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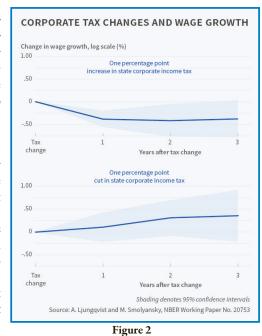
contiguous counties straddling state trol counties if affected households spend borders. The idea is to exploit a spatial less money not just at home but also in policy discontinuity when forming con- neighboring counties. This would attentrol groups. Because a state's tax juris- uate the estimated tax sensitivity, as the diction stops at its border, a county's tax increase would hurt both the treated

immediate neighbors on the other side of the border share plausibly similar economic conditions while being subject to discretely different tax policies.

Our empirical results show that corporate tax changes affect employfirm ment and wages [See Figure 2], and that they do so asymmetrically: While tax increases hurt employment and income in

effect. All else equal, a one-percenttaxes reduces employment by between 0.3 percent and 0.5 percent and wages by between 0.3 percent and 0.6 percent, net of contemporaneous changes in neighboring counties on the other side of the state border. Tax cuts, on the other hand, have no significant effect on either employment or wages unless they are implemented during a recession, when they lead to sizeable increases in both these changes are generally small, meaemployment and wages.

tiguous-border-county strategy is that could trigger changes in the behavior of firms or households across the border. For example, the fall in wages following a tax increase could spill over to con- open question.



ties. Instead, we treated counties, tax cuts have little find no difference in employment or wage growth within untreated states, regardage-point increase in corporate income less of proximity to the border, suggesting that spillovers do not play a major role in our setting.

and the control

county. To deal

with such poten-

tial spillovers, we

compare border

counties to hin-

ties located fur-

ther inside the

untreated states.

To the extent that

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Conclusions

The examples presented above suggest that state-level variations in taxes are useful for exploring a number of tax-related research questions. While suring perhaps a percentage point, they One potential challenge to our con- apparently are economically meaningful in light of the responses they elicit tax changes on one side of the border from firms, in terms of their use of debt, their risk-taking, and their employment decisions. Whether these responses are too large, too small, or just right is an

An interesting theme that emerges from these three examples is that taxes often have an asymmetric effect. In the case of capital structure, asymmetry is a prediction of one prominent class of models but not of others, which can help us to discriminate empirically between different capital structure theories. In the case of risk-taking, asymmetry is to be expected — if not predicted - given the insights of the literature on risk shifting and asset substitution at highly leveraged firms. In the case of firms' employment decisions, asymmetry is more of a surprise.

There remains much interesting spillovers dissiwork to be done on the various ways in pate with distance which corporate taxes affect economic activity. State taxes, modest though from the state they may often seem, are a useful addiborder, we would expect employtion to our empirical toolbox.

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² A. Ljungqvist and M. Smolyansky, "To Cut or Not to Cut? On the Impact of Corporate Taxes on Employment and Income," NBER Working Paper No. 20753, December 2014.

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³ F. Modigliani and M. H. Miller, "Corporate Income Taxes and the Cost of Capital: A Correction," The American Economic Review, 53(3), 1963, pp. 433-43.

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⁴ A. Ljungqvist, L. Zhang, and L. Zuo, "Sharing Risk with the Government: How Taxes Affect Corporate Risk-Taking," NBER Working Paper No. 21834, December 2015. Return to text.

The Design of Trade Agreements

Kyle Bagwell and Robert W. Staiger

tilateral forum-first the General Organization (WTO)-where governments meet to agree on the rules of international trade. To interpret and evaluate the role of these organizations agreements to make adjustments to requires a two-step research program. their own local-market prices; they The first step is to identify the central problems that a trade agreement might address. The second is then to bring ernment of a country wishes to adjust economic arguments to bear on the the local-market price of an import design of an agreement that would best resolve these issues. Here we review some of our joint efforts to contribute to ongoing research in this area.

The Purpose of Trade Agreements

Economists have identified two broad and possibly complementary rationales for trade agreements: to help governments internalize the international externalities associated with their policy choices, and to help governments solve a commitment problem with respect to the private sector.¹ former reason, specifically on this question: What form do the international externalities associated with trade policv take?

We have established previously plays a central role.² If governments ally beneficial policy outcomes when viewed through the lens of their own agreement there must be a policy ineffi- though not necessarily free, trade. ciency in terms of those objectives that

Since 1947 there has been a mul- the terms-of-trade externality — and the associated incentive for interna-Agreement on Tariffs and Trade tional cost-shifting it creates for gov-(GATT), now the World Trade ernments with sufficient monopsony power — that lies at the heart of a trade agreement's reason to exist.

Governments do not need trade have their own trade-policy instruments to accomplish this. If the govgood to alter the level of protection it provides to its import-competing producers, it can accomplish this much with a unilateral change in its tariff. But trade agreements can help member governments make such adjustments without altering their terms of trade, and for governments with monopsony power in international markets trade agreements therefore expand the set of possibilities beyond what these governments could achieve on their own. At least some of these new possibilities can create mutual gains for the member governments, though this is so only for the possibilities that entail Our recent work has focused on the negotiated tariff reductions. According to this view, the purpose of trade agreements is to eliminate policy inefficiencies that exist when governments are free to exert monopsony power on international markets, depress foreignthat the terms-of-trade externality exporter prices with their unilateral decisions to protect domestic markets, use trade agreements to achieve mutu- and thereby shift some of the costs of this protection onto foreign exporters. By eliminating these inefficiencies, objectives, then in the absence of an trade agreements will lead to freer,

Our early work on these issues the agreement can correct. Whether focused on perfectly competitive margovernment objectives reflect the max- ket settings. In recent work, we show imization of national income or the that the central role played by the pursuit of national distributional or terms-of-trade externality in identifypolitical goals, we found that it is ing the purpose of a trade agreement



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In his research, Bagwell examines a range of theoretical and empirical questions relating to the purpose and design of the GATT and WTO. He also explores theories of competition and cooperation in settings where asymmetric information is present. His research has been published in numerous academic journals, and in a book, The Economics of the World Trading System, coauthored with Robert W. Staiger and published by The MIT Press.

Bagwell received undergraduate degrees in economics and mathematics from Southern Methodist University in 1983 and a Ph.D. in economics from Stanford in 1986. Prior to joining Stanford's faculty at the start of 2009, he was a faculty member at Northwestern University and at Columbia University, where he was the Kelvin J. Lancaster Professor of Economic Theory.

Bagwell has served on the editorial boards of several academic journals. He was a national fellow of the Hoover Institution in 1991–92 and a fellow at Stanford's Center for Advanced Study in the Behavioral Sciences 2014-15. He was director of the Stanford Institute for Theoretical Economics 2010–13, and a reporter for the American Law Institute in its study Principles of Trade Law: The World Trade Organization. He is also a fellow of the Econometric Society.

extends to a wide variety of market settings. These settings include free-entry monopolistic competition and free-entry Cournot oligopoly, where firm-delocation/home-market effects create an incentive for trade policy intervention.³ They also include oligopolistic settings where the number of firms is fixed and profitshifting incentives for intervention exist.⁴

Each of these imperfectly competitive settings introduces a rich new set of local-price externalities that complement the traditional terms-of-trade externality. We show, however, that if all governments could be induced to make policy choices that were free from terms-of-trade

international cost-shifting made possible by monopsony power, then these policy choices would bring governments to the efficiency frontier defined in light of their objectives, and there would be nothing further for a trade agreement to do. The key point is that local-price externalities are "shut down" at the local prices implied by each government's policy choices if each government suppresses international costshifting motives when making those choices. In this sense, eliminating the cost-shifting behavior associated with the terms-oftrade externality remains the sole

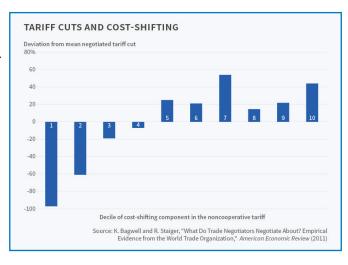
rationale for a trade agreement in these imperfectly competitive settings, just as in the perfectly competitive benchmark. From this perspective, the "terms-of-trade theory" of trade agreements can be under- estimate the component of the noncoopstood to encompass a remarkably wide erative tariff that embodies the internaclass of models.

In all of these settings, an important condition for our results is that governments have a complete set of trade policy instruments, though not necessarily domestic policy instruments. If this condition were not met, then local-price externalities would persist even if each government were to suppress international cost-shifting motives when select- the pattern of negotiated tariff cuts that is ing the level of intervention with the implied by the terms-of-trade theory. If all policies it does possess, and an additional purpose for trade agreements, beyond income, their tariffs would reflect only lars of reciprocity and nondiscrimination

suppressing the exercise of monopsony power, would arise: solving the missing instruments problem.⁵

What Do Trade Negotiators Negotiate About?

Do governments use trade agreements to eliminate the policy inefficiencies that exist when they are free to exert their monopsony power on international markets? We provide an answer to this question by examining the negotiated tariff cuts of 16 countries that joined the WTO in the decade following its inception, under the assumption that these motives, and hence not motivated by the countries agreed to reduce their tariffs



from noncooperative (unconstrained) levels to efficient levels as the "price of admission" to the WTO.6

We use the terms-of-trade theory to tional cost-shifting motive. [See Figure] In our most general version of the model, this estimate is a function of pre-negotiation import volumes, prices, and trade elasticities that gauge a country's power to affect world prices. In a linear version of the model, the estimate is a function of just pre-negotiation import volumes and prices. We use these estimates to derive governments sought to maximize national

the international cost-shifting component and negotiations would eliminate all tariffs. But if governments pursue national distributional or political goals, their noncooperative tariffs reflect these goals combined with the international cost-shifting component. Estimating this cost-shifting component is then the key step to predicting the negotiated tariff cuts implied by the terms-of-trade theory; if the costshifting component is large, then so too should be the negotiated tariff cut.

For a subset of five of our set of 16 WTO-acceding countries for which we have data to calculate our most general measure of the cost-shifting component, the accompanying figure plots the per-

cent deviation from mean negotiated six-digit Harmonized System product tariff cut by decile of this cost-shifting component. There is a strong positive relationship between the size of the cost-shifting component in the noncooperative tariff and the size of the negotiated tariff cut, as the theory predicts. A similar plot arises for all 16 countries when we use instead the measure of the costshifting component from our linear model and can exploit the wider data availability to construct this measure. And when we turn to regression analysis, we find that these basic patterns in

the data survive a number of controls and robustness checks. Subsequent work has confirmed and extended empirical support for the terms-of-trade theory of trade agreements to a wider set of countries and to additional implications of the theory.⁷

The Design of Trade Agreements

Why does the purpose served by trade agreements matter? It matters for the design of trade agreements. Many of the core design features of the GATT can be understood as features that support governments' efforts to neutralize the terms-of-trade consequences of their policy choices.

We show that the GATT's design pil-

can be understood from this perspective.⁸ Reciprocity, defined as tariff changes that lead to equal changes in the values of a country's export and import volumes, neutralizes the terms-of-trade consequences of bilateral tariff negotiations, creating an environment conducive to tariff bargaining stripped of terms-of-trade motives. Nondiscrimination is implemented through the most-favored-nation (MFN) principle, which prevents countries from applying different tariff rates to the imports of a given product based on its country of origin. Whatever treatment is offered to the "most favored" nation must thus be offered to all nations. The MFN principle ensures that the terms-of-trade externality continues to be the key international externality associated with tariff intervention in a multi-country world. Taken together, reciprocity and MFN treatment can help to neutralize thirdparty externalities of tariff negotiations by preventing the terms-of-trade movements through which third-party externalities would travel. Viewed in this light, the GATT's design pillars can be interpreted as facilitating efficiency-enhancing outcomes through decentralized bilateral

In joint work with Ali Yurukoglu, we examine the implications of reciprocity and MFN treatment in the GATT multilateral tariff bargaining records from the Torquay Round (1950–51).⁹ In the Torquay Round, governments adopted a bargaining protocol under which they engaged in simultaneous bilateral requestoffer tariff negotiations with multiple bargaining partners, and where the agreements reached in each bilateral were multilateralized to the entire GATT membership through the MFN principle. We argue that adherence to reciprocity and MFN treatment could have had the effect of dramatically simplifying these bilateral simultaneous tariff bargains, converting them from operating like an open bazaar for the exchange of market access commitments, where governments might haggle over the terms (price) of the exchange, into operating in essence like a retail store for market access where the price of market access is fixed at a recipro-

tariff bargaining.

cal exchange of one for one.

Specifically, we show that if adherence to reciprocity and MFN treatment is strict in the sense that all bargaining proposals must satisfy these principles, then each country has a dominant strategy to immediately propose the tariffs that would deliver its desired level of market access at the existing terms of trade. And we show that multilateral rather than bilateral reciprocity is all that is required for this result. This second point is significant, because the innovation of the GATT's multilateral negotiating rounds — where many countries were negotiating bilaterally but simultaneously in the same "room" - made it possible for the first time for countries to value the indirect market-access benefits they could expect from other successful bilaterals under the MFN principle, thereby relaxing the reciprocity constraint so that negotiators could achieve multilateral rather than bilateral reciprocity.

Focusing on the U.S. bilaterals with each of its 24 bargaining partners in the Torquay Round, we find evidence that supports our analysis. The U.S. and each of its bargaining partners made initial tariff-level offers that did not change through the seven-month course of the negotiations, consistent with the stance that governments abstained from strategic considerations when configuring their opening tariff-level offers. What changed through the course of the round within each bilateral was the sets of offered products on the table, as each government sought to secure the maximum exchange of market-access commitments across partners consistent with reciprocity and its individual desires. When in the middle of the round the U.S.-U.K. bilateral broke down, the subsequent response of the remaining U.S. bargaining partners was to pull back on their market-access offers to the U.S. while the U.S. was simultaneously re-issuing offers to them that it had initially made to the U.K., suggesting that before the breakdown the other U.S. bargaining partners had been counting on indirect trade benefits from the U.S.-U.K. bilateral in their efforts to secure multilateral reciprocity, and that a rebalancing of



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Staiger's research focuses on international trade policy rules and institutions, with emphasis on the economics of the GATT and WTO. His research has been published in numerous academic journals, and he currently is editing, with Kyle Bagwell, The Handbook of Commercial Policy, to be published by Elsevier in December 2016.

Staiger received his A.B. from Williams College in 1980 and his Ph.D. from the University of Michigan in 1985. He was an assistant professor of economics at Stanford University from 1985 through 1991, when he was tenured. He joined the economics department at the University of Wisconsin in 1993, returned to Stanford in 2006, rejoined the economics department at Wisconsin in 2011, then joined the economics department at Dartmouth in 2014.

Staiger has been a national fellow of the Hoover Institution, an Alfred P. Sloan Research Fellow, a senior staff economist at the President's Council of Economic Advisers, and a fellow at Stanford's Center for Advanced Study in the Behavioral Sciences. He was a reporter for the American Law Institute's study of Principles of Trade Law: The World Trade Organization (2002-12), and has served on the selection panel for the WTO's Award for Young Economists since 2009. He is also a fellow of the Econometric Society.

offers to maintain multilateral reciprocity ment with exact tariff levels in an alter- has altered the central role of terms-ofknown.

In other recent work, we explore implications of our theoretical analysis for settings with important asymmetries.¹⁰ A market-access bargaining forum built on reciprocity and MFN may work well when the desire for increased market access is relatively balanced across bargaining partners, so that the reciprocal one-for-one price itive terms-of-trade externality for its of exchange is approximately a marketclearing price. But when large asymme- iffs are negotiated but not prohibited tries exist, as when some countries have under GATT/WTO rules, even though already exhausted many of the possibilities for reciprocal exchanges of commitments through earlier bargains, while ative terms-of-trade externality for its other countries are just beginning to trading partner. The treatment of export engage in the process, the reciprocity requirement itself may pose a major hurdle to successful negotiations. We develop this idea as a possible contributing factor to the difficulties faced by the and positive trade costs. For such mod-WTO's Doha "development" round in els, an export subsidy may generate a achieving its goal of better integrating terms-of-trade loss for the trading partemerging and developing countries into ner by inducing exit and driving up the world trading system.

GATT/WTO is that governments negotiate bound tariff levels or tariff caps. When a government applies a tariff that falls strictly below the negotiated tariff cap for a given good, "binding overhang" is said to occur. To study tariff caps and binding overhang, we extend the termsof-trade theory to allow governments to negotiate a trade agreement while uncertain about the preference shocks that they may respectively and privately experience these changes affect the relevance of a in the future. We show that expected joint government welfare in such a setting is how might it evolve in response? This is higher when governments negotiate tariff caps and thus allow for binding overhang than when they negotiate exact tariff levels to be applied under all shocks.¹¹ Subsequent work generalizes the analysis and characterizes settings in which a trade agreement with tariff caps maximizes expected joint government welfare among all incentive-compatible trade enhancing for member governments. agreements.¹² Another line of subsequent work establishes that an agreement with tariff caps is also preferred to an agree-

was required once the breakdown became native extension that features contracting trade externalities in defining the purcosts.13

Not all dimensions of GATT/WTO design find clear support under a termsof-trade interpretation, however. For example, WTO rules prohibit the use of export subsidies on manufactured goods. In a standard terms-of-trade model with competitive industries, a country that offers an export subsidy generates a postrading partner; by contrast, import tarin the standard model a country that imposes an import tariff generates a negsubsidies under WTO rules receives more support in alternative models with imperfect competition and an outside good, free entry, segmented markets, prices.¹⁴ Expanding on this logic, we NBER Working Paper No. 21303, Another core design feature of the study a linear Cournot firm-delocation model and provide a partial interpretation of the treatment of export subsidies in the WTO.¹⁵

Could the Purpose of Trade Agreements Be Changing?

GATT was created in 1947, and we know that the nature of trade is very different now than it was then. How might multilateral forum like the WTO, and a natural question to ask in the two-step research program we describe above. To answer it, we must first ask whether the changing nature of trade has altered the central problems that a trade agreement might address; if the answer is affirmative, then the next step is to inquire into any new design features that may be efficiency-

Viewed through the lens of the terms-of-trade theory, the key question is whether the changing nature of trade

pose of a trade agreement. This is an open and important question. One possible reason that the answer could be "yes" is that the rise of offshoring and global supply chains may be changing the way that international prices and the terms of trade are determined, from traditional market-clearing mechanisms to a web of bilateral bargains over the prices of customized inputs in specialized buyer-supplier relationships that are no longer tightly disciplined by marketclearing considerations. To the extent that this change has occurred, it changes the nature of international policy externalities, extending them beyond termsof-trade channels, and thereby creating new problems for a trade agreement to solve and new features of the trade agreement designed to solve them.¹⁶

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