

POL ANTRÀS

Department of Economics
Harvard University
Littauer 207
Email: pantras@fas.harvard.edu

1805 Cambridge Street
Cambridge, MA 02138 USA
Phone: (617) 495-1236
Fax: (617) 495-8570

Webpage: <http://scholar.harvard.edu/antras>

PERSONAL INFORMATION: Born in Barcelona on June 30, 1975. Married; two daughters.

ACADEMIC POSITIONS:

2015-present: Robert G. Ory Professor of Economics, Harvard University
2007-2014: Professor of Economics, Department of Economics, Harvard University
2003-2007: Assistant Professor of Economics, Department of Economics, Harvard University

OTHER POSITIONS:

2008-present: Research Associate, National Bureau of Economic Research (NBER)
2009-present: Research Fellow, Centre for Economic Policy Research (CEPR)
2005-present: Faculty Associate, Weatherhead Center
2007-2009: Director, NBER International Trade and Organization Working Group
2018-2019: Co-Director, 2020 World Development Report, World Bank
2019: Weatherhead Center Distinguished Research Faculty Associate
2018: Visiting Faculty, Mossavar-Rahmani Center, Harvard Kennedy School
2018-2019: Co-Director, World Development Report 2019, World Bank
2014-2015: Visiting Professor, Massachusetts Institute of Technology
2011: Guest Teacher, London School of Economics
2006-2007: Visiting Assistant Professor of Economics, Massachusetts Institute of Technology
2002: Visiting Student, International Economics Section, Princeton University
1999-2002: Research Assistant, Massachusetts Institute of Technology
1998-1999: Research and Teaching Assistant, Universitat Pompeu Fabra

EDUCATION:

B.A. in Economics (highest honors), Universitat Pompeu Fabra, 1998
MSc. in Economics (highest honors), Universitat Pompeu Fabra, 1999
Ph.D. in Economics, Massachusetts Institute of Technology, 2003

Ph.D. Thesis Title: “Firms, Contracts, and Trade Structure” [\[PDF\]](#)
Thesis Committee: Daron Acemoglu (MIT), Jaume Ventura (CREI / Universitat Pompeu Fabra)

HONORS, FELLOWSHIPS, AND AWARDS:

2015: Elected Fellow of the Econometric Society
2009: Fundación Banco Herrero Prize (awarded annually to a Spanish social scientist under 40)
2007-2009: Alfred P. Sloan Research Fellow
2005-2008: Inaugural Andrew E. Furer Fellow, Department of Economics, Harvard University
2003: Review of Economic Studies European Tour
1999-2003: Bank of Spain Fellowship

- 1999-2000: Robert M. Solow Fellowship, MIT
1998: UPF Graduation Prize for Exceptional Achievement 1998 (highest GPA)
1993-1994: ASSIST scholarship
1992: Co-winner, Spanish National Olympiad in Computer Science

RESEARCH GRANTS:

- 2016: NSF Grant [#1628852](#): “Trade Frictions and Global Value Chains”
2007: Sloan Research Fellowship

ACADEMIC LECTURES AND KEYNOTE SPEECHES:

- 2019: Keynote Speaker, III Workshop on Innovation and Firm Performance, Reus
Keynote Speaker, Conference on International Economic Integration, Tübingen
Keynote Speaker, BGSE Summer Forum, Firms in the Global Economy, Barcelona
- 2018: Ohlin Lecture, Stockholm
Keynote Speaker, RIETI International Workshop on Firm Dynamics, Tokyo
Keynote Speech, Spring Meeting of Young Economists, Mallorca
Keynote Speech, XXI Encuentros de Economía Aplicada, Madrid
Keynote Address, InsTED Network Annual Conference, Syracuse
Keynote Speaker, NAREA Annual Meeting and Conference, Philadelphia
Keynote Speech, Fifth Fanhai Economics and Finance Workshop, Shanghai
Keynote Speaker, International Economics and Finance Society China, Beijing
Keynote Lecture, Global Value-Chain Training and Research Workshop, Beijing
- 2017: First Annual Workshop, European System of Central Banks Cluster 2, Madrid
Keynote Speech, 1st Catalan Economic Society Conference, Barcelona
IMF Institute Lecture, Washington D.C.
- 2016: Keynote Speech, CUHK Conference on Trade and Development, Hong Kong
Keynote Speech, 9th Biennial Conference of Hong Kong Economic Association, Hong Kong
Keynote Lecture, Global Value-Chain Training and Research Workshop, Beijing
Keynote Address, International Input-Output Association, Seoul
IMF Institute Lecture, Washington D.C.
Keynote Speech CEPR-World Bank Conference on Global Value Chains, Washington D.C
Keynote Speech Nordic International Trade Seminar, Oslo
- 2015: Keynote Speech, International Trade Study Group, Rome
Keynote Speech, CESifo “New Developments in Global Sourcing” Conference, Venice
Keynote Speech, XVI Conference on International Economics, San Sebastián
Lecture at 14th Session of the European School on New Institutional Economics, Cargese
- 2014: Keynote Speech, Columbia-Tsinghua Conference on International Economics, Beijing
Keynote Lecture, Global Value-Chain Training and Research Workshop, Beijing
Semi-plenary session, North American Econometric Society Summer Meeting, Minneapolis
- 2012: [CREI Lectures in Macroeconomics](#), Barcelona
Aix-Marseille School of Economics Globalization Lecture, Marseille
- 2011: Keynote Speech, CESifo “Trade and Finance” Conference, Nottingham
- 2010: [SERIEs Lecture at the Spanish Economic Association Annual Congress](#), Madrid

EDITORIAL WORK:

- 2015-present: Editor, *Quarterly Journal of Economics*
2011-2014: Foreign Editor, *Review of Economic Studies*
2011-2014: Member of the Editorial Committee, *Annual Review of Economics*
2010-2014: Member of the Board of Editors, *American Economic Review*
2010-2014: Associate Editor, *SERIEs*
2006-2014: Member of the Editorial Board, *Review of International Economics*
2005-2014: Associate Editor, *Quarterly Journal of Economics*
2011-2013: Co-Editor, *Journal of International Economics*
2007-2012: Associate Editor, *Journal of the European Economic Association*
2006-2011: Associate Editor, *Revista de Economía Aplicada*
2005-2008: Associate Editor, *Journal of International Economics*
2005-2009: Associate Editor, *Investigaciones Económicas*

OTHER ACADEMIC ACTIVITIES:

Member: American Economic Association, Econometric Society

Referee: American Economic Review, B.E. Journals in Macroeconomics, DT Banco de España, Econometrica, Economic Journal, Economica, Economics of Transition, Economic Theory, European Economic Review, Industrial and Corporate Change, International Economic Review, IMF Staff Papers, Investigaciones Económicas, Journal of Development Economics, Journal of Economic Behavior and Organization, Journal of Economic Growth, Journal of Economic History, Journal of Economic Theory, Journal of Economics, Journal of Economics and Management Strategy, Journal of the European Economic Association, Journal of International Economics, Journal of Monetary Economics, Journal of Political Economy, MIT Press, National Science Foundation, Princeton University Press, Quarterly Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Review of Industrial Organization, Revista de Economía Aplicada, Social Sciences and Humanities Research Council of Canada, Swiss National Science Foundation

NON-EDITORIAL BOARDS

- 2012-15: Consejo Asesor Estudios y Análisis Económico “la Caixa”
2010-15: Patronat de la Barcelona Graduate School of Economics

COURSES TAUGHT:

1. Globalization and Inequality (Econ 980DD). Undergraduate Program. Harvard. Fall 2016, 2017.
2. Advanced Topics in International Trade (Econ 2535). Ph.D. Program, Harvard. Spring of 2004, 2005, 2006, 2008, 2009, 2010, 2012, 2014, 2015, 2016, 2017, 2018, 2019.
3. International Trade and Investment (Econ 1535). Undergraduate Program, Harvard, Fall of 2007, 2008, 2015, 2016, 2017, Spring of 2012, 2013, 2014.

4. Topics in International Trade (Econ 1540). Undergraduate Program. Harvard. Spring of 2005, 2006, and 2010.
5. International Trade (14.54). Undergraduate Program. MIT. Fall 2014.
6. EC532, Ph.D. International Trade, London School of Economics, February 2011.
7. International Economics I (14.581). Ph.D. Program. MIT. Spring 2007.

Mini-Courses

1. Mini-Course at Bank of Italy, Rome. December 2015.
2. Valencia Summer School in Business and Economics. June 2015.
3. Advanced Course on Recent Advances in International Trade. Gerzensee. August 2011.
4. Barcelona Macroeconomics Summer School. July 2011.
5. Mini-Course on Contracts and International Trade. Zurich. December 2009.
6. Economics Mini-Courses. Penn State. March-April 2008.
7. International/Development Visiting Speaker Series. Northwestern. September-October 2006.
8. Multinational Firms and the Globalization of Production. CEMFI. September 2004.

PH.D. SUPERVISION AND PLACEMENT:

- 2018: Kirill Borusyak (post-doc at Princeton, then University College London)
 Alonso de Gortari (post-doc at Princeton, then Dartmouth College)
 Yuxiao Huang (Analysis Group)
- 2017: Elaine Chung (Spotify)
 Danial Lashkari (post-doc at Yale, then Boston College)
- 2016: Yang Du (McKenzie Consulting)
- 2015: Oren Ziv (Michigan State)
- 2014: Dany Bahar (Inter-American Development Bank, now at Brookings Institution)
 Raluca Dragusanu (placed at Federal Reserve Board)
- 2013: Lorenzo Casaburi (post-doc at Stanford, now at University of Zurich)
 Bohdan Kukharsky (post-doc at Tübingen, now at Baruch College, CUNY)
- 2012: Michal Fabinger (Penn State, now at University of Tokyo)
 David Hémous (INSEAD, now at University of Zurich)
- 2011: Eduardo Morales (Columbia University, now at Princeton University)
 Morten Olsen (IESE, Barcelona, now at University of Copenhagen)
 Thomas Sampson (London School of Economics)

- 2010: Sergi Basco (Carlos III, now at Autònoma Barcelona)
Gloria Sheu (Department of Justice)
- 2009: Thibault Fally (Colorado, now at Berkeley Ag-Econ)
Oleg Itskhoki (Princeton University)
- 2008: Ralph Ossa (Chicago GSB, now at University of Zurich)
Karine Serfaty (OC&C Strategy Consultants)
Heiwai Tang (Hong Kong University of Science and Technology now at JHU-SAIS)
- 2007: Davin Chor (Singapore Management University, now at Tuck at Dartmouth College)
Kalina Manova (Stanford University, now at University College London)
- 2006: Paula Bustos (CREI – UPF, now at CEMFI)
Eliza Hammel (McKinsey & Company)
Stephen Lin (U.S. Treasury, now at Federal Reserve Board)
Ruben Segura-Cayuela (Bank of Spain, now at Bank of America)
Stanley Watt (IMF, now at Facebook)
- 2005: Matilde Bombardini (University of British Columbia)

PRESENTATIONS AT CONFERENCES:

- 2019: Organizational Economics Conference, Queens University, Kingston, June
Bank of Korea Conference on “Global Economic Linkages”, Seoul, June
- 2018: American Economic Association Meetings, Philadelphia, January
- 2017: Conference on “International Trade – 200 Years After Ricardo”, University of Vienna, June
IES Summer Trade Workshop, Princeton, July
European Economic Association Meetings, Lisbon, August
Workshop on Social and Economic Networks, BFI, Chicago, September
Second ECB Annual Research Conference, Frankfurt, September
Hitotsubashi Conference on International Trade and FDI, Tokyo, December
- 2016: Federal Reserve Bank of Dallas – U. of Houston Conference on International Economics
North American Econometric Society Summer Meeting, Philadelphia
- 2015: Becker-Friedman Institute Trade Conference, Chicago, April
Conference on Trade and Institutions, Ferrara, May
CEPR ERWIT Meeting, Paris, June
Barcelona GSE Summer Forum, Trade Growth and Income Distribution, Barcelona, June
NBER Organizational Economics Conference, Cambridge, December
- 2014: NBER-China Conference, Beijing, June
CEPR-ECARES Conference, Brussels, September
- 2013: NBER “Development Meets Organizational Economics” Workshop, Cambridge, May
- 2011: “Grossman and Hart at 25” Conference, Brussels, June
IES Summer Trade Workshop, Princeton, June
CEPR Conference on Institutions and Capital Flows, Barcelona, July
- 2010: NBER ITI Summer Meeting, Cambridge, August
- 2009: American Economic Association Meetings, San Francisco, January

- ADB Conference on Asian Integration, Hong Kong, January
- 2008: American Economic Association Meetings, New Orleans, January
 NBER ITI Spring Meeting, Cambridge, March
 Society of Economic Dynamics Meeting, Cambridge, July
 European Trade Study Group Annual Conference, Warsaw, September (Plenary Session)
 LACEA/LAMES Meeting, Rio de Janeiro, November (Invited Speaker)
- 2007: Globalization and the Organization of Firms and Markets Conference, Munich, February
 Nordic Workshop in International Trade, Stockholm, May
 NBER ITI Winter Meeting, San Francisco, December
- 2006: American Economic Association Meetings, Boston, January
 World Bank Microeconomics of Growth Conference, Washington D.C., May
 Society of Economic Dynamics Meeting, Vancouver, July
 Hitotsubashi COE/RES Conference on International Trade and FDI, Tokyo, December
- 2005: American Economic Association Meetings, Philadelphia, January
 Minnesota Workshop in Macroeconomic Theory, August
 British Association for the Advancement of Science, Dublin, September
 European Trade Study Group Annual Conference, Dublin, September
- 2004: North American Summer Meeting of the Econometric Society, Providence, June
 CEPR Globalization and the Organization of Firms and Markets Meeting, Munich, June
 Society of Economic Dynamics Meeting, Florence, June
 CEPR ERWIT Meeting, Venice, September
 NBER International Trade and Investment Group Meeting, Palo Alto, December
- 2003: NBER International Trade and Organizations Group Meeting, Cambridge, May
 Review of Economic Studies European Tour, London, May
 CIAR meeting, Santiago de Compostela, July
 NBER International Trade and Investment Group Meeting, Cambridge, August
- 2002: NBER International Trade and Organizations Group Meeting, Cambridge, April

OTHER INVOLVEMENT IN CONFERENCES:

- 2019: Co-Organizer, 2nd Workshop on International Economic Networks, Vienna, June
 Program Committee, 2nd Catalan Economic Society Conference, Barcelona, June
- 2018: Co-Organizer, NBER ITI Workshop on Firms, Networks, and Trade, Cambridge, March
 Co-Organizer, 1st Workshop on International Economic Networks, Vienna, July
- 2017: Program Committee, 1st Catalan Economic Society Conference, Barcelona, June
- 2015: Program Committee, World Congress of the Econometric Society, Montréal, August
- 2012: Co-Organizer, NBER International Trade and Macro Group Meeting, Cambridge, July
- 2010: Program Committee, American Economic Association Annual Meeting, Atlanta, January
 Program Committee, World Congress of the Econometric Society, Shanghai, August
 Program Committee, European Economic Association Annual Congress, Glasgow, August
- 2009: Organizer, NBER International Trade and Organizations Group Meeting, Cambridge, May
- 2008: Organizer, NBER International Trade and Organizations Group Meeting, Cambridge, April

- Program Committee, Society of Economic Dynamics Meeting, Vancouver, July
- 2006: Co-Organizer, Fundación Ramon Areces Conference on Globalization, Barcelona, June
 Program Committee, Society of Economic Dynamics Meeting, Vancouver, July

INVITED SEMINARS:

- 2020: Scheduled to present at UCL, Geneva and Lausanne
- 2019: Stanford GSB, Minnesota, Banco de México, Bilkent (Ankara), Lucca, Bologna, and scheduled to present at Munich
- 2018: UC Davis, UT Austin, Georgetown, Michigan, HKS, Banco de la República (Bogotá), Universidad de los Andes, Rochester, Universidad ICESI (Cali), UQAM (Montreal), Princeton, ECB, Rotterdam, LSE, Waseda (Tokyo)
- 2017: Inter-American Development Bank, ScPo Paris, Brown, Clark, Tufts, UCLA, Wisconsin, CREI, Autònoma Barcelona, Toulouse, CEMFI-Carlos III in Madrid, Toronto, New Economic School in Moscow, Vienna, Notre Dame, Peterson Institute, University of Tokyo, Stockholm, Copenhagen
- 2016: Bank of Spain, Berkeley, Stanford (twice), University of British Columbia, National University of Singapore, Princeton, Boston College, Lausanne, Geneva, Bocconi, Seoul National University, Fed Board, Harvard, Chicago Booth, MIT, Columbia
- 2015: MIT, MIT Sloan, UC San Diego, Cambridge, Warwick, LSE, Aarhus, Penn State, World Bank, IMF
- 2014: Northwestern, Boston University, Dartmouth, Yale, National Bank of Belgium, Michigan, Brown, John Hopkins SAIS
- 2013: NYU Stern, Berkeley-Haas, MIT Sloan, Alicante, Valencia, LSE
- 2012: Northeastern, New Hampshire
- 2011: Mannheim, Oxford, LSE, Missouri, Columbia, Kiel, Munich, Tübingen, Bonn, Wisconsin, Boston Fed, Chicago Booth, Notre Dame, Stanford, UCLA Anderson
- 2010: ITAM, HBS, Harvard, World Bank
- 2009: University of Hong Kong, UC Santa Cruz, Oxford, CREI-UPF, Universidad de Oviedo, Toronto, Nottingham, Boston Fed, MIT, University of Zurich, Autònoma-Barcelona,
- 2008: Stanford, Industry Canada, Columbia, Yale, IMF Institute, IESE Barcelona, Universitat de Barcelona
- 2007: York University, Washington University, London School of Economics, Stanford, Brown, MIT, Vanderbilt, Connecticut, Harvard, New York Fed/NYU, Princeton, Michigan, University of Paris, IMF.
- 2006: Georgetown, World Bank, Montreal, Brandeis, Wisconsin, UC Berkeley, CREI-Pompeu Fabra, Autònoma-Barcelona, Universidad de Vigo, New York Fed, Duke, Cornell, Columbia, BU, MIT.

- 2005: Maryland, Universitat Pompeu Fabra, Houston, UC San Diego, Southern Methodist, Stockholm School of Economics, Stockholm University (IIES), ECARES, Harvard, Colorado-Boulder, Northwestern Kellogg, NYU, University of British Columbia.
- 2004: Chicago, Brown, IMF, MIT, Cornell, Michigan, Michigan State, London School of Economics, Columbia.
- 2003: Princeton (twice), Stanford, UC Berkeley, NYU, UC San Diego, Yale, Columbia, Chicago GSB, Harvard (twice), Northwestern, London School of Economics (RES Tour), MIT, Toronto, Urbana-Champaign, Penn State, Boston College, UCLA, Syracuse, Wisconsin, Texas-Austin, New York Fed, UPenn.
- 2002: Harvard

NON-ACADEMIC LECTURES AND TALKS:

- 2017: Seminario Techint, Mexico D.F.
- 2016: Reunió Cercle d’Economia, Sitges
- 2015: WorldQuant Global Summit, Puerto Rico
Economistes en Crisi, Universitat Central de Barcelona
- 2014: Lliurament de Mencions PUE, Universitat Autònoma de Barcelona
- 2011: Reunió Cercle d’Economia, Sitges
Seminario de Discusión Económica y Financiera, Banco de España
- 2009: Conferencia Inaugural, Universidad de Oviedo

PUBLICATIONS:

BOOKS

1. *Global Production: Firms, Contracts and Trade Structure*, Princeton University Press, December 2015. [\[Book Website\]](#)

ARTICLES

1. Internalizing Global Value Chains: A Firm-Level Analysis,” (joint with Laura Alfaro, Davin Chor, and Paola Conconi), *Journal of Political Economy*, Vol 127, No. 2, April 2019, pp. 509-559. [\[PDF\]](#)
2. “On the Measurement of Upstreamness and Downstreamness in Global Value Chains,” (joint with Davin Chor), in Ing, Lili Yan and Miaojie Yu (eds.), *“World Trade Evolution: Growth, Productivity and Employment”*, Routledge, 2018. [\[PDF\]](#)
3. “The Margins of Global Sourcing: Theory and Evidence from U.S. Firms,” (joint with Teresa C. Fort and Felix Tintelnot), *American Economic Review*, Vol 107, No. 9, September 2017, pp. 2514-64. [\[PDF\]](#)

4. “Inequality, Costly Redistribution and Welfare in an Open Economy,” (joint with Alonso de Gortari and Oleg Itskhoki), *Journal of International Economics*, Vol. 108, September 2017, pp. 387-412 [\[PDF\]](#)
5. “Poultry in Motion: A Study of International Trade Finance Practices,” (joint with C. Fritz Foley), *Journal of Political Economy*, Vol. 123, No. 4, August 2015, pp. 809-852. [\[PDF\]](#)
6. “Multinational Firms and the Structure of International Trade,” (joint with Stephen R. Yeaple), *Handbook of International Economics*, Vol. 4, 2014, pp. 55-130. [\[PDF\]](#)
7. “Grossman-Hart (1986) Goes Global: Incomplete Contracts, Property Rights, and the International Organization of Production,” *Journal of Law, Economics and Organization*, Vol. 30, No. 1, May 2014, pp. 118-175. [\[PDF\]](#)
8. “Organizing the Global Value Chain,” (joint with Davin Chor), *Econometrica*, Vol. 81, No. 6, November 2013, pp. 2127–2204. [\[PDF\]](#)
9. “Offshoring and the Role of Trade Agreements,” (joint with Robert W. Staiger), *American Economic Review*, Vol. 102, no. 7, December 2012, pp. 3140-3183. 2012. [\[PDF\]](#)
10. “Trade Agreements and the Nature of Price Determination,” (joint with Robert W. Staiger), *American Economic Review Papers and Proceedings*, Vol. 102, No. 3, May 2012, pp. 470-476. [\[PDF\]](#)
11. “Measuring the Upstreamness of Production and Trade Flows,” (joint with Davin Chor, Thibault Fally and Russell Hillberry), *American Economic Review Papers and Proceedings*, Vol. 102, No. 3, May 2012, pp. 412-416. [\[PDF\]](#)
12. “Intermediated Trade,” (joint with Arnaud Costinot), *Quarterly Journal of Economics*, Vol. 126, No. 3, August 2011, pp. 1319-1374. [\[PDF\]](#)
13. “Foreign Influence and Welfare,” (joint with Gerard Padró-i-Miquel), *Journal of International Economics*, Vol. 84, Issue 2, July 2011, pp. 135-148.011. [\[PDF\]](#)
14. “Regional Trade Integration and Multinational Firm Strategies,” (joint with C. Fritz Foley) in Barro, R. and J-W. Lee (eds.), *Costs and Benefits of Regional Economic Integration*, Oxford University Press, 2011. [\[PDF\]](#)
15. “International Trade and Organizations”, *NBER Reporter 2010*, Number 2 (June), pp. 7-10. [\[PDF\]](#)
16. “Intermediation and Economic Integration,” (joint with Arnaud Costinot), *American Economic Review Papers and Proceedings*, Vol. 100, No. 2, May 2010, pp. 424–28. [\[PDF\]](#)
17. “On the Role of Financial Frictions and the Saving Rate during Trade Liberalizations,” (joint with Ricardo Caballero), *Journal of the European Economic Association Papers and Proceedings*, Vol. 8, No. 2-3, April/May 2010, pp. 442-455. [\[PDF\]](#)
18. “Trade and Capital Flows: A Financial Frictions Perspective,” (joint with Ricardo Caballero), *Journal of Political Economy*, Vol. 117, No. 4, August 2009, pp. 701-744. [\[PDF\]](#)
19. “FDI Flows and Multinational Firm Activity,” (joint with Mihir Desai and C. Fritz Foley), *Quarterly Journal of Economics*, Vol. 124, No. 3, August 2009, pp. 1171–1219. [\[PDF\]](#)
20. “Organizations and Trade” (joint with Esteban Rossi-Hansberg), *Annual Review of Economics*, Vol. 1, January 2009, pp. 43-64. [\[PDF\]](#)

21. “Contractual Frictions and Global Sourcing,” (joint with Elhanan Helpman), forthcoming in Helpman, E., D. Marin, and T. Verdier (eds.), *The Organization of Firms in a Global Economy*, Harvard University Press, 2008. [\[PDF\]](#)
22. “Organizing Offshoring: Middle Managers and Communication Costs,” (joint with Luis Garicano and Esteban Rossi-Hansberg), forthcoming in Helpman, E., D. Marin, and T. Verdier, *The Organization of Firms in a Global Economy*, Harvard University Press, 2008. [\[PDF\]](#)
23. “Negotiating Free Trade,” (joint with Philippe Aghion and Elhanan Helpman), *Journal of International Economics*, Vol. 73, No. 1, September 2007, pp. 1-30. [\[PDF\]](#)
24. “Contracts and Technology Adoption,” (joint with Daron Acemoglu and Elhanan Helpman), *American Economic Review*, Vol. 97, No. 3, June 2007, pp. 916-943. [\[PDF\]](#)
25. “Offshoring in a Knowledge Economy,” (joint with Luis Garicano and Esteban Rossi-Hansberg), *Quarterly Journal of Economics*, Vol. 121, No. 1, February 2006, pp. 31-77. [\[PDF\]](#)
26. “Incomplete Contracts and the Product Cycle,” *American Economic Review*, Vol. 95, No. 4, September 2005, pp. 1054-1073. [\[PDF\]](#)
27. “Property Rights and the International Organization of Production,” *American Economic Review Papers and Proceedings*, Vol. 95, No. 2, May 2005, pp. 25-32. [\[PDF\]](#)
28. “Global Sourcing,” (joint with Elhanan Helpman), *Journal of Political Economy*, Vol. 112, No. 3, June 2004, pp. 552-580. [\[PDF\]](#)
29. “Is the U.S. Aggregate Production Function Cobb-Douglas? New Estimates of the Elasticity of Substitution,” *Contributions to Macroeconomics*, Vol. 4, No. 1, April 2004. [\[PDF\]](#)
30. “Firms, Contracts, and Trade Structure,” *Quarterly Journal of Economics*, Vol. 118, No. 4, November 2003, pp. 1374-1418. [\[PDF\]](#)
31. “Factor Prices and Productivity Growth during the British Industrial Revolution,” (joint with Hans-Joachim Voth), *Explorations in Economic History*, 40 (1), January 2003, pp. 52-77. [\[PDF\]](#)

PUBLISHED COMMENTS, BOOK REVIEWS AND BOOK INTRODUCTIONS

32. Book Introduction to *Developments in Global Sourcing*, (joint with Wilhelm Kohler and Erdal Yalcin), MIT Press, 2017.
33. Book review of *Offshoring of American Jobs: What Response from U.S. Economic Policy?* By Jagdish Bhagwati and Alan S. Blinder. Edited and with an introduction by Benjamin M. Friedman. Cambridge and London: MIT Press, 2009. [\[PDF\]](#)
34. Comment on Daniel Trefler’s “Service Offshoring: Threats and Opportunities,” in Lael Brainard and Susan Collings, eds., *Brookings Trade Forum 2005*, Brookings Institution Press. [\[PDF\]](#)

WORKING PAPERS:

35. “Venting Out: Exports during a Domestic Slump,” (joint with Miguel Almunia, David Lopez-Rodriguez, and Eduardo Morales), *submitted*, December 2018.

36. “On the Geography of Global Value Chains,” (joint with Alonso de Gortari), May 2017, revise and resubmit at *Econometrica*. [\[PDF\]](#)
37. “Global Sourcing and Assembly with Scale Economies,” (joint with Evgenii Fadeev, Teresa Fort and Felix Tintelnot), in preparation.
38. “Transitional Dynamics of the Savings Rate in the Neoclassical Growth Model,” April 2001, *dormant*. [\[PDF\]](#)

Last updated May 2019