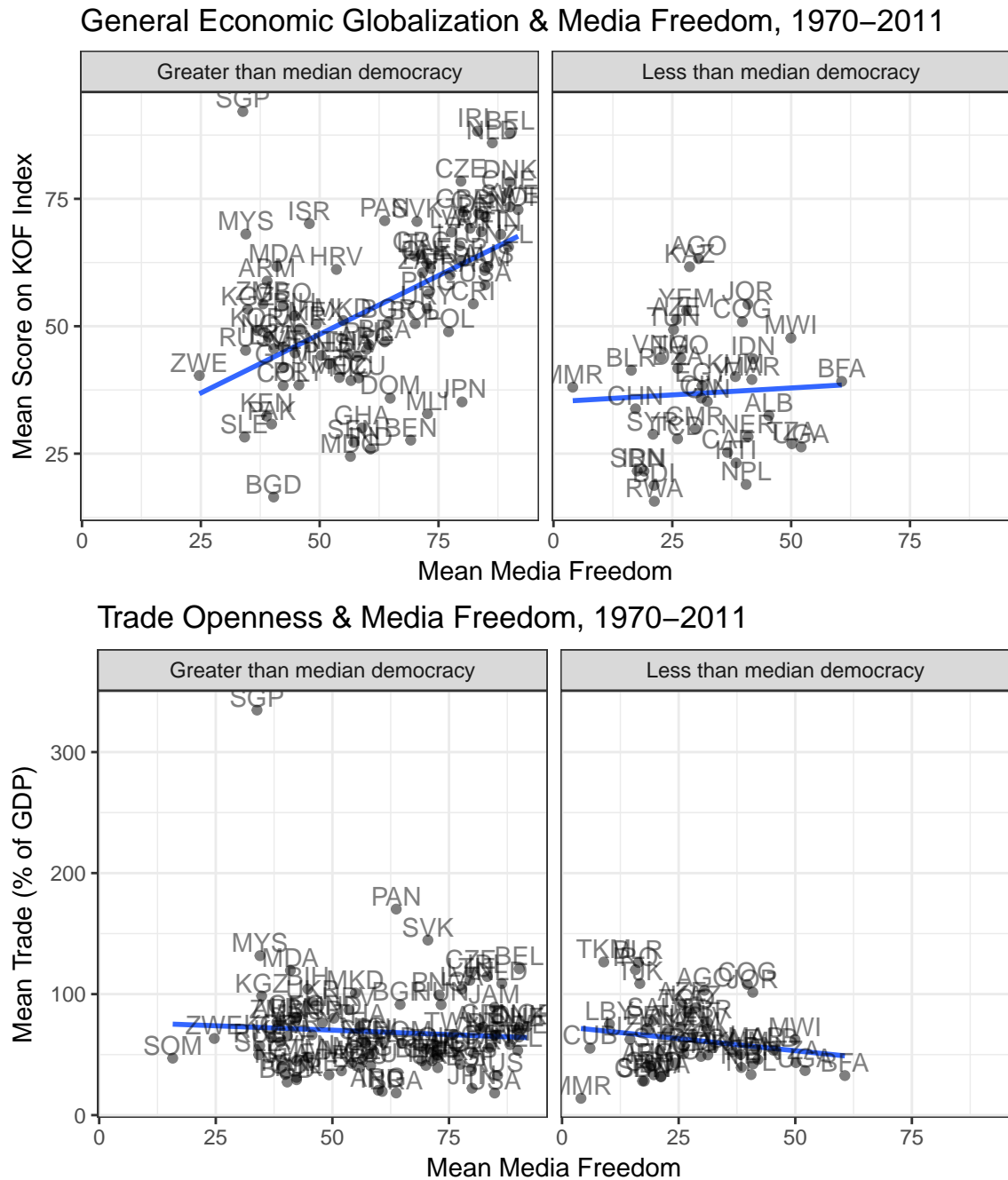


Why are More Trade-Open Countries More Likely to Repress the Media?

Given the conventional wisdom that democratic political institutions drive economic openness (Milner and Kubota 2005) and vice-versa (Eichengreen and Leblang 2008), it is surprising that since the 1970s, on average, those countries which have been more open to international trade have had lower levels of media freedom. Although overall economic globalization is positively correlated with media freedom around the world, the bivariate relationship between trade and media freedom is weakly negative. The bottom half of Figure 1 shows that for all available country-years between 1970 and 2011, those which engaged in higher levels of international trade had slightly more repressive media, on average, than those countries which were less open to international trade. This is true in both historically democratic and non-democratic countries, although the difference is most clear among countries with more democratic histories. Given the positive correlation found between media freedom and economic globalization as measured by the KOF index for overall economic globalization (Dreher, Gaston, and Martens 2008), the coincidence of higher trade openness and greater media repression is a surprisingly under-reported empirical puzzle in international and comparative political economy.

This puzzle points to a larger gap in research on the domestic effects of economic globalization. Scholars of international and comparative political economy (IPE/CPE) have not yet developed a serious theoretical and empirical account of how national media politics are likely to be affected by increasing integration of national economies. Much is known about the effects of economic integration on aspects of domestic politics such as

Figure 1: Media Freedom and Trade vs. General Economic Globalization, 1970-2011



See the section on Data, Method, and Research Strategy for a more detailed description of the data sources. The KOF Index of Globalization (1970-2011) is a 100-point scale reflecting the quantity of international trade and investment policy restrictions as well as flows of trade, FDI, FPI, and income paid to foreign nationals and capital (Dreher, Gaston, and Martens 2008, p. 43). Media freedom is measured on a dichotomous scale (Van Belle 1997; Van Belle 2000). Democracy refers to the 20-point scale from Polity IV (Marshall, Jaggers, and Gurr 2011).

political cleavages (Rogowski 1987; Rogowski 1989; Hiscox 2002a; Hiscox 2002b), growth rates (Rodriguez and Rodrik 2001); domestic spending (Rodrik 1998; Burgoon 2001); civil war (Reuveny and Barbieri 2005; Bussmann and Schneider 2007), and generic measures of democracy (Eichengreen and Leblang 2008; Li and Reuveny 2003). But very little is known about how economic integration affects national media politics. One exception is a working paper by Lewis (2014), which finds mixed but suggestive evidence that trade openness is negatively related to media freedom and foreign direct investment (FDI) is positively related to media freedom. Other research has considered whether political and civil liberties (broadly including freedom of the media) affect international economic flows (Antonis and Fragkiskos 2007) and the effect of media in economic reform (Coyne and Leeson 2004; Islam 2002). Yet scholars of international and comparative political economy have not yet furnished any systematic analysis relating the different components and dynamics of globalization to the domestic politics of media freedom.

This article provides the first systematic investigation of how one key component of economic globalization—international trade—shapes the direction and dynamics of domestic media freedom. On the one hand, economic openness in general might encourage national policymakers to promote media freedom because foreign investors are more likely to invest where information is reliable. On the other hand, because economic liberalization brings distributive conflict which can threaten governments, it also generates incentives for national policymakers to suppress information and communication. A crucial distinction, however, is that while international investors have a stake in the transparency of foreign countries, international traders do not. Therefore, I argue that trade openness should have a negative effect on media freedom because, in contrast to investment, trade brings no pressures which would counter-balance the repressive tendency generated by liberalization.

To test these expectations, I use a mixed-methods research design combining statistical analysis of a large panel of countries from 1972 to 2003 and qualitative process-tracing

on the cases of Argentina and Mexico.¹ Binary time-sectional, cross-series (BTSCS) analyses provide evidence that, unique among the components of globalization considered here, trade levels have a robustly negative association with media freedom in the long-run. Additionally, qualitative process-tracing on the cases of Argentina and Mexico in the 1990s, selected as relatively hard cases of consolidating democracies which for that reason predict media freedom, each provide some illustration of the mechanism relating trade openness to media repression.

The article makes three main contributions to research on the domestic effects of economic globalization and state-media relations. First, this article provides the first systematic investigation of an important but neglected political-economic relationship, and points to a new set of questions regarding the globalization-media nexus for political economy and media research agendas. Second, the findings contribute to research on the domestic politics of economic globalization and in particular research on the larger globalization-democracy nexus, highlighting a specific causal path through which economic liberalization can call forth media repression as a troublingly anti-democratic technique for negotiating domestic political conflicts. Third, the article will be of interest to scholars of state-media relations and public actors interested in media freedom because very little media research to date has systematically accounted for the ways in which international economic pressures shape states' tendencies toward or away from media freedom.

The article proceeds in five sections. The first section reviews previous research at the intersection of globalization, democracy, and the media. The second section presents a simple informal model of a national policymaker facing domestic backlash for the distributive conflicts brought on by an increase in economic openness, and deduces one main hypothesis regarding the effect of trade openness on media freedom. The third section explains the data, methods, and research strategy. The fourth section presents and discusses the quantitative and qualitative findings, and the fifth section concludes.

¹For a full list of countries, see Table 3 in Supplementary Information.

1 Globalization, Democracy, and Media

Previous research provides strong reasons to expect the global integration of markets to exert pressures on institutions of democracy, but there remains much theoretical uncertainty about the degree to which these effects are positive or negative. Many have argued that economic globalization generates economic growth which strengthens democratic institutions (Baghwati 1997; Im 1996), increases incentives for peace (Baghwati 1997; Oneal and Russett 1999), or diffuses democracy as a norm (Kant [1795] 1983; Limongi et al. 1996). On the other hand, many have argued that economic globalization is negatively associated with democracy because it rewards efficiency rather than popular sovereignty (Huntington and Dominguez 1975; Lindblom 1977; Cammack 1998), or because leaders may prefer to repress rather than compensate the domestic losers from increased openness (Adserà and Boix 2002).² Within the general debate surrounding the globalization-democracy nexus, some researchers such as Li and Reveuny (2003) have sought greater clarity by disaggregating the distinct types of international economic flows and considering them separately, but relying on standard aggregate measures of democracy. Li and Reveuny find that trade and portfolio capital have negative effects on democracy, while FDI and democratic norms have a positive effect, but their dependent variable of democracy is calculated with the common procedure of subtracting the Polity autocracy score from the Polity democracy score. Thus, despite much research on the relationship between economic globalization and democracy, and despite evidence that disaggregation is fruitful for understanding this nexus of relationships, relatively little is known about how different international economic flows affect the various institutions which separately constitute what we know as democracy.

In particular, very little research to date queries whether and how economic globalization shapes state policies regarding domestic media freedom. One exception is Lewis (2014), who finds that FDI inflows are positively associated with media freedom, trade levels are negatively associated with media freedom, and portfolio capital inflows have no

²See Milner and Mukherjee 2009 for a review of these debates.

discernible effect on media freedom. However, Lewis considers only levels of trade and year-by-year inflows of FDI and portfolio capital, whereas recent research shows that the distinction between flows (year-to-year movements) and stocks (the sum of all previous flows) is crucial in researching the effects of foreign investment on repression (Sorens and Ruger 2012). As discussed above, Antonis and Fillapaois (2007) consider the effect of civil liberties such as media freedom on FDI, but not whether any aspect of economic globalization affects civil liberties.

However, previous research on the relationship between markets and media more generally provides a basis for theorizing the relationship between economic integration and media freedom. Broadly, one tradition argues that the spread of markets and freer media are positively associated (Habermas 1991; Islam 2002; Islam 2003). However, an opposite tradition suggests that markets and the logic of profits and efficiency create incentives for authoritarianism (Huntington and Dominguez 1975). With respect to media politics in particular, Gehlbach and Sonin (2014) show that larger advertising markets are associated with nationalization of private media because, they argue, the benefits of state control increase with the advertising market. If economic liberalization tends to enlarge advertising markets by spurring economic growth, then liberalization might increase the state's incentives to repress private media just as it increases incentives to nationalize it. Furthermore, international economic integration brings the threat of social and political backlashes (Bussmann and Schneider 2007), which may require the state to compensate the domestic losers from globalization (Rodrik 1998) or, alternatively, repress them (Adserà and Boix 2002).

On the other hand, the literature on “competitive authoritarianism” suggests that increasing economic interdependence is one of the forces which has increasingly rendered traditional authoritarian repression unfeasible (Levitsky and Way 2002, pp. 60, 62). As a country becomes increasingly integrated with the world economy, it increases the costs of overt authoritarianism by increasing the salience of international opinion, increasing the voice of domestic opposition, and increasing the number of domestic actors affected

by international perceptions (Levitsky and Way 2006). For example, Fujimori in Peru in 1992 and Putin in Russia in 1993 failed in their efforts to overtly circumvent the legislature in part due to such international pressures (Levitsky and Way 2002, p. 56). International pressures against overt authoritarianism force regimes to adopt formally democratic institutions such as elections, but often leaves them free to violate human rights and civil liberties. For example, in the US-Mexico negotiations leading up to the North-American Free Trade Agreement, Mexican leaders made significant changes to present a front of democracy and respect for human rights to encourage investors, but there was no specific or formal conditionality which would have prohibited or even discouraged the repression of civil liberties if necessary.

At the same time, Levitsky and Way highlight the media as one of the four main arenas in which incumbent governments can contest and subvert international pressures to democratize. Competitive authoritarian governments may permit a formally independent and relatively free media, as in Peru, Serbia, Panama, or Nicaragua during the late 1980s and much of the 1990s, while engaging in alternative, more subtle tactics of repression, such as manipulative administrations of the law or tax code (Levitsky and Way 2002, pp. 53, 58).

While economic integration engenders distributive conflicts which tempt states to repress certain domestic groups at the same time it disincentivizes certain overt techniques of repression, governments around the world increasingly engage in strategic, authoritarian interventions into domestic media politics. Corrales and Westhoff (2006) find, for instance, that authoritarian regimes are more likely to develop television than internet, because television is more easily controlled. Additionally, many authoritarian regimes welcome the internet but actively pursue techniques of information control and manipulation on the internet in a networked fashion (MacKinnon 2011; Pearce and Kendzior 2012). These findings show that however much economic integration is making certain forms of repression obsolete, newer and more subtle techniques of media repression remain both attractive and viable.

As Antonis and Fillapaois point out, and as Lewis also argues, research on the relationship between globalization and democratic institutions likely shows contradictory results because different international economic flows exert different pressures. In light of this, I restrict my focus to international trade specifically to better understand the puzzling bivariate relationship between trade and media freedom highlighted in the first section. The following section provides a more deductive account of the expected effect of international trade on media freedom.

2 Theory and Hypotheses

Based on the review of previous research regarding the domestic political effects of international economic flows and the media politics of competitive authoritarianism, I develop a simple, informal model of how state-media relations should respond to international trade in particular. Consider a state which experiences a variable increase in some inward, international economic flow of trade, FDI, or FPI. This increased flow should increase the income of certain domestic groups and decrease the income of others, according to well-developed open-economy expectations (discussed below). The increased economic flow can be thought of as random and exogenous or the result of conscious state policy such as lowering tariffs. After experiencing the international shock, the media, if free to do so, would be expected to report on its causes and effects and therefore increasing public awareness of its distributive implications. Clearly, to the degree the media are not free to report on the international shock, they would not do so and public awareness of the distributive implications would remain lower than if the media had been free. If they are well-informed, a domestic group which experiences a negative income shock from economic liberalization would demand that the policymaker either close the domestic economy or compensate the group for its income loss, or else face rebellion. This rebellion could be electoral if the state is a democracy or a violent insurgency if the state does not have institutions to facilitate peaceful change. If the media is not free to report

on the political context and consequences of the international shock, the group which suffers an income loss would be less likely to mobilize around it. In this simple informal model, it is easy to see why free media are essential for domestic losers from globalization to exercise power in the domestic politics around the distributive outcomes of economic globalization. Where there is a free media, domestic losers from globalization are more likely to hold policymakers accountable because they are more likely to be informed and more likely to mobilize around this issue. Where the media are repressed, the losers from globalization should be less able to exact concessions or compensations from policymakers because they will be less informed and therefore less mobilized around this issue.

After increased international exposure occurs, the policymaker would prefer not to compensate the domestic group but prefers compensation to facing rebellion or closing the economy to *ex ante* levels. The policymaker can close the political process to any competitors to obviate the political pressure to compensate them (Adserà and Boix 2002), but the higher their level of integration, the more costly are overt types of repression (Levitsky and Way 2002). Supposing that a policymaker can choose among compensating the aggrieved domestic group, excluding competitors from the political process, or engaging in some repressive practices which vary on a continuum from overt to covert. In effect, we can conceptualize their utility function as including a penalty on overtness which increases with the country's economic integration, such that there is decreasing utility to overt forms of repression such as outright exclusion from the political process or government killings but this disutility approaches zero for repressive tactics which are relatively obscure such as the selective prosecution or financial targeting of opponents.

Among the less visible ways of exercising anti-democratic control, information-communication control will be uniquely attractive for the policymaker. This is because not only are repressive media tactics less severe than mass killings or canceling elections, but because control of the media could potentially tame international judgments independently by shaping what gets reported internationally. That is, control of the media can first minimize policymaker accountability for the adjustment costs of liberalization by suppressing

domestic dissent, but policymakers could also reasonably expect that suppressing information at home would decrease the flow of negative information abroad, promoting their international image in part by repressively shaping their image at home. In summary, increasing linkages to other states and international pressures raise the cost of overt repression for liberalizing states, which increases the attractiveness of more subtle, lower-visibility tactics for suppressing dissent against liberalization. Repression of the media stands out as uniquely attractive because it is a low-visibility, low-salience type of repression and because, if successful, it would tend to lower negative visibility in general.

2.1 The Politics of International Trade

Whereas some forms of international integration may impose pressures in favor of democratic politics, I argue that international trade imposes little such pressure. The reason is that for any given country's international trade, the foreign counterparties to this set of transactions have little direct stake in the social and political conditions of the home country. Therefore, international trade should generate pressures in favor of media repression as argued above, while generating little of the counter-balancing pressure in favor of media openness that might be expected from some other forms of international integration. To better develop this argument and crystallize the hypothesis, I now link the informal model described above to the politics of international trade more specifically.

The standard economic intuition explaining trade flows, although many sophisticated variations and extensions have been developed, is the well-known Ricardian theory of comparative advantage. Other things equal, countries will tend to specialize in producing for export those goods which they are most advantaged in producing, and import from foreign producers those goods which domestic producers are unable to produce as efficiently. International trade theory and much research in political science provides well-established expectations regarding the distributive effects of a country increasing its exposure to international trade. The standard Stolper-Samuelson model (1941) expects that increasing trade openness increases the income of the domestically abundant fac-

tor while decreasing the income of the domestically scarce factor. Thus, in capital-rich countries (industrialized or post-industrial countries), increasing trade openness benefits capital and harms labor, whereas in capital-poor countries increasing trade openness is expected to benefit labor and harm capital owners. In his benchmark study on the political consequences of these distributive expectations, Rogowski (1989) finds strong evidence that domestic political coalitions are empowered and disempowered by international trade as the Stolper-Samuelson model predicts. Hiscox (2002a) further refines these expectations by showing that the history is more finely explained by distinguishing the relative mobility of factors: when domestic factors are relatively immobile within the domestic economy, we do not observe class-based cleavages but rather sector-based cleavages and cross-class alliances, as immobility weds the interests of labor and capital to their shared industry. In turn, the threat of distributive conflict from international trade has been found salient enough to explain domestic political outcomes as diverse as the size of welfare states (Cameron 1978; Burgoon 2001) and the onset of civil wars (Bussmann and Schneider 2007).

The international counterparties to a country's international trade have a uniquely low stake in the political stability of the country, for the simple reason that the import and export of goods and services is not directly affected by the sanctity of civil rights such as freedom of expression or media freedom. Although emerging international norms of corporate responsibility and fair trade are increasingly visible in marketing for consumers in the wealthy democracies, these norms revolve around specific labor market issues such as child labor, "sweatshops", and wages paid to workers in developing countries (Moore 2004). Even if some consumers in the wealthy democracies are increasingly willing to pay for more humane production conditions in foreign countries (effectively an international tax on repressive production conditions), there is no evidence and little reason to believe that economic behavior in importing or exporting goods and services anywhere in the world is in any way responsive to the sanctity of significantly less salient civil rights such as media freedom. For instance, consumers in the global North may very well prefer to

pay premiums for coffee explicitly labeled as fair trade, but this provides no reason to expect they would pay more or less depending on whether the exporting country's trade agreements were facilitated by media repression. Similarly, if exporters in one country benefit from lowered tariffs in a foreign country, compared to FDI and portfolio investors, they have uniquely less at stake in the political consequences faced by the foreign country with rising imports.

Thus, trade openness should be associated with a higher probability of media repression as it generates domestic distributive conflict but exerts little conceivable pressure in favor of a free media. If true, this would explain the puzzlingly negative correlation between international trade and media freedom despite the positive association between media freedom and most other components of economic globalization. To summarize, while theoretical expectations regarding the effects of FDI and FPI on media freedom are ambiguous, I have argued that trade openness is likely to have a uniquely negative effect on media freedom. Thus, for the present article I focus attention on testing one hypothesis, namely,

H1: Trade openness decreases the probability of media freedom.

3 Data, Method, and Research Strategy

To test the hypothesis, this article pursues a mixed-method research design employing large-N statistical tests and qualitative within-case analysis on two historically important cases. The intuition behind this research strategy is that statistical analyses are necessary to disentangle the hypothesized effect of trade from rival hypotheses represented by multiple control variables, while qualitative analysis is necessary for corroborating the existence of a causal process.

In the quantitative analyses, I use state-level economic data collected by Sorens and Ruger (2015) for the main independent variables of interest for all available countries between 1976 and 2003. *FDI* and *FPI* refer to logged stocks of each investment type,

whereas ΔFDI and ΔFPI refer to changes in logged stocks (i.e., flows), all as percentages of GDP. *Trade* and $\Delta Trade$ refer to levels and changes of international trade, respectively, also as percentages of GDP. For the dependent variable, I use the Global Media Freedom Dataset by Whitten-Woodring and Van Belle (2000; 1997), which is the most comprehensive measure of media freedom to date. The Global Media Freedom Database provides an ordinal measure of media freedom with four levels but this variable reduces to a dichotomous variable capturing the distinction between not free and “functionally free” media. Country-years which take a value of “not free” are those where it is unsafe to criticize the government in the media or the government directly controls all news media. Countries which take a value of “functionally free” are those where there may be “social, legal, or economic costs” to criticizing the government in the news media but criticism of government still regularly takes place.³

To reduce the possibility of spurious results from omitted variables, the analysis includes a battery of control variables which are expected to shape the probability of media freedom independently of economic openness. First, it is well known that democratic institutions are positively associated with media freedom (Islam 2008, p. 13). Economic development—especially through the mechanism of increasing financial independence from advertising revenue—is also a strong driver of media freedom (Petrova 2011; Lawson 2002). To control for the effect of democratic institutions, the models include the variable *Democracy*, which is the conventional Polity IV measure on a 21-point scale (Marshall, Jaggers, and Gurr 2011). To control for economic development, the models also include *GDPpercapita*, which is equal to logged real GDP per capita in purchasing power parity (*Penn World Table Versions 7.1*). In subsequent analyses, I consider a range of control variables. First I consider variables which could plausibly affect media freedom by increasing domestic conflict through causal pathways independent of the distributive conflict hypothesized to result from economic openness. These include *Religiousfractionalization*, *Ethnicfractionalization*, *Civilwaronset* for the first year

³For greater detail, see “Guidelines for using the Global Media Freedom Dataset” available from the authors.

of any civil war, and *Civilwarpresence* for all other years of any civil war. Second, because oil-rich states are less likely to have free media than oil-poor countries (Egorov, Gurieva, and Sonin 2009), I also include the dummy variable *Oil*, which is equal to one for any country-year in which fuel exports exceed one-third of export revenues (Fearon and Laitin 2003). Finally, I consider internet penetration rates, as the spread of the world wide web decreases the feasibility of controlling the flow of information and therefore increases the probability of media freedom.

To further investigate the quantitative findings and enhance our understanding of the key puzzle motivating this paper, a following section offers two within-case analyses which trace the process whereby trade liberalization is expected to exert pressure on domestic media freedom. For reasons of data availability and to help control for confounding spatial and temporal factors, I consider Argentina and Mexico in the period between 1993 and 2003, two “third-wave” democracies from the same region in the same time period. These countries are analytically well-suited for further examination because they both democratized beginning in the 1980s and were consolidating in the 1990s. In autocratic regimes, even if we observed instances where media repression follows economic liberalization, it would be hard to infer that liberalization caused media repression because the media repression could be a function of autocracy in general. On the other hand, if media repression follows economic liberalization in countries which are otherwise politically liberalizing, it will be more credible to infer that economic liberalization was a causal factor. Indeed, Argentina and Mexico are least likely cases to expect media repression at this time because Argentina’s Carlos Menem and Mexico’s Carlos Salinas were championed by American politicians as models of democratic economic liberalization. If these celebrated cases of relatively democratic economic liberalization display evidence of the hypothesized mechanism, then it is likely to take place in less democratic liberalizations as well. Another reason why these are hard tests is that, on the scale of the Global Media Freedom Database, both of these countries during this time period had functionally free media. Leveraging Freedom House’s continuous measure of media freedom and

qualitative evidence, I ask whether it is possible to observe the mechanism at a finer granularity than that provided by the dependent variable in the quantitative analysis (Freedom House 2011).⁴ This approach is therefore also a robustness check on the dichotomous dependent variable in the statistical models. Substantively, Latin America is an attractive region for further study because Latin America is typically considered the first region where democracies were able to implement politically difficult stabilization policies. In the 1970s, it was a puzzle how economic liberalization would ever be achieved in democratic settings, given the status quo bias of elected politicians and the popular support for protectionist policies. An implication of this paper's argument, however, is that even in formally democratic countries economic liberalization may in some cases induce anti-democratic tactics such as media repression. If this argument is correct, then substantively it would be most rewarding to better understand these cases which the conventional wisdom holds to be relatively democratic success stories. Additionally, Mexico, unlike Argentina and many other Latin American countries, did not experience a deeply repressive military junta in the twentieth century. Thus, if it is plausible that a government's historical legacy of repression could alone make media repression in a later period more or less likely, then we can be confident this is not an unobserved variable generating outcomes in both Mexico and Argentina.

Specifically, I offer two short, "disciplined-configurative" case studies for the purpose of better understanding these historically important cases and to further test for the presence of a causal process (Bennett and George 2005, p. 75). I use a combination of structured, focused comparison and process-tracing, asking specific questions about the hypothesized process in each case and weighing the empirical results against what the theory expects. Specifically, I ask the following three questions. What was the policy background as well as the magnitude and timing of trade exposure? What was the magnitude and timing, if any, of social unrest and was it observably in response to the distributive effects of trade? What was the magnitude and timing, if any, of government

⁴Freedom House measures press freedom on a continuous scale from 0 to 100 beginning in 1994.

efforts to restrict freedom of the media? After investigating the historical record, I outline the answers to these questions and discuss how well they fit the theoretical model.

4 Quantitative Analysis

Table 1 presents the results of 6 logistic regressions, appropriate for dichotomous dependent variables, modeling the probability of observing media freedom in country_{*it*}.⁵ Before analysis, all variables were rescaled by subtracting the mean and dividing by two standard deviations so that the displayed coefficients reflect the expected effect of a two standard-deviation increase in the independent variable, holding the others constant at their means.⁶ Each logistic regression is estimated using robust (heteroskedastic and autocorrelation consistent) standard errors, and includes a natural cubic spline of time to control for autocorrelation (Beck, Katz, and Tucker 1998).

Model 1 represents a baseline model of media freedom as a function of only levels and first differences of democracy and GDP per capita, and a natural cubic spline of time. Given that data for trade and FDI are substantially more plentiful than data for FPI, Models 2-4 add to the baseline model levels and changes in each component of economic globalization successively. Model 5 considers levels and changes of trade and FDI simultaneously, but omits FPI because FPI has significantly fewer observations. Model 6 adds to Model 5 levels and changes in FPI, despite significant sample attrition. Model 5 is arguably the preferred model for estimating the effect of trade on media freedom for two reasons. First, it retains a very high proportion of those country-years for which there exists trade and media freedom data while also controlling for most competing explanations. Second, although it does not control for the effects of FPI, this omission is not problematic for the purpose of hypothesis-testing because it reduces the magnitude of the estimated trade effect from Model 6 and therefore represents a more

⁵The tables in this article were generated in R using the *stargazer* package (*stargazer: LaTeX code and ASCII text for well-formatted regression and summary statistics tables*).

⁶This makes the regression coefficients for continuous predictors directly comparable to binary predictors (Gelman 2008).

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Intercept	0.28 (0.18)	0.16 (0.18)	0.30 (0.75)	-1.62** (0.63)	0.06 (0.77)	-1.17 (1.27)
Democracy _{t-1}	4.66*** (0.11)	4.66*** (0.11)	4.67*** (0.12)	5.44*** (0.23)	5.00*** (0.14)	5.37*** (0.26)
ΔDemocracy	0.63*** (0.06)	0.63*** (0.06)	0.64*** (0.06)	0.68*** (0.12)	0.67*** (0.08)	0.69*** (0.13)
GDP per capita _{t-1}	0.31*** (0.09)	0.40*** (0.09)	0.23* (0.10)	-0.06 (0.20)	0.14 (0.16)	0.34 (0.32)
ΔGDP per capita	0.11 (0.08)	0.12 (0.08)	0.17 (0.09)	-0.22 (0.20)	0.10 (0.11)	-0.29 (0.22)
Spline 1	-0.45** (0.17)	-0.34* (0.17)	-0.51 (0.43)	-0.01 (0.40)	-0.17 (0.44)	0.55 (0.76)
Spline 2	-1.90*** (0.43)	-1.62*** (0.43)	-1.97 (1.57)	2.20 (1.34)	-1.31 (1.62)	1.71 (2.64)
Spline 3	0.21 (0.13)	0.37** (0.13)	0.11 (0.28)	0.97*** (0.26)	-0.51 (0.37)	1.41* (0.59)
Trade _{t-1}		-0.35*** (0.09)			-0.87*** (0.13)	-1.69*** (0.23)
ΔTrade		-0.11 (0.07)			-0.16 (0.09)	-0.18 (0.22)
FDI _{t-1}			0.15 (0.10)		0.16 (0.13)	-0.65** (0.25)
ΔFDI			0.03 (0.09)		0.12 (0.10)	0.06 (0.16)
FPI _{t-1}				0.33 (0.20)		0.49* (0.23)
ΔFPI				0.28* (0.13)		0.24 (0.14)
Oil _{t-1}					-0.11 (0.15)	-0.86*** (0.22)
Internet _{t-1}					0.93*** (0.22)	0.52 (0.34)
Ethnic Frac. _{t-1}					0.46*** (0.11)	0.42* (0.19)
Religious Frac. _{t-1}					0.25* (0.10)	0.24 (0.16)
Civil War Onset					-1.25*** (0.37)	-0.86 (0.64)
Civil War Ongoing					-1.01*** (0.13)	-0.90*** (0.20)
AIC	4501.12	4488.90	3820.80	1685.60	3155.83	1471.30
BIC	4555.74	4557.17	3887.23	1744.69	3273.38	1587.95
Log Likelihood	-2242.56	-2234.45	-1900.40	-832.80	-1559.92	-715.65
Deviance	4485.12	4468.90	3800.80	1665.60	3119.83	1431.30
Num. obs.	6814	6814	5673	2722	5067	2522

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

Table 1: Statistical models

conservative estimate than that generated by inclusion of FPI.

Model 1 indicates that levels and first differences of democracy and levels of GDP per capita have positive, statistically significant partial correlations with media freedom. Indeed, this simple model of media freedom already correctly classifies 5838 cases, 85.68%. The coefficients for the natural cubic splines are statistically insignificant except for the third.

Controlling for these baseline predictors of media freedom, Model 2 provides the first evidence for the hypothesis that trade has a negative effect on media freedom, revealing a negative coefficient for level of trade which is statistically significant at a 99.9% confidence level. However, the statistically insignificant coefficient for first differences of trade level suggests that liberalization of trade does not have immediate, short-run effects on the probability of observing media freedom. Because democracy and GDP per capita already explain a high proportion of cases, it is unsurprising that Model 2 only increases the number of correctly classified cases by 1. The lower log-likelihood and AIC values for Model 2 compared to Model 1 nonetheless suggest that inclusion of trade as a predictor of media freedom improves model fit. The implication is that while trade only marginally improves predictions of media freedom compared to predictions based on democracy and GDP per capita alone, predictions based on only democracy and GDP per capita would over-estimate the contribution of democracy and GDP per capita relative to trade.

Considering FDI and FPI, Models 3 and 4 suggest that FDI has no appreciable effect on media freedom while FPI levels and first differences have a positive effect on media freedom. Model 5 provides additional support for Models 2 and 4, again suggesting that trade levels have a negative effect on media freedom and FDI has no appreciable partial correlation with media freedom.

Finally, Model 6 provides additional evidence that trade has a negative effect and FPI has a positive effect on media freedom, controlling for several alternative explanations. Interestingly, Model 6 also provides some support for a long-run negative effects of FDI on media freedom. As predicted, internet is positively associated with the probability of

media freedom in Models 5 and 6, though the effect is only statistically significant at the conventional cutoff in Model 5. Both measures of civil war have a negative association with media freedom in both Models 5 and 6, though *CivilWarOnset* does not meet conventional statistical significance in Model 6. Interestingly, ethnic fractionalization is positively associated with media freedom in Models 5 and 6, whereas oil and religious fractionalization are each signed as expected but only statistically significant in one of the two final models.

As logit estimates are not conveniently interpretable, the top half of Figure 2 illustrates the long-run expected probability of observing media freedom in $country_{it}$ given different levels of international trade.⁷ The expected probability of observing media freedom given the minimum observed trade openness, with mean values on all other variables in the model, is 0.86. Increasing international trade to the mean of the sample 4.06 would be expected to decrease the probability of media freedom by 0.51 to 0.35.

The bottom half of Figure 2 illustrates how the expected probability of observing media freedom in $country_{it}$ is expected to change in the short-run in response to yearly changes in level of international trade. The expected probability of observing media freedom in a country with a mean trade level of 4.06 but zero change in trade is 0.37. A yearly increase in logged trade of 0.15, a yearly change of trade one standard deviation above the mean yearly change, would be expected to decrease the probability of media freedom by 0 to 0.37.

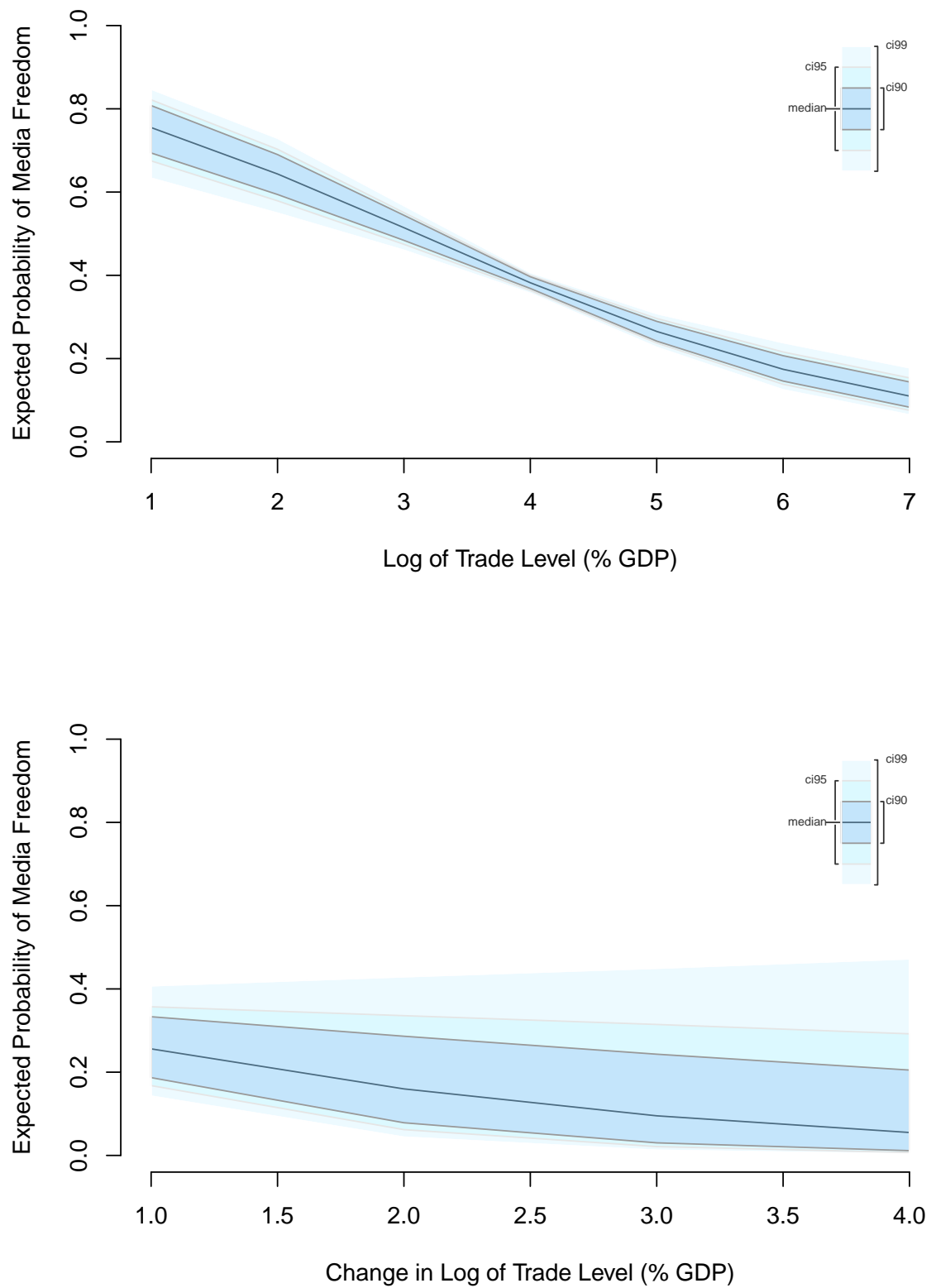
4.1 Outliers

Considering Bonferonni-adjusted p-values for the largest Studentized residual in Model 5 using a normal distribution test, we fail to reject the null hypothesis that there are no outliers.⁸ While there is no evidence of problematic regression outliers, the right-skew of

⁷All discussion of predicted probabilities are based on 1000 simulations of the model. The simulations were conducted in R with the package *Zelig* (2009).

⁸Numerical results are not reported for the sake of brevity but are reproducible from the replication repository.

Figure 2: Simulated Effect of Trade on Expected Probability of Media Freedom



trade openness raises the possibility that the negative relationship between trade openness and media freedom is disproportionately driven by cases of extreme trade openness and does not accurately reflect most cases. The main regression results already mitigate this possibility by using the log of trade openness, which significantly compresses its distribution. Yet even the log of trade openness contains 107 observations greater than 1.5 times the interquartile range and the first differences of logged trade openness contain 340 such observations. Removing these observations from Model 6 decreases the magnitude of the coefficient (.98) but it remains signed as expected, still larger than the estimate of Model 5, and statistically significant at the 99% confidence level.⁹ In summary, there appears little reason to believe that the model results presented here are artifacts of regression outliers or extreme cases of trade openness.

4.2 Bayesian Model Averaging

An idiosyncratic search for optimal model specifications can lead to publication bias (as researchers will tend to prefer models that confirm their hypotheses), decreased efficiency (if researchers include too many unnecessary control variables), and incomplete representations of model uncertainty and sensitivity (Montgomery and Nyhan 2010, p. 2). One technique for gauging the robustness of particular independent variables against model uncertainty is Bayesian Model Averaging (BMA), which estimates all possible models from a set of variables and calculates posterior probabilities for all possible coefficients and models (Montgomery and Nyhan 2010, p. 4). BMA allows analysts to identify the most likely models given data, and then the probability particular independent variables will appear in the most likely models.

To check the robustness of the estimates reported above, this subsection reports results from a BMA analysis of the entire model space of Model 6. Because this article focuses on disentangling the effects of economic globalization on media freedom, the analysis includes the full battery of economic globalization indicators, despite the relatively limited

⁹For full model results, see Table 5 in Supplementary Information.

availability of FPI data. In a subsequent analysis discussed in the appendix, I conduct BMA on the significantly more data-rich model space of Model 5. The BMA analysis uses uniform priors for all independent variables.¹⁰

The results suggest that levels of trade openness have a robust negative effect on media freedom. Lagged levels of trade openness have a negative and statistically significant association with media freedom in 100% of the 9 model specifications with the highest posterior probabilities. While levels of FDI have a negative association with media freedom in some models, the probability of this association appearing in the 9 most likely models is only .13. Stocks and flows of FPI are positively and significantly associated with media freedom, but only with .26 and .33 probabilities, respectively.

4.3 Endogeneity

As democracy affects trade levels (Milner and Kubota 2005), it is possible that changes in media freedom affect trade levels for the same reason, as pro-trade or anti-trade domestic groups politically empowered by free media shape trade policy toward greater or less openness. If media freedom affects trade policy, then the regression estimates in Table 1 would be incorrect. I consider this possibility in two ways. First, if reverse causality is present and creating bias in the regression estimates, then some regressors should be correlated with the error term (endogeneity). Diagnosing this question manually reveals that the correlation coefficient for trade openness and the residuals is 8.92×10^{-16} and does not exceed 1.04×10^{-15} for all other independent variables in Model 5, providing no obvious evidence of endogeneity. Second, I estimate a series of ordinary least-squares (OLS) regressions modeling the trade variable as a function of lagged values of media freedom, including fixed effects for year and country.¹¹ A simple model with no controls other than fixed effects and a second model controlling additionally for levels and changes of democracy and economic growth both suggest that lagged values of media freedom have

¹⁰The analysis was conducted using the *bic.glm()* function in the R package *BMA* (*BMA: Bayesian Model Averaging*).

¹¹See Table 5 in Supplementary Information for full results.

Figure 3: BMA: Occurrence of variables in most likely models

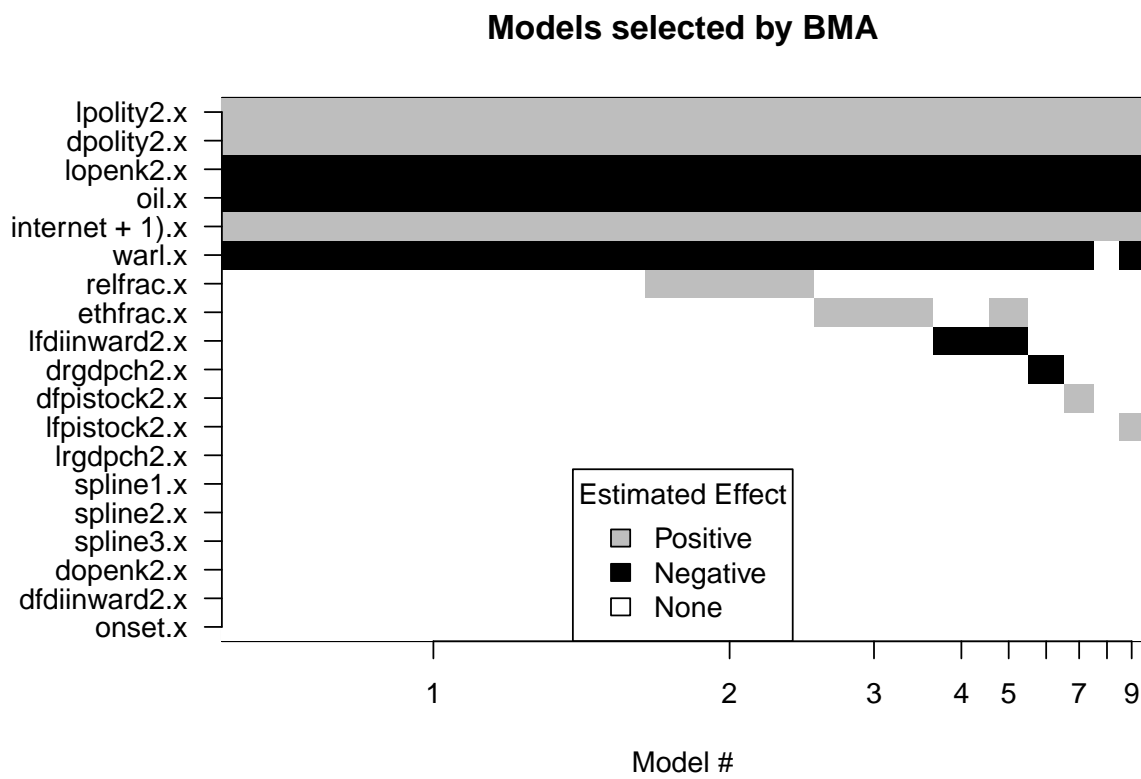
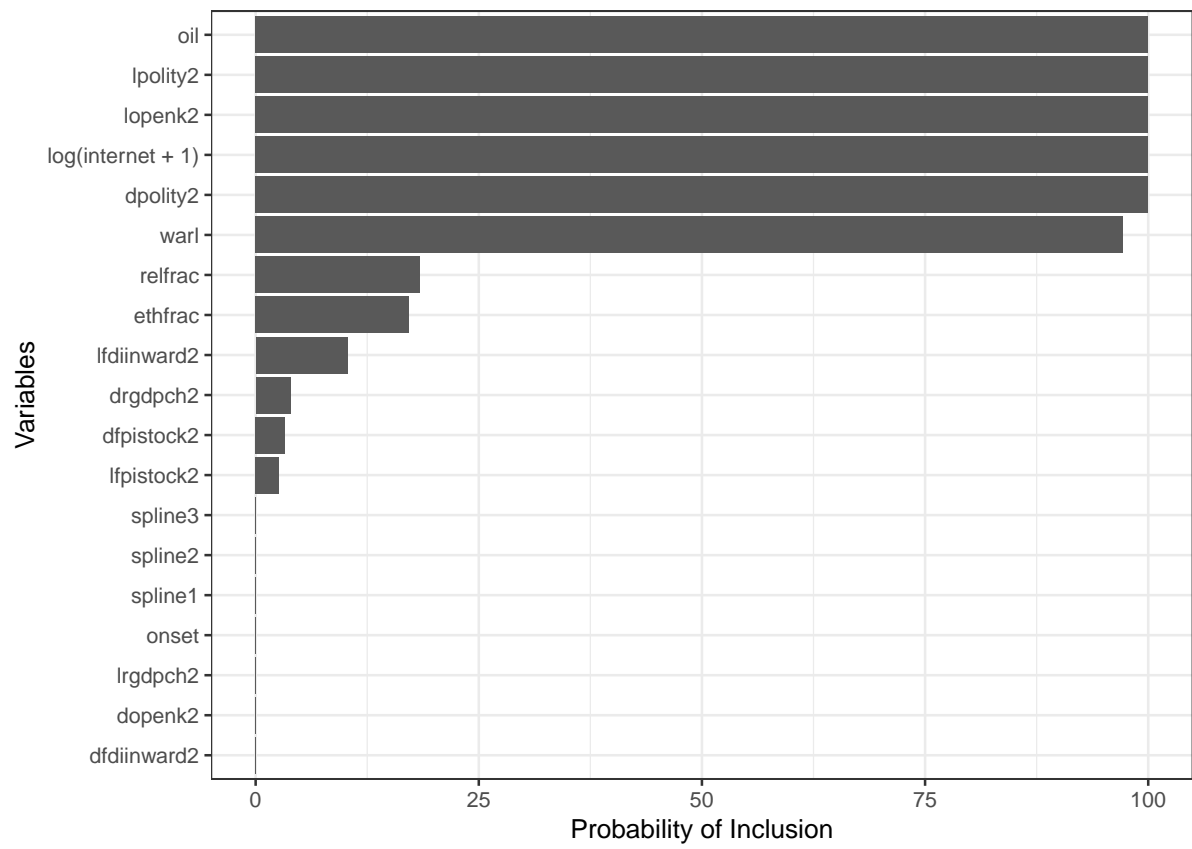


Figure 4: BMA: Probabilities of inclusion



a positive and significant effect on trade levels. A third model controlling for lagged levels of trade openness suggests media freedom has no statistically distinguishable association with level of trade openness. Thus, the only evidence of reverse causality suggests that media freedom could possibly have a positive effect on trade openness. This is not problematic for the central argument that trade has a negative effect on media freedom because the direction of the effect would, if anything, bias the estimates in Table 1 upward. That is, to the degree media freedom increases trade, this would not lead to spurious evidence in favor the central argument but would rather lead to underestimating the negative effect of trade on media freedom. Given these two checks, the estimated negative effect of trade on media freedom appears robust to the threat of reverse causality.

4.4 Matching and Sensitivity Analysis

Another problem for regression analysis of observational data is that if the propensity for units of analysis to realize certain values on an independent variable of interest (in this case, trade openness) is shaped by some other variable, estimates for that independent variable will be biased. To mitigate the risks of this problem, I use a genetic matching search algorithm to automatically create a subset of the original sample which is optimally balanced with respect to the other covariates (Diamond and Sekhon 2012; Sekhon 2011). If any of the observed covariates shape the propensity of a unit to realize higher levels of trade openness, which would lead to biased estimates of trade’s effect, the algorithm identifies the weights which need to be applied to each covariate to create matched pairs of treatment and control units to optimize balance in the propensity to be treated. After this procedure, the average treatment effect for the treated will approximate that which would be inferred from a randomized experiment, assuming of course that there is no unobserved factor shaping the propensity to be treated omitted from the matching procedures. While the risk of omitted variables is impossible to rule out, it is possible to quantify the sensitivity of matching estimates to a hypothetical, unobserved source of bias. Thus, I also report sensitivity bounds following the procedures developed by Rosenbaum (1988),

in order to state how large an unobserved source of bias would have to be to account for the estimated treatment effect. For this analysis, I used the full set of economic openness variables (Model 6) because, if it is plausible that FDI and FPI are associated with a country's propensity to realize trade openness, it would be necessary to estimate the effect of trade from countries balanced with respect to these variables as well as the control variables.

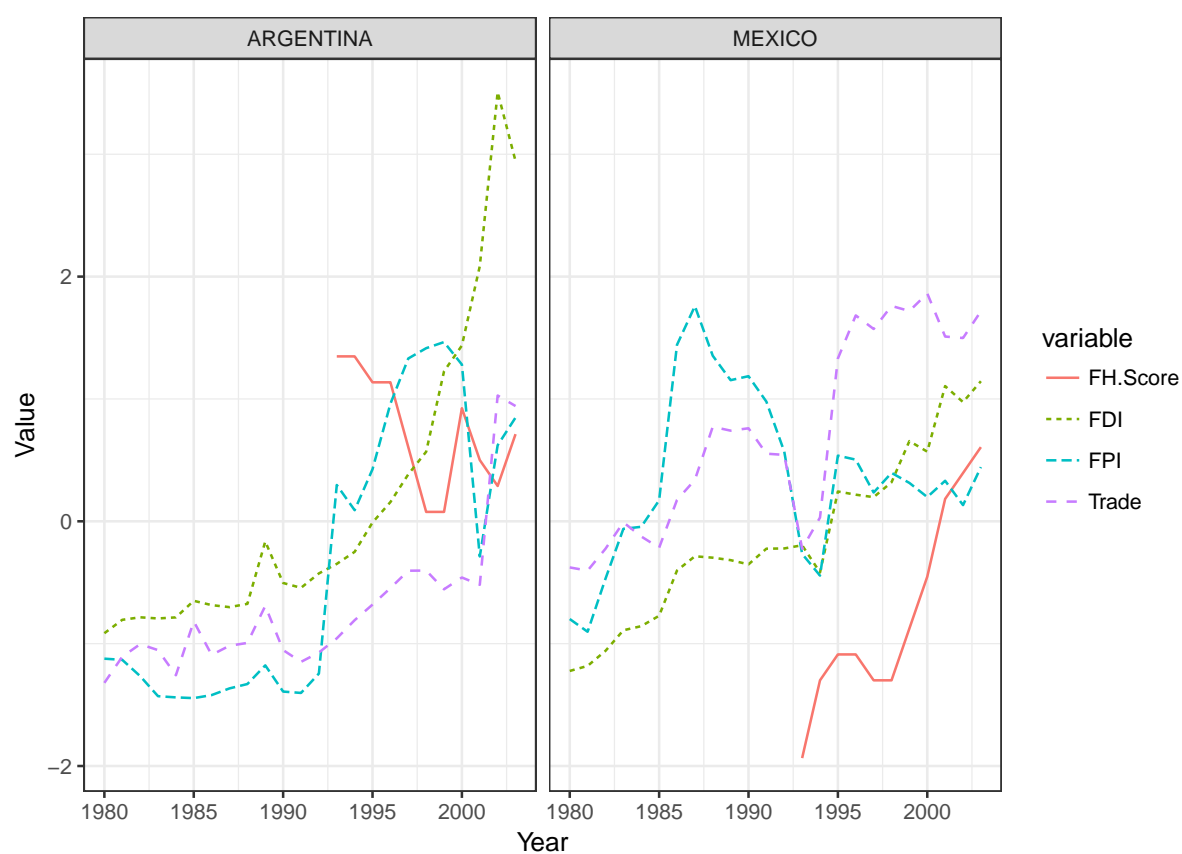
The average treatment effect from a logged trade level greater than the mean is -0.08, with a standard error of 0.02 and a p-value of 0.0002. The matching estimate is signed consistently with the findings of the previous sections and statistically significant at the 99% level. Calculation of Rosenbaum bounds suggests that, for this effect to become statistically insignificant at the 95% confidence level, the odds of differential assignment due to an unobserved factor would have to be about 2.26.¹² Thus, it is unlikely that the negative relationship between trade openness and media freedom estimated in the main models is merely an artifact of non-random assignment into the treatment of trade openness.

4.5 Qualitative Within-Case Analysis: Argentina

Immediately upon inauguration as President in 1989, Carlos Menem announced a package of neoliberal economic reforms which include liberalization of international trade and capital flows, as well as privatizations and spending cuts (Tommasi and Velasco 1995, p. 189; Borner and Kobler 2002). In the beginning of 1989, the average tariff rate is 39% (a maximum import tariff was 50% with a tariff surcharge of 15% on all imports). By the end of 1989, the maximum tariff is 35% and the average tariff rate falls to 12%. In 1990, all import licensing requirements are abolished and tariffs are reduced across-the-board to 21%. By 1995, the average unweighted tariff is 10.5% and non-tariff barriers as well as export restrictions are removed. Exemptions were made for IT, domestic appliances, and

¹²Rosenbaum bounds for a binary dependent variable are calculated using the *binarysens()* function in the R package *rbounds* (Keele 2014).

Figure 5: Globalization and Media Freedom in Argentina and Mexico, 1980-2003



Values are scaled to represent standard deviations from a mean of zero. Economic variables are measured as shares of GDP, as discussed in the main text. Freedom House Freedom of the Press Scores are on a 0-100 scale.

autos. As a result, imports increased from \$4.1 billion in 1990 to \$21.6 billion in 1994, while exports increased from \$3.7 billion to \$20.1 billion at the same time (Beker 2011, p. 7).

As import competition put pressure on previously protected firms, there was a 30% decrease in manufacturing employment between 1992 and 1996. In those industries where import penetration increased the most, wage inequality also widened during this period. Argentina's Gini coefficient for income inequality, one of the lowest in Latin America at the time, increased from 40.0 in 1991 to 47.4 by 1998 (Galiani and Sanguinetti 2003, p. 505; Beker 2011, p. 11).

Argentina will join the Mercosur customs union in 1991 and sign a trade agreement with the United States in 1994. The reform package largely succeeded in taming inflation rates and growing the economy. The inflation rate shrinks from 5% in 1989 to .16% by 1996 and gross domestic product grows by 40% between 1990 and 1994 (Beker 2011, p. 4). The IMF, World Bank, and the US government saw Argentina as a model student in this period (Cavallo 2004a, p. 142; Cavallo 2004b; Klein 2002, p. 167) and is frequently cited in leading global publications such as *Time International* as a poster child for how neoliberal economic reforms should be implemented (*Time International* 1992, as cited in Echegaray and Elordi 2001, p. 194; Marcus-Delgado 2003; Silverstein 2002).

Although the reform package succeeds in taming Argentina's hyperinflation and creating economic growth, the most immediate and direct effect of trade liberalization was an increase in unemployment, especially among the workforce employed in previously protected, labor-intensive industries (Beker 2011, p. 10). Additionally, trade liberalization reduced the income of small-scale producers who could not compete with cheap imports (Eckstein and Merino 2001). Although trade liberalization is costly to the sizable constituencies of unskilled industrial workers and rural campesinos, the government provides little public support for dislocated workers—reducing rather than increasing public spending—until the government develops a targeted income-assistance program during the currency crisis of 2001. This lack of government responsiveness between 1990 and

2001 is puzzling given the longstanding expectation that governments, and especially democratic regimes, must compensate domestic losers from liberalization in order to sustain a sufficient political coalition in favor of liberalization. This expectation should be especially strong for democratic governments, yet, despite the absence of government compensation, Argentina sees relatively little domestic conflict around trade liberalization. In fact, there are fewer strikes, strikers, and days lost to strikes than under Alfonsín (Eckstein and Merino 2001). Yet, dissent against liberalization was an observable current in public discourse in the years before Menem's repressive media regulations. It is worth noting that some of the media scandals related to government corruption were themselves linked to international economic openness. For instance, the aggressive Argentine daily *Página/12*, whose journalists were frequent targets of violence, sparked a scandal when they reported on the Menem administration requiring "substantial payment" from the meatpacking firm Swift-Armour before they were allowed to import machinery into the country. Another highly publicized revelation involved the complicity of government officials in an international drug-laundering network (Waisbord 1994). Most notably in road blockages organized by protesting farmers in 1991 and 1993, unfair international competition was a recurring point of dissent (McCullough 1991; Ferber 1993).

If the Menem regime neglected to make provisions for its harmed constituencies, how was it able to enact and sustain dramatic trade and capital liberalization in a formally democratic setting? The theory presented here expects that the Menem government is likely to repress the media in order to silence domestic opposition to liberalization while maintaining a formally democratic front. Consistent with the theory, the quantitative data reveal that after a long and stable period of stable economic openness and media freedom under Alfonsín, media freedom is volatile immediately after Menem's liberalization begins until it is stably repressed by 2005. According to a report *Agresiones a La Prensa 1991-1994* published by the Asociación Madres de Plaza de Mayo, around 452 acts of aggression were committed against the press between 1991 and 1994 (Delgado 1995, as cited in Park 2002, p. 247). Acts of aggression refer to murder, death threats, bombings,

bomb threats, intimidation, physical violence, violent threats, and termination of broadcasts. If one were to count acts of excluding media from access to the government and public name-calling of the media by the government, the figure would be 546. Although not perpetrated directly by the state, during this period there were many acts of violence against investigative journalists critical of the Menem regime, acts which the government denounced but treated with impunity (Long 1993). The Menem family's most direct actions against media freedom were cuts to state advertising in *Pagina/12* (Waisbord 1994, p. 27), 11 lawsuits against journalists under the pretense of criminal defamation (McCullough 1991), proposals to increase libel and defamation sentencing, and a proposal to require media outlets to purchase prohibitively expensive libel insurance (Sims 1995).

4.6 Qualitative Within-Case Analysis: Mexico

As in the case of Argentina, Mexico's trade liberalization in the 1990s was part of a larger national project of neoliberal economic reform. Well before signing the North American Free Trade Agreement (NAFTA) with the United States and Canada in 1994, Mexico unilaterally lowered tariffs from an average of 25% in 1985 to 13% by 1993 (McDaniel and Agama 2003).

Concurrent with unilateral trade liberalization and NAFTA, and as in the case of Argentina under Menem, the Mexican government also privatized many state-owned enterprises and eliminated many state subsidies and price controls originally intended to support small farmers. Most subsidies for corn and wheat producers and retail food price controls were eliminated by 1991 (Hufbauer and Schott 2005, p. 295). In 1999, the Mexican government abolished CONASUPO, the state agency which bought staple crops at guaranteed prices and redistributed them to consumers (Villareal 2010, p. 12).

After NAFTA, US imports from the US increased from \$50.8 in 1994 to 100.4 billion in 2000 (Villareal 2010, p. 10). As in the case of Argentina, trade liberalization through the 1990s hurt small farmers and non-skilled manufacturing, as agricultural employment decreased from 8.1 million in 1993 to 6.8 million jobs in 2003, and value added decreased

from \$32 billion to about \$25 billion in the same period.(Hufbauer and Schott 2005, p. 289; Villareal 2010, p. 14).

Also as in Argentina, increasing trade liberalization in Mexico led to increased wage inequality between skilled and non-skilled labor. In 1988, the real average wage level of skilled Mexican workers in the manufacturing sector was 225% that of non-skilled workers. In 1996, it was about 290% that of non-skilled workers, stabilizing until 2000 (Villareal 2010, p. 9).

To support the transition into NAFTA, the government enacted the Programa de Apoyos Directos para el Campo (Program of Direct Support for the Countryside or Procampo), which provided farmers with direct, hectare-based income support. However, in part due to austerity following the peso crisis, total expenditure on Procampo decreased from \$1.4 billion to \$1 billion (Hufbauer and Schott 2005, p. 295), despite the price of corn in Mexico falling from \$4.84 per bushel in 1993 to \$3.65 in 1997 (Villareal 2010, p. 12), the total number of supported farmers decreased from 3.29 million to 2.95 million, between 1994 and 1998 (Hufbauer and Schott 2005, p. 295).

On the day NAFTA went into effect in January 1994, the Ejército Zapatista de Liberación Nacional (EZLN) launched an armed uprising in one of Chiapas, one of Mexico's southernmost states. On that very first day of the uprising, EZLN spokesperson Subcomandante Marcos declared NAFTA to be nothing more than a death sentence to the indigenous ethnicities of Mexico and their uprising to be understood as a response to the decree of death that the Free Trade Agreement gives them (*La Jornada* 1994, as cited in Hayden 2009, p. 216).

Although Procampo helped gain support for NAFTA, immediately there was popular discontent, such as in the Barzón Farmers movement in Zacatecas, regarding several inadequacies of the program, including payments not being made (Williams 2001, p. 173). From 1993 to 1995, the Barzón movement sought and received much favorable attention in the print media, where reporters were not under great pressure to suppress reports (Williams 2001, p. 187).

Neoliberal economic reforms, including increasing trade openness, somewhat surprisingly in light of our expectations although not exactly contradicting them, led to a relative opening of the domestic media (Lawson 2002). Between 1991 and 1993, in addition to pursuing NAFTA as his administration's top priority, Salinas' cuts to government spending included cutting the *quid pro quo*'s which underwrote the traditional regime of media control. He specifically ended the system of paying for reporters accommodations on presidential trips, prohibited the distribution of bribes within the presidential palace, reduced the government advertising in which typically functioned as bribes for keeping media in line, ended tax deferments and credits to media, and stopped allowing media outlets to pay their Social Security taxes in advertisements. Privatization of state-owned enterprises also had the effect of reducing the media's dependence on government advertising revenues. The greater scrutiny from American and Canadian media relaxed the domestic media environment for domestic journalists, as it was easier for domestic journalists to report on topics that the foreign press were already reporting on outside any control from the Mexican government. Additionally, greater access to foreign inputs also freed the Mexican media from an important source of government leverage, in particular its traditional monopoly on the import of newsprint, providing further room for the Mexican media to take risks. As independent media outlets were gaining financial independence through market competition, at the same time the neoliberal state was relinquishing its traditional levers of control, led to a independence of the Mexican media increased significantly (Lawson 2002, pp. 76,89).

The international spotlight from the NAFTA negotiations also forced Salinas to cultivate a more positive image on human rights, for instance, when he established the National Commission for Human Rights (Castro and Dominguez 2001, p. 107). Additionally, because neoliberal economic reforms actually led to an opening of the media which the state could not control, Salinas and after him Ernesto Zedillo moved away from traditional tactics of media repression in favor of more modern techniques of news management and public relations, such as controlling information by only providing access

to friendly reporters. For instance, in a 1990 press conference Salinas explicitly excluded several independent media outlets and only permitted the most reliable pro-government journalists. Later in 1996, the Interior Ministry for the first time created an explicit blacklist of journalists who government officials were supposed to not engage (Lawson 2002, p. 39).

Newspaper circulation is limited in Mexico, whereas television broadcasting dominated by Televisa is the main source of information, so it was dominated by pro-NAFTA, pro-government ideology (Hellman 1993). They also used it for extensive foreign media campaigning. While building support for NAFTA, Salinas used media and PR tools extensively, including efforts to persuade Mexican-Americans and US investors to support NAFTA in the United States (Morris and Passé-Smith 2001). This was the first time the Mexican government used advertising and lobbying in its foreign relations (Chabat 1997). One of the most commented advertisements urged US business to look to Mexico as a place where they can hire workers for a dollar an hour (Center for Public Integrity 1993, p. 105; Chabat 1997, p. 45).

This narrative reveals dynamics which are unexpected and in a crucial sense antithetical to our theory, for they reveal how economic liberalization may induce greater media freedom by increasing competition and growth. Yet, Salinas in particular was convinced that he had to protect the government's image to succeed in his foreign economic policies (Castro and Dominguez 2001, p. 107). Although economic reforms made certain kinds of repression impracticable, under Salinas and then Zedillo the Mexican government engaged in specific acts to exclude the press from reporting on politically sensitive issues. Lawson observes plainly that Salinas was historically Mexico's undisputed master of image management (Lawson 2002, p. 39). Additionally, the editor of Mexico's Monitor, Jos  Gut  rrez-Vivy, affirmed in 1996 that Salinas was the president who was hardest on the media. He was the one who sought the most control over the media (Lawson 2002, p. 39). After NAFTA passes, intimidation and direct violence against journalists at the hands of the state can still be observed, as when the state expropriates the property of critical

editors (Orme Jr. 1997). In fact, despite a de facto opening of the media due to financial independence and the neoliberal withdrawal of the state from private enterprise, federal state-media relations changed little until Zedillo and even his administration engaged in repressive tactics such as arresting the publisher of *El Universal* for tax-related reasons in 1996. Finally, physical assault against journalists increased throughout the period of Mexican media's opening from 1980 to the middle of the 1990s (Lawson 2002, p. 81), which was also a period of dramatic trade opening. Most of the physical assaults were not carried out by the government, but they were largely treated with impunity by the government.

Thus, in the process of trade liberalization, Mexican state officials actively seek greater control over the media as much as they can, despite the effect of increased competition unleashing an increasingly independent media. Both Salinas and Zedillo employed a variety of tactics ranging from traditional repression to modern news management in order to control their image in the media during a period of rapid trade liberalization. Salinas in particular, the earliest and most aggressive proponent of economic liberalization in the late 1980s and early 1990s, tried more than anyone else to control the media.

5 Conclusion

More trade-open countries are more likely to repress the media because, while the distributive conflicts generated by economic liberalization tempt national policymakers to repress the media, international trade is uniquely permissive of this repressive tendency, whereas international capital investment generates countervailing incentives against repression. This article provides a mix of quantitative and qualitative evidence suggesting that a country undergoing trade liberalization in particular is more likely to have a repressive media environment, even after controlling for previously well-established drivers of media freedom such as regime type, income levels, and economic growth. Several statistical models and robustness checks including Bayesian Model Averaging and genetic

matching show that, unique among the components of globalization considered here, trade levels have a robust negative association with media freedom. On the other hand, while there is some limited evidence that FDI has a negative association with media freedom in the long-run and FPI has a positive association with media freedom in the short- and long-run, these findings were found to be highly sensitive to model selection. Finally, qualitative process-tracing on cases from Argentina and Mexico in the early 1990s, selected as relatively hard cases of consolidating democracies which for that reason strongly predict media freedom, each provide some illustration of the mechanism relating trade openness to media repression. The regimes of Carlos Menem in Argentina and Carlos Salinas in Mexico both saw media freedom decrease at moments illustrative of the theory.

The implications of this article are important for several reasons. First, this article provides the first systematic, large-N statistical inquiry into the relationship between economic globalization and media freedom. In particular, the article places into scholarly view the surprisingly under-reported empirical anomaly that media freedom historically has a weakly negative association with trade openness, despite having a positive association with general indices of economic globalization and despite the conventional wisdom that economic openness is generally associated with domestic political openness. The robust documentation of this stylized fact poses a unique puzzle which will be of interest to scholars of the globalization-democracy nexus and IPE/CPE more generally because it represents a striking exception to the widespread expectation that economic openness will typically be associated with domestic political openness. Second, the theoretical rationale presented to account for this stylized fact contributes a novel theoretical insight to current research on the globalization-democracy nexus and on the mechanisms of anocratic government because it highlights a specific causal pathway whereby an international economic variable can generate unique pressures toward repressive state behavior, even within relatively democratic countries. Finally, researchers of state-media relations (as well as activists and policy-makers interested in promoting media freedom) will be interested in the findings presented here because they highlight a new causal path, hardly

if at all understood in current political media research, affecting the probability a state will liberalize or repress the media.

6 Supplementary Information

Table 2: Summary Statistics

Statistic	N	Mean	St. Dev.	Min	Max
fp	7,849	0.450	0.500	0	1
year	7,858	1,987.000	15.000	1,960	2,011
lpolity2	7,273	0.470	7.500	−10	10
dpolity2	7,261	0.079	1.700	−18	16
lrgdpch	7,330	9,655.000	20,327.000	400.000	632,240.000
drgdpch2	7,324	0.015	0.097	−1.500	1.100
lopenk	7,346	70.000	46.000	0.310	444.000
dopenk2	7,327	0.012	0.150	−1.200	2.700
lfdiinward	5,789	20.000	45.000	0.000	1,165.000
dfdiinward2	5,788	0.069	0.240	−2.100	2.200
lfpistock2	3,009	2.000	1.500	0.000	8.700
dfpistock	2,922	1.600	52.000	−1,678.000	1,707.000
oil	7,732	0.150	0.350	0	1
internet	7,271	0.730	1.300	0.000	4.600
ethfrac	7,213	0.400	0.280	0.001	0.930
relfrac	7,213	0.380	0.220	0.000	0.780
warl	7,393	0.150	0.350	0	1
onset	7,393	0.014	0.120	0	1

Table 3: List of countries included in the statistical analyses

ALBANIA	ALGERIA	ANGOLA
ARGENTINA	ARMENIA	AUSTRALIA
AUSTRIA	AZERBAIJAN	BAHRAIN
BANGLADESH	BELARUS	BELGIUM
BENIN	BOLIVIA	BOTSWANA
BRAZIL	BULGARIA	BURKINA FASO
BURUNDI	CANADA	CENTRAL AFRICAN REPUBLIC
CHILE	CHINA	COLOMBIA
CONGO	COSTA RICA	COTE D'IVOIRE
CROATIA	CYPRUS	CZECH REPUBLIC
CZECHOSLOVAKIA	DENMARK	DOMINICAN REPUBLIC
ECUADOR	EGYPT	EL SALVADOR
ERITREA	ESTONIA	ETHIOPIA
FIJI	FINLAND	FRANCE
GAMBIA	GEORGIA	GERMANY
GHANA	GREECE	GUATEMALA
GUINEA	GUINEA-BISSAU	GUYANA
HONDURAS	HUNGARY	INDIA
INDONESIA	IRAN	IRAQ
IRELAND	ISRAEL	ITALY
JAMAICA	JAPAN	JORDAN
KAZAKHSTAN	KENYA	KOREA
KUWAIT	KYRGYZSTAN	LATVIA
LIBYAN ARAB JAMAHIRIYA	LITHUANIA	MACEDONIA
MALAWI	MALAYSIA	MALI
MAURITANIA	MAURITIUS	MEXICO
MOLDOVA	MONGOLIA	MOROCCO
MOZAMBIQUE	NAMIBIA	NEPAL
NETHERLANDS	NEW ZEALAND	NICARAGUA
NIGER	NIGERIA	NORWAY
PAKISTAN	PANAMA	PARAGUAY
PERU	PHILIPPINES	POLAND
PORTUGAL	ROMANIA	RUSSIAN FEDERATION
RWANDA	SAUDI ARABIA	SENEGAL
SIERRA LEONE	SINGAPORE	SLOVAKIA
SLOVENIA	SOMALIA	SOUTH AFRICA
SPAIN	SRI LANKA	SUDAN
SWAZILAND	SWEDEN	SWITZERLAND
TANZANIA	THAILAND	TOGO
TUNISIA	TURKEY	UGANDA
UKRAINE	UNITED KINGDOM	UNITED STATES
URUGUAY	VENEZUELA	VIETNAM
YUGOSLAVIA	ZAMBIA	ALBANIA

	Model 1
Intercept	-0.08 (0.81)
Democracy _{t-1}	4.97*** (0.16)
ΔDemocracy	0.61*** (0.08)
GDP per capita _{t-1}	0.13 (0.17)
ΔGDP per capita	0.08 (0.13)
Spline 1	-0.08 (0.47)
Spline 2	-0.88 (1.69)
Spline 3	-0.47 (0.39)
Trade _{t-1}	-0.98*** (0.15)
ΔTrade	-0.20 (0.17)
FDI _{t-1}	0.27 (0.14)
ΔFDI	0.15 (0.11)
Oil _{t-1}	-0.15 (0.16)
Internet _{t-1}	0.93*** (0.23)
Ethnic Frac. _{t-1}	0.48*** (0.12)
Religious Frac. _{t-1}	0.31** (0.11)
Civil War Onset	-1.69*** (0.42)
Civil War Ongoing	-0.95*** (0.13)
AIC	2886.33
BIC	3002.30
Log Likelihood	-1425.17
Deviance	2850.33
Num. obs.	4642

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

Table 4: Model 6 of Table 1 with trade outliers removed

	Model 1	Model 2	Model 3
(Intercept)	2.37*** (0.05)	0.34** (0.12)	0.16** (0.06)
lfp	0.09*** (0.01)	0.03* (0.01)	-0.00 (0.01)
lpolity2		0.01*** (0.00)	0.00 (0.00)
dpolity2		0.00* (0.00)	-0.00 (0.00)
lrgdpch2		0.21*** (0.01)	0.02** (0.01)
drgdpch2		0.22*** (0.04)	0.01 (0.02)
lopenk2			0.88*** (0.01)
R ²	0.81	0.82	0.96
Adj. R ²	0.80	0.81	0.96
Num. obs.	6804	6804	6804
RMSE	0.29	0.28	0.14

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$. Country and year dummies are included in each model but not displayed.

Table 5: Standardized OLS Regressions: Trade Openness

Figure 6: BMA: Most likely models (FPI removed)

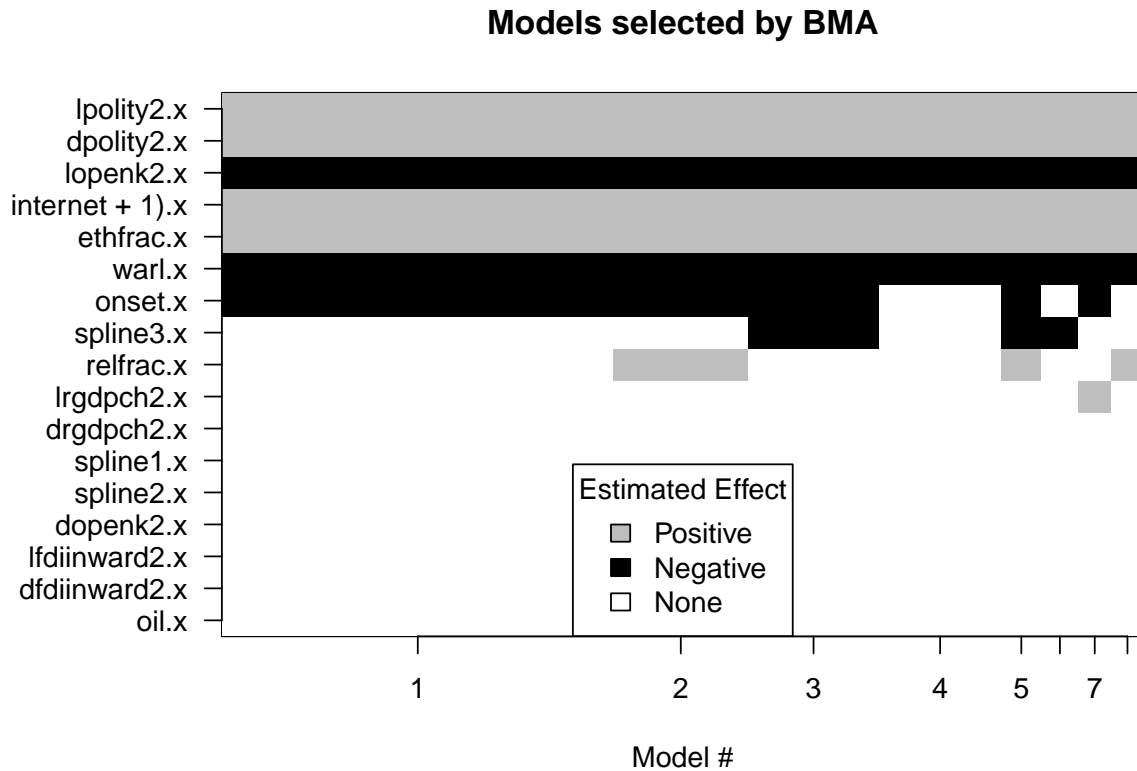
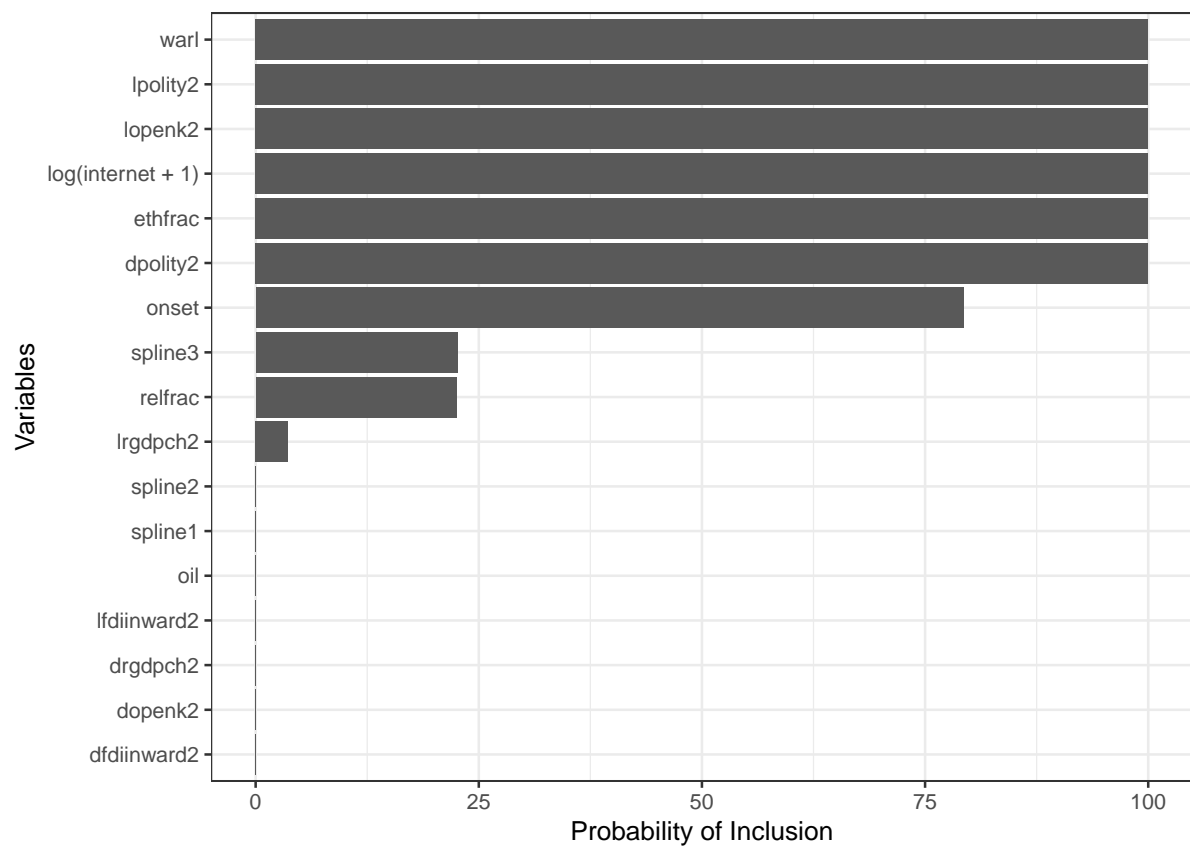


Figure 7: BMA: Probabilities of inclusion (FPI removed)



References

- Adserà, Alicia and Carles Boix. 2002. "Trade, Democracy, Public Sector: The Political Underpinnings of Openness". *International Organization* 56 (2): pp. 229–262.
- Antonis, Adam and Filippaios Fragkiskos. 2007. "Foreign direct investment and civil liberties: A new perspective". *European Journal of Political Economy* 23 (4): pp. 1038–1052.
- Baghwati, Jagdish. 1997. "Globalization, Sovereignty, and Democracy". In: *Democracy's Victory and Crisis*. Ed. by Axel Hadenius. Cambridge: Cambridge University Press.
- Beck, Nathaniel, Jonathan N Katz, and Richard Tucker. 1998. "Taking Time Seriously: Time-Series-Cross-Section Analysis with a Binary Dependent Variable". *American Journal of Political Science* 42 (4): pp. 1260–1288.
- Beker, Victor A. 2011. "A Case Study on Trade Liberalization: Argentina in the 1990s". *Economics* (2012-3). URL: <http://www.economics-ejournal.org/economics/discussionpapers/2012-3>. Kiel Institute for the World Economy.
- Bennett, Andrew and Alexander L George. 2005. *Case Studies and Theory Development in the Social Sciences*. Cambridge: MIT Press.
- Borner, Silvio and Markus Kobler. 2002. "Strength and Commitment of the State: It Takes Two to Tango – A Case Study of Economic Reforms in Argentina in the 1990s". *Public Choice* 110 (3/4): pp. 327–350.
- Burgoon, Brian. 2001. "Globalization and Welfare Compensation: Disentangling the Ties that Bind". *International Organization* 55 (3): pp. 509–551.
- Bussmann, Margit and Gerald Schneider. 2007. "When globalization discontent turns violent: foreign economic liberalization and internal war". *International Studies Quarterly* 51 (1): pp. 79–97.
- Cameron, David R. 1978. "The Expansion of the Public Economy: A Comparative Analysis". *American Political Science Review* 72 (04): pp. 1243–1261.
- Cammack, Paul. 1998. "Globalization and the death of liberal democracy". *European Review* 6 (02): pp. 249–263.
- Castro, Rafael Fernández de and Jorge I Dominguez. 2001. *The United States and Mexico: Between Partnership and Conflict*. Abingdon: Psychology Press.
- Cavallo, Domingo F. 2004a. "Argentina and the IMF During the Two Bush Administrations". *International Finance* 7 (1): pp. 137–150.
- Cavallo, Domingo F. 2004b. "Clase N° 6. Argentina hasta la crisis brasileña". Unpublished manuscript. Cambridge. URL: <http://www.cavallo.com.ar/wp-content/uploads/C6.pdf>.
- Center for Public Integrity. 1993. *The Trading Game: Inside Lobbying for the North American Free Trade Agreement*. Washington, D.C.: Center for Public Integrity.
- Chabat, Jorge. 1997. "Mexico's Foreign Policy After NAFTA: The Tools of Interdependence". In: *Bridging the Border: Transforming Mexico-U.S. Relations*. Ed. by Rodolfo O De la Garza and Jesús Velasco. Lanham, MD: Rowman & Littlefield.
- Corrales, Javier and Frank Westhoff. 2006. "Information Technology Adoption and Political Regimes". *International Studies Quarterly* 50 (4): pp. 911–933.
- Coyne, Christopher J and Peter T Leeson. 2004. "Read All About It! Understanding the Role of Media in Economic Development". *Kyklos* 57 (1): pp. 21–44.

- Delgado, A. 1995. *Agresiones a La Prensa 1991-1994*. Buenos Aires: Asociacion Madres de Plaza de Mayo.
- Diamond, Alexis and Jasjeet S Sekhon. 2012. “Genetic Matching for Estimating Causal Effects: A General Multivariate Matching Method for Achieving Balance in Observational Studies”. *Review of Economics and Statistics* 95 (3): pp. 932–945.
- Dreher, Axel, Noel Gaston, and Pim Martens. 2008. *The Measurement of Globalisation*. New York: Springer.
- Echegaray, Fabian and Carlos Elordi. 2001. “Public Opinion, Presidential Popularity, and Economic Reform in Argentina, 1989-1996”. In: *Public Support for Market Reforms in New Democracies*. Cambridge University Press.
- Eckstein, Susan and Manuel Antonio Garretón Merino. 2001. *Power and Popular Protest: Latin American Social Movements*. Berkeley: University of California Press.
- Egorov, Georgy, Sergei Gurieva, and Konstantin Sonin. 2009. “Why Resource-Poor Dictators Allow Freer Media: A Theory and Evidence from Panel Data”. *American Political Science Review* 103 (04): p. 645.
- Eichengreen, Barry and David Leblang. 2008. “Democracy and Globalization”. *Economics & Politics* 20 (3): pp. 289–334.
- Fearon, James D and David D Laitin. 2003. “Ethnicity, Insurgency, and Civil War”. *American Political Science Review* 97 (01): p. 75.
- Ferber, Federico. 1993. “ARGENTINA: FARMERS TO DEMAND CONCESSIONS IN PROTEST RALLY”. *IPS-Inter Press Service*.
- Freedom House. 2011. *Freedom of the World*. URL: <https://freedomhouse.org/>.
- Galiani, Sebastian and Pablo Sanguinetti. 2003. “The impact of trade liberalization on wage inequality: evidence from Argentina”. *Journal of Development Economics* 72 (2): pp. 497–513.
- Gehlbach, Scott and Konstantin Sonin. 2014. “Government control of the media”. *Journal of Public Economics* 118: pp. 163–171.
- Gelman, Andrew. 2008. “Scaling regression inputs by dividing by two standard deviations”. *Statistics in Medicine* 27 (15): pp. 2865–2873.
- Habermas, Jürgen. 1991. *The Structural Transformation of the Public Sphere: An Inquiry Into a Category of Bourgeois Society*. Cambridge: MIT Press.
- Hayden, Tom. 2009. *The Zapatista Reader*. New York: Nation Books.
- Hellman, Judith Adler. 1993. “Mexican Perceptions of Free Trade: Support and Opposition to NAFTA”. In: *The Political Economy of North American Free Trade*. Ed. by Ricardo Grinspun and Maxwell A Cameron. New York: Unpublished manuscript: pp. 193–206.
- Heston, Alan and Robert Summers. *Penn World Table Versions 7.1*. URL: https://pwt.sas.upenn.edu/php_site/pwt_index.php.
- Hiscox, Michael J. 2002a. “Commerce, Coalitions, and Factor Mobility: Evidence from Congressional Votes on Trade Legislation”. *American Political Science Review* 96 (3).
- Hiscox, Michael J. 2002b. *International Trade and Political Conflict: Commerce, Coalitions, and Mobility*. Princeton: Princeton University Press.
- Hlavac, Marek. *stargazer: LaTeX code and ASCII text for well-formatted regression and summary statistics tables*. <http://cran.r-project.org/web/packages/stargazer>. Version 4.5.3. R package.

- Hufbauer, Gary Clyde and Jeffrey J Schott. 2005. *NAFTA Revisited: Achievements and Challenges*. Washington: Institute for International Economics.
- Huntington, Samuel P and Jorge I Dominguez. 1975. "Political Development". In: *Handbook of Political Science, Volume 3: Macropolitical Theory*. Ed. by Fred I Greenstein and Nelson W Polsby. Reading, Mass.
- Im, Hyug Baeg. 1996. "Globalisation and Democratisation: Boon Companions or Strange Bedfellows?" *Australian Journal of International Affairs* 50 (3): pp. 279–291.
- Imai, Kosuke, Gary King, and Olivia Lau. 2009. *Zelig: Everyone's Statistical Software*. <http://gking.harvard.edu/zelig>. R package.
- Islam, Roumeen, ed. 2002. *The Right to Tell: The Role of Mass Media in Economic Development*. Washington, D.C.: World Bank Publications.
- Islam, Roumeen. 2003. "Do More Transparent Governments Govern Better?" *World Bank Policy Research Working Paper No. 3077*. URL: <http://ssrn.com/abstract=636439>.
- Islam, Roumeen, ed. 2008. *Information and Public Choice: From Media Markets to Policy Making*. Washington DC: World Bank.
- Kant, Immanuel. 1983. *Perpetual Peace, and Other Essays on Politics, History, and Morals*. Ed. by Ted Humphrey. Indianapolis: Hackett.
- Keele, Luke J. 2014. *rbounds: Perform Rosenbaum bounds sensitivity tests for matched and unmatched data*. Version 2.0. URL: <http://CRAN.R-project.org/package=rbounds>. R package.
- Klein, Naomi. 2002. "Revolt of the wronged". *The Guardian*. URL: <http://www.theguardian.com/world/2002/mar/28/argentina.comment>.
- Lawson, Chappell H. 2002. *Building the Fourth Estate: Democratization and the Rise of a Free Press in Mexico*. Berkeley: University of California Press.
- Levitsky, Steven and Lucan Way. 2002. "The Rise of Competitive Authoritarianism". *Journal of Democracy* 13 (2): pp. 51–65.
- Levitsky, Steven and Lucan A Way. 2006. "Linkage versus Leverage. Rethinking the International Dimension of Regime Change". *Comparative Politics* 38 (4): p. 379.
- Lewis, Orion. 2014. "Globalization, Domestic Stability, and Freedom of the Press". *figshare*. URL: <http://dx.doi.org/10.6084/m9.figshare.1194870>.
- Li, Quan and Rafael Reuveny. 2003. "Economic Globalization and Democracy: An Empirical Analysis". *British Journal of Political Science* 33 (1): pp. 29–54.
- Limongi, Fernando, Jose Antonio Cheibub, Michael M Alvarez, and Adam Przeworski. 1996. "What Makes Democracies Endure?" *Journal of Democracy* 7 (1): pp. 39–55.
- Lindblom, Charles E. 1977. *Politics and Markets : The World's Political-Economic Systems*. New York: Basic Books.
- Long, William R. 1993. "MEDIA: Threats, Assaults Complicate Argentine Journalists' Jobs". *Los Angeles Times*.
- MacKinnon, Rebecca. 2011. "China's "Networked Authoritarianism"". *Journal of Democracy* 22 (2): pp. 32–46.
- Marcus-Delgado, Jane. 2003. "Trust, Corruption, and the Globalization Tango". *Social Text* 21 (4): pp. 139–153.
- Marshall, Monty G, Keith Jagers, and Ted Robert Gurr. 2011. "Polity IV Project: Political Regime Characteristics and Transitions, 1800-2010". *Center for Systemic Piece*.

- McCullough, Ed. 1991. "Hard Times on Argentina's Fertile Pampas". *The Associated Press*. URL: <http://www.apnewsarchive.com/1991/Hard-Times-on-Argentina-s-Fertile-Pampas/id-f451c812baef26cd6502d6e621615868>.
- McDaniel, Christine A and Laurie-Ann Agama. 2003. "The NAFTA Preference and US-Mexico Trade: Aggregate-Level Analysis". *The World Economy* 26 (7): pp. 939–955.
- "Menem's Miracle". 1992. *Time International*.
- Milner, Helen V and Keiko Kubota. 2005. "Why the Move to Free Trade? Democracy and Trade Policy in the Developing Countries". *International Organization* 59 (01): pp. 107–143.
- Milner, Helen V and Bumba Mukherjee. 2009. "Democratization and Economic Globalization". *Annual Review of Political Science* 12: pp. 163–181.
- Montgomery, Jacob M and Brendan Nyhan. 2010. "Bayesian Model Averaging: Theoretical Developments and Practical Applications". *Political Analysis* 18 (2): pp. 245–270.
- Moore, Geoff. 2004. "The Fair Trade Movement: Parameters, Issues and Future Research". *Journal of Business Ethics* 53 (1-2): pp. 73–86.
- Morris, Stephen D and John Passé-Smith. 2001. "What a Difference a Crisis Makes: NAFTA, Mexico, and the United States". *Latin American Perspectives* 28 (3): pp. 124–149.
- Oneal, John R and Bruce Russett. 1999. "Assessing the Liberal Peace with Alternative Specifications: Trade Still Reduces Conflict". *Journal of Peace Research* 36 (4): pp. 423–442.
- Orme Jr., William A. 1997. "A Culture of Collusion: An inside Look at the Mexican Press". *Foreign Affairs* 76 (4): pp. 157–158.
- Park, David J. 2002. "Media, Democracy, and Human Rights in Argentina". *Journal of Communication Inquiry* 26 (3): pp. 237–260.
- Pearce, Katy E and Sarah Kendzior. 2012. "Networked Authoritarianism and Social Media in Azerbaijan". *Journal of Communication* 62 (2): pp. 283–298.
- Petrova, Maria. 2011. "Newspapers and Parties: How Advertising Revenues Created an Independent Press". *American Political Science Review* 105 (04): pp. 790–808.
- Raftery, Adrian E, Jennifer Hoeting, Chris Volinsky, Ian Painter, and Ka Yee Yeung. *BMA: Bayesian Model Averaging*. <http://CRAN.R-project.org/package=BMA>. Version 3.18.1. R package.
- Reuveny, Rafael and Katherine Barbieri. 2005. "Economic Globalization and Civil War". *The Journal of Politics* 67 (4): pp. 1228–1247.
- Rodriguez, F and Dani Rodrik. 2001. "Trade Policy and Economic Growth: A Skeptic's Guide to the Cross-National Evidence". In: *NBER Macroeconomics Annual 2000*. Cambridge.
- Rodrik, Dani. 1998. "Why Do More Open Economies Have Bigger Governments?" *Journal of Political Economy* 106 (5): pp. 997–1032.
- Rogowski, Ronald. 1987. "Political Cleavages and Changing Exposure to Trade". *The American Political Science Review* 81 (4): pp. 1121–1137.
- Rogowski, Ronald. 1989. *Commerce and Coalitions: How Trade Affects Domestic Political Alignments*. Princeton: Princeton University Press.
- Rosenbaum, Paul R. 1988. "Sensitivity Analysis for Matching with Multiple Controls". *Biometrika* 75 (3): pp. 577–581.

- Sekhon, Jasjeet S. 2011. "Multivariate and Propensity Score Matching Software with Automated Balance Optimization: The Matching Package for R". *Journal of Statistical Software* 42 (7). URL: <http://papers.ssrn.com/abstract=1009044>.
- Silverstein, Ken. 2002. "Stop the Press:" *The American Prospect*. URL: <http://prospect.org/article/stop-press>.
- Sims, Calvin. 1995. "Press Protests 'Gag' Bills In Argentina". *The New York Times*. URL: <http://www.nytimes.com/1995/02/19/world/press-protests-gag-bills-in-argentina.html>.
- Sorens, Jason and William Ruger. 2012. "Does Foreign Investment Really Reduce Repression?" *International Studies Quarterly* 56 (2): pp. 427–436.
- Sorens, Jason and William Ruger. 2015. "Globalization and Intrastate Conflict: An Empirical Analysis". *Civil Wars*. Forthcoming.
- Tommasi, Mariano and Andres Velasco. 1995. "Where Are We in the Political Economy of Reform?" *C.V. Starr Center for Applied Economics*. URL: <http://ideas.repec.org/p/cvs/starer/95-20.html>.
- Van Belle, Douglas A. 1997. "Press Freedom and the Democratic Peace". *Journal of Peace Research* 34 (4): pp. 405–414.
- Van Belle, Douglas A. 2000. *Press Freedom and Global Politics*. Westport, CT: Praeger.
- Villareal, Angeles M. 2010. "NAFTA and the Mexican Economy". *Congressional Research Service*. URL: <http://www.fas.org/sgp/crs/row/RL34733.pdf>.
- Waisbord, Silvio R. 1994. "Knocking on Newsroom Doors: The Press and Political Scandals in Argentina." *Political Communication* 11 (1): pp. 19–33.
- Williams, Heather L. 2001. *Social Movements and Economic Transition: Markets and Distributive Conflict in Mexico*. Cambridge: Cambridge University Press.