International Trade, Foreign Direct Investment and Corporate Strategies
(Trade, FDI and Corporate Strategies)

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Over the last ten years the development of International Trade theory is defined by the heterogeneous firms' framework. The seminal work of Melitz (Melitz, 2003) has put a theoretical foundation of this approach while empirical works of Bernard, Jensen, Schott, Pavcnik (Bernard and Jensen, 1999, Bernard, Jensen and Schott, 2003, Pavcnik, 2002) and others demonstrated its empirical relevance. Heterogeneity of firms in their productivity levels along with positive fixed costs of exporting are the two main assumptions that define the results.

One of the important implications of this approach is that redistribution properties of international trade policy have one more dimension – intra-industry one. Namely, trade liberalization in a particular industry leads to reallocation of factors toward more productive firms in the industry. That is, the market share of less productive domestic firms declines in favor of the market share of more productive domestic firms. A direct result of this reallocation is the increase in the productivity of the whole industry. This inference could not be obtained in the representative firm approach. Empirical estimations indicate that intra-industry effects of international trade could be more significant than inter-industry ones.

Trade/FDI and Costs of Accessing Foreign Markets:

So far the issue of fixed costs of exporting is not very well explored. We know little about the composition of these costs, their values and which policy instruments can affect them. Survey of exporting firms in Russia¹ indicates that information costs are among the most severe ones. Then the important question is what type of information is especially important for export transactions to take place. Among other candidates the literature suggests financial, regulatory, labor and other costs. One of the goals of this project is the empirical and theoretical study of the relevance of

¹ Check the questionnaires of Russian exporters

 $(\underline{https://dl.dropboxusercontent.com/u/55024954/Quest\%20exporters.pdf}) \ and \ potential \ exporters \\ (\underline{https://dl.dropboxusercontent.com/u/55024954/Quest\%20potential\%20exporters.pdf}) \ to \ get \ a \ flavor \ of \ available \ data.$

various costs for exporters. Export of Russian firms over 2000-2010 and firm-level data from other countries will be used in empirical studies.

Trade/FDI and Innovation and Organizational Structure:

Additionally, the literature has stipulated how trade liberalization creates incentives to innovate and increase productivity and performance in firms by lowering trade costs and/or expanding export markets (Aw, Roberts, and Xu, 2010, Bustos, 2011, Verhoogen, 2008, among others). Similarly, multinationals are known to give access to larger markets and lower costs, so subsidiaries of multinational companies also innovate more and perform better (Criscuolo and Martin, 2009, Arnold and Javorcik, 2009, Guadalupe, Kuzmina, and Thomas, 2012, among others). One could therefore explore which firms become targets of FDI, what are the sources of multinationals advantage, how internal organization of the firm differs between foreign and domestic firms, how FDI shapes labor contracts within firms. In an empirical project covering one of these topics one could use either Russia or OECD data.

Trade/FDI and Other Corporate Strategies:

It is also important to emphasize that although various fields of economics typically specialize in looking at firms from one particular angle, ultimately most corporate strategies are endogenous to each other under the natural dome of value/profit maximization. This means that firm's relationships with suppliers and employees (in input markets), competitors, clients, and retailers (in output markets), managers, creditors and owners (corporate angle: governance, capital structure and dividend policy), may be all interrelated. From this perspective it could be interesting to study whether firms that export or are parts of multinationals do things differently from others and why (e.g. by diversification of risks or by access to larger markets, etc.), and vice versa – whether any of these corporate strategies affect the choice and the modes of exporting or becoming a part of a multinational.

Some potential topics for master theses are:

1. (Empirical) The analysis of intra-industry production and export structure of Russian economy and its evolution over time. The goal of this project is the formulation of stylized facts about intra-industry development of Russian economy and determination of the major forces behind it.

- 2. (Empirical) The analysis of Russian intra-industry export structure and its evolution over time. The effect of Ruble appreciation of 2002-2007 on the intra-industrial export diversification.
- 3. (Empirical and/or theoretical) Costs of exporting analysis: informational aspects.
- 4. (Empirical and/or theoretical) Costs of exporting analysis: contractual aspects.
- 5. (Theoretical) The analysis of inter-industry diversification in the economy with heterogeneous firms.
- 6. (Empirical and/or theoretical) Role of intermediaries in international trade: information vs. technical cost reduction
- 7. (Empirical) The analysis of innovation among Russian exporters.
- 8. (Empirical) Sources of multinational advantage: target characteristics vs ex post innovation.
- 9. (Empirical) Foreign Direct Investment and internal organization of the firm.
- 10. (Empirical and/or theoretical) Exporting and capital structure of the firm.

Some Related Literature

Theory:

Allanson, P., and Montagna, C., 2005, "Multiproduct Firms and Market Structure: An Explorative Application to the Product Life Cycle", International Journal of Industrial Organization 23(7): 587–597.

Antràs, Pol and Arnaud Costinot, 2010, "Intermediation and economic integration", American Economic Review 100(2); 424-428

Antràs, Pol and Arnaud Costinot, 2011, "Intermediated trade", The Quarterly Journal of Economics 126(3): 1319-1374

Bernard, A.B., J. Eaton, J.B. Jensen and S. Kortum, 2003, "Plants and Productivity in International Trade", American Economic Review 93(4): 1268-1290.

Bernard, Andrew B., Stephen Redding, Peter K. Schott, 2007, "Comparative Advantage and Heterogeneous Firms," Review of Economic Studies 74(1): 31-66.

Brambilla, I., 2009, "Multinationals, technology, and the introduction of varieties of goods", Journal of International Economics 79(1): 89–101.

Chaney, Thomas, 2008, "Distorted Gravity: The Intensive and Extensive Margins of International Trade," American Economic Review 98(4).

Eckel, C., Iacovone, L., Javorcik, B. S., and Neary, J. P., 2009, "Multi-product firms at home and away", University of Oxford Discussion Paper.

Eckel, C., and Neary, J. P., 2010, "Multi-Product Firms and Flexible Manufacturing in the Global Economy, Review of Economic Studies 77(1): 188–217.

Fajgelbaum, Pablo D., Gene M. Grossman, and Elhanan Helpman, 2009, "Income Distribution, Product Quality, and International Trade", NBER Working Paper 15329.

Feenstra, R., and Ma, H., 2007, Optimal Choice of Product Scope for Multiproduct Firms under Monopolistic Competition, NBER Working Paper 13703.

Helpman, Elnahan, Oleg Itskhoki and Stephen Redding, 2008, "Inequality and Unemployment in a Global Economy", NBER Working Paper 14478.

Helpman, Elnahan, 2010, "Labor Market Frictions as a Source of Comparative Advantage, with Implications for Unemployment and Inequality", NBER Working Paper 15764.

Helpman, Elnahan, and Oleg Itskhoki, 2010, "Labor Market Rigidities, Trade and Unemployment", Review of Economic Studies 77 (3): 1100–1137.

Helpman, Elnahan, Oleg Itskhoki, and Stephen Redding, 2008, "Wages, Unemployment and Inequality with Heterogeneous Firms and Workers", NBER Working Paper 14122.

Hennessy, Christopher A., and Dmitry Livdan, 2009, "Debt, Bargaining, and Credibility in Firm-Supplier Relationships", Journal of Financial Economics, 93(3): 382-399.

Melitz, Marc J., 2003, "The Impact of Trade on Intra-Industry Reallocations and Aggregate Industry Productivity," Econometrica 71(6): 1695-1725.

Melitz, Marc J., and Gianmarco Ottaviano, 2008, "Market Size, Trade and Productivity", Review of Economic Studies 75(1): 295-316.

Nocke, V., and Yeaple, S. R. R., 2009, "Globalization and Endogenous Firm Scope", NBER Working Paper 12322.

Petropoulou, Dimitra, 2007, "Information costs, networks and intermediation in international trade", University of Oxford Discussion Paper

Welch, L. S., Benito, G. R. G., Silseth, P. R., and Karlsen, T., 2003, "Knowledge, internationalization of the firm, and inward-outward connections, Industrial Marketing Management 32(5): 385–396.

Welch, L. S., and Luostarinen, R. K., 1993, "Inward-outward connections in internationalization", Journal of International Marketing 1(1): 44–56.

Empirics:

Ahn, JaeBin, Amit K. Khandelwal and Shang-Jin Wei, 2011, "The role of intermediaries in facilitating trade", Journal of International Economics, 81(1): 73-85.

Arnold Jens Matthias, and Beata S. Javorcik, 2011, "Gifted kids or pushy parents? Foreign direct investment and plant productivity in Indonesia", Journal of International Economics 79: 42–53.

Aw, Bee Yan, S. Chung and Mark J. Roberts, 2000, "Productivity and Turnover in the Export Market: Micro-level Evidence from the Republic of Korea and Taiwan (China)," World Bank Economic Review, 14(1): 65-90.

Aw, Bee Yan, Mark J. Roberts, and Daniel Yi Xu, 2011, "R&D Investment, Exporting, and Productivity Dynamics", American Economic Review 101(4): 1312–1344.

Baldwin, J. R., and Gu, W., 2009, "The Impact of Trade on Plant Scale, Production-Run Length, and Diversification" in Producer Dynamics: New Evidence from Micro Data: 557 - 592.

Bernard, A.B., Grazzi, M. and Tomasi, C., 2010, "Intermediaries in International Trade: Direct versus indirect modes of export"; NBER working paper

Bernard A., J. B. Jensen, and P. Schott, 2006, "Trade Costs, Firms and Productivity," Journal of Monetary Economics 53(5): 917-937.

Bernard, A. B., Jensen, J. B., Redding, S. J. and Schott, P. K., 2010, "Wholesalers and retailers in U.S. trade"; American Economic Review, Vol. 100, No. 2, pp. 408-13

Bernard, A. B., Redding, S. J., and Schott, P. K., 2011, "Multi-Product Firms and Trade Liberalization", Quarterly Journal of Economics 126(3): 1271–1318.

Bernard, Andrew, J. Bradford Jensen, and Peter K. Schott, 2005, "Importers, Exporters, and Multinationals: A Portrait of Firms in the U.S. that Trade Goods," NBER Working 11404.

Blum, Bernando S., Sebastian Claro and Ignatius J. Horstmann, 2008, "Intermediation and the Nature of Trade Costs: Theory and Evidence"; working paper

Blum, Bernando S., Sebastian Claro and Ignatius J. Horstmann, 2010, "Facts and Figures on Intermediated Trade"; American Economic Review 100(2): 419-423.

Bustos, Paula, 2011, "Multilateral Trade Liberalization, Exports and Technology Upgrading: Evidence on the Impact of MERCOSUR on Argentinean Firms," American Economic Review 101(1): 304–340.

Chor, Davin, 2010, "Unpacking Sources of Comparative Advantage: A Quantitative Approach," Journal of International Economics 82(2): 152-167.

Chu, Wujin and Chu, Woosik, 1994, "Signaling quality by selling through a reputable retailer: An example of renting the reputation of another agent", Marketing Science 13(2): 177-189.

Clerides, S., S. Lach and J. Tybout, 1998, "Is Learning by Exporting Important? Microdynamic Evidence from Colombia, Mexico, and Morocco", Quarterly Journal of Economics 113 (3): 903-47.

Criscuolo, Chiara, and Ralf Martin, 2009, "Multinationals and U.S. Productivity Leadership: Evidence from Great Britain," Review of Economics and Statistics 91(2): 263–281.

De Loecker, Jan, 2007, "Do Exports Generate Higher Productivity? Evidence from Slovenia, Journal of International Economics, 73.

Eaton, Jonathan, Samuel Kortum, and Francis Kramarz, 2004, "Dissecting Trade: Firms, Industries, and Export Destinations," American Economic Review Papers and Proceedings 94: 150-154.

Eaton, Jonathan, Samuel Kortum, and Francis Kramarz, 2008, "An Anatomy of International Trade: Evidence from French Firms," NBER Working Paper 14610.

Eaton, Jonathan, Marcela Eslava, Maurice Krueger, and James Tybout, 2007, "Export Dynamics in Colombia: Firm Level Evidence," NBER Working Paper 13531.

Feng, Li, Swenson, 2012, "The Connection between Imported Intermediate Inputs and Exports: Evidence from Chinese Firms", NBER Working Paper 18260.

Fieler, A., 2007, "Non-Homotheticity and Bilateral Trade: Evidence and a Quantitative Explanation," mimeo NYU.

Greenaway, D., and Kneller, R., 2007, "Industry Differences in the Effect of Export Market Entry: Learning by Exporting?", Review of World Economics 143(3): 416-432.

Guadalupe Maria, Olga Kuzmina, and Catherine Thomas, 2012, "Innovation and Foreign Ownership," American Economic Review 102 (7): 3594-3627.

Head, K., Jing, R. and Swenson, D.L., 2010, "From Beijing to Bentonville: Do Multinational Retailers Link Markets?", NBER working paper 16288.

Iacovone, L., and Javorcik, B. S., 2008, "Multi-Product Exporters: Diversification and Micro-Level Dynamics', Worldbank Policy Research Working Paper 4723.

Kale, Jayant R., and Husayn Shahrur, 2007, "Corporate Capital Structure and the Characteristics of Suppliers and Customers", Journal of Financial Economics, 83(2): 321-365.

Lichtenberg Frank R., Donald Siegel, Dale Jorgenson, and Edwin Mansfeld, 1987, "Productivity and Changes in Ownership of Manufacturing Plants," Brookings Papers on Economic Activity 3, 643-683.

Lileeva, Alla and Daniel Trefler, 2010, "Improved Access to Foreign Markets Raises Plant Level Productivity ... for Some Plants", Quarterly Journal of Economics 125 (3): 1051-1099.

MacKay, Peter, 2003, "Real Flexibility and Financial Structure: An Empirical Analysis", Review of Financial Studies 16(4): 1131-1165.

Pavcnik, Nina, 2002, "Trade Liberalization, Exit, and Productivity Improvements: Evidence from Chilean Plants", Review of Economic Studies 69: 245-276.

Peng, Mike W. and Anne Y. Ilinitch, 1998, "Export Intermediary Firms: A Note on Export Development Research", Journal of International Business Studie 29(3): 609-620.

Rauch, James E. and Joel Watson, 2004, "Network Intermediaries in International Trade", Journal of Economics and Management Strategy 13: 69-93.

Salomon, R. M., and Shaver, J. M., 2005, "Learning by Exporting: New Insights from Examining Firm Innovation", Journal of Economics and Management Strategy 14(2): 431-460.

Trabold, H., 2002, "Export Intermediation: An Empirical Test of Peng and Ilinitch"; Journal of International Business Studies 33(2): 327-344.

Tybout, James, 2001, "Plant- and Firm-level Evidence on the 'New' Trade Theories" (in E. Kwan Choi and James Harrigan, ed., Handbook of International Trade, Oxford: Basil-Blackwell, 2003, and NBER Working Paper 8418.

Verhoogen, Eric, 2008, "Trade, Quality Upgrading and Wage Inequality in the Mexican Manufacturing Sector," Quarterly Journal of Economics 123(2): 489-530.

Other read:

Pagano, Marco, and Paolo Volpin. 2008. "Labor and Finance." http://faculty.london.edu/pvolpin/survey.pdf

Zingales, Luigi. 2000. "In Search of New Foundations." Journal of Finance, 55(4): 1623-1653.

NBER Working Papers in PR (http://www.nber.org/papersbyprog/PR.html),

ITI (http://www.nber.org/papersbyprog/ITI.html),

CF (http://www.nber.org/papersbyprog/CF.html), and

IO (http://www.nber.org/papersbyprog/IO.html).