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CURRICULUM VITAE

KEITH E. MASKUS

PERSONAL INFORMATION

Contact Information:

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Education: B.A., Economics and Mathematics, Knox College, 1976.
M.A., Economics, University of Michigan, 1979.
Ph.D., Economics, University of Michigan, 1981.

PROFESSIONAL EXPERIENCE

Current Positions:

Associate Dean for Social Sciences, University of Colorado, Boulder, 2007-present.
Professor of Economics, University of Colorado, Boulder, 1995-present.
Faculty Research Associate, Research Program on Political and Economic Change, Institute for Behavioral Studies, University of Colorado, 1995-present.
Adjunct Professor of Economics, University of Adelaide, 2001-present.
Research Fellow, Peterson Institute for International Economics, Washington, D.C., 1998-present.
Fellow, Kiel Institute for World Economics, 2005-present.
Research Fellow, CESifo Institute, University of Munich, 2007-present.

Past Positions:

Chairman of Economics Department, University of Colorado, Boulder, 2002-2006.
Visiting Professor, University of Bocconi, Milan, Italy, 2006, 2008.
Stanford Calderwood Professor of Economics, University of Colorado, Boulder, 2004-2007.
Lead Economist, The World Bank, August 2001- August 2002.
Visiting Professor, School of Economics, University of Adelaide, Adelaide, South Australia, August-November, 1997.
Associate Professor of Economics, University of Colorado, Boulder, 1989-1995.
Assistant Professor of Economics, University of Colorado, Boulder, 1981-1989.
Director of Carl McGuire Center for International Studies, University of Colorado, Boulder, June 1988-September 1996.
Visiting Senior International Economist, Planning and Economic Analysis Staff, U.S. Department of State, August 1986 - August 1987.
Visiting Research Scholar, Federal Reserve Bank of Kansas City, December 1983-August 1984, May - August 1985, and May 1992.

Positions in Scholarly Societies:

President, International Economics and Finance Society, 2008-2010.
Member, Board of Directors, Chinese Economists Society, 2010-present.

Honors and Invitations:

Chair, National Academy of Sciences Panel on International Technical Standards and Patent Policy, September 2011-present.

Project Leader, United Nations Environmental Program Panel on Innovation and Intellectual Property Rights in Green Technologies, December 2011-present.

Keynote Speaker, Chinese Economists Society annual meetings, Beijing, June 2011.

Named Chinese Economists Society Outstanding Member, 2010.

Keynote Speaker, World Trade Organization Public Forum, September 2010.

Alumni Achievement Award, Knox College, 2010.

Member, Global Agenda Council on Intellectual Property Rights, World Economic Forum, 2009-present.

Board of Distinguished Advisors, DIW DC, 2009-present.

Member, Shadow Committee on U.S. Trade Policy, organized on behalf of the Office of the U.S. Trade Representative, 2009-present.

Keynote Speaker, International Economics and Finance Society of China, inaugural conference, University of International Business and Economics, Beijing, May 2009.

Invited Lecturer, University of California at Berkeley Law School, Course on Policy Approaches for Dealing with Neglected Diseases (teleconference), February 2009.

Keynote Speaker, University of Otago Workshop in International Trade, March 2008, Dunedin New Zealand.

Visiting Scholar, China Center for Economic Research, University of Beijing, March-April 2007.

Invited Lectures, Wuhan University School of Law, Wuhan China, March 2007.

Visiting Scholar, CESifo Institute, University of Munich, September-November 2006.

Faculty Fellowship, Council on Research and Creative Work, University of Colorado-Boulder, 2006-2007.

Delivered 2006 Timme Lecture in Economics, Knox College, March 2006.

Invited Lectures, University of Bocconi, Milan, April 2006 and April 2008.

Expert Advisory Committee, *China: the Balance Sheet*, joint project of Center for Strategic International Studies and Peterson Institute for International Economics (initial volume published April 2006), 2005-2006.

Co-chair, Task Force on Intellectual Property, Initiative for Policy Dialogue, 2005-present.

Professor of International Trade, Advanced Studies Program, Kiel Institute for World Economics, January 2005 and March-April 2009.

Invited speaker, European Commission, The TRIPS Agreement: Ten Years Later, June 2004.

Advisory Council, IP-Watch, 2004-present.

Advisory Board, SCRIPT-Ed (On-line journal of AHRB Research Centre for Studies in Intellectual Property and Technology, University of Edinburgh), 2004-present.

Member, International Council on Intellectual Property Rights, 2004-present.

Keynote speaker, conference on technology transfer and the world trading system, World Trade Organization, Geneva, November 2003.

Keynote speaker, Bellagio II conference on intellectual property rights and developing countries, Rockefeller Foundation, Bellagio Italy, September 2003.

University of Colorado, Boulder Faculty Assembly Award for Excellence in Research, Scholarly, and Creative Work, 2003

Invited Lecturer, World Trade Institute, Berne Switzerland, March 2003

Invited Lecture, Distinguished Speakers in Economics Series, Industry Canada, November 2002

Member, Working Group 4 of Commission on Macroeconomics and Health, World Health Organization, 2001-2002 (contributing author of report: "Health and the International Economy").

Planning Committee, National Academy of Sciences Study "Moving Toward a Knowledge-Based Economy," March - August 2000.

Keynote speaker, "Intellectual Property Rights and Economic Development," Case Western Reserve University Law School symposium on compliance with intellectual property rights, November 16, 1999.

Invited to deliver the Robison Lecture in International Economics and Business, Knox College, November 11, 1998.

Invited to deliver the 46th Joseph Fisher Lecture, University of Adelaide, November 19, 1997.

Member, Intellectual Property Study Group, Council on Foreign Relations, 1996.

Invited Lecturer, Generale Bank Chair Series on Intellectual Property Rights, Katholieke Universiteit de Leuven, Leuven, Belgium, March 1996.

Member, International Intellectual Property Study Group, Pacific Council on International Policy, 1994-1997.

Visiting Speaker, United States Information Service, Seoul, April 1991.

Consultancies:

- Member, Review Panel of World Trade Institute National Center for Competence in Research: Trade Regulation, Swiss National Science Foundation, 2006 - present.
- Commissioned paper on "Reforming U.S. Patents: Getting Incentives Right," Council on Foreign Relations, Special Reports series, Report no. 19, December 2006.
- Commissioned problem paper on "Is Lack of Intellectual Property Rights a Problem for Development?" Copenhagen Consensus 2008 Project, 2006.
- Consultant for International Task Force on Global Public Goods, January – August 2005.
- Consultant for World Bank project to evaluate the intellectual property regime in Vietnam, January – December 2004.
- Consultant for Georgia State University, Andrew Young School, project to assess external trade reforms in Jamaica, January - November 2004.
- Co-director of World Bank project to analyze the impact of product standards and technical standards on international trade of developing countries, January 2000 - December 2003.
- Consultant for World Bank project to assess the implications for developing countries of banning parallel imports, 1999.
- Academic Advisor to the Asia Foundation and National Bureau of Asian Research project on strengthening intellectual property rights in China, 1997-2001.
- Consultant for UNCTAD project to investigate the potential effects in developing economies of implementation of the Uruguay Round Agreement on Trade-Related Intellectual Property Rights, 1996
- Consultant for World Bank project to investigate the potential effects in Lebanon of implementation of the Uruguay Round Agreement on Trade-Related Intellectual Property Rights and of an Association Agreement with EU, 1996-97.
- Consultant for World Bank project to analyze the economics of minimum international labor standards, 1996-97.
- Consultant for World Bank project to develop a CGE model of the Egyptian economy in order to simulate impacts of trade liberalization, March 1995 - May 1996.
- Consultant to Indonesian Trade Ministry, Jakarta, July-August 1991, and June 1992.
- Consultant on international trade contracts for Hutchinson, Black, Hill, and Cook, September 1985-October 1986.

RESEARCH ACTIVITY**Books and Monographs:**

14. Keith E. Maskus, editor, *Globalizing Information: the Economics of International Technology Trade* (Singapore: World Scientific Publishing, in press).
13. Keith E. Maskus, *Private Rights and Public Problems: the Global Economics of Intellectual Property in the 21st Century* (Washington DC: Peterson Institute for International Economics, under contract).
12. Mario Cimoli, Giovanni Dosi, Keith E. Maskus, Ruth Okediji, and Jerome H. Reichman, editors, *Intellectual Property Rights: Legal and Economic Challenges for Development* (Oxford: Oxford University Press, under contract).
11. Keith E. Maskus, editor, *Intellectual Property, Growth, and Trade* (Frontiers in Economics and Globalization Research Series, Volume 2, Amsterdam: Elsevier-North Holland), 2008.
10. Keith E. Maskus, *Reforming U.S. Patent Policy: Getting the Incentives Right*, Council on Foreign Relations, Council Special Report no. 19, 2006.
Reprinted in *Innovations: Technology, Governance and Globalization*, Vol. 1, no. 4, (MIT Press, 2007).
Reprinted in *International Law Review of Wuhan University*, 2007.

9. Keith E. Maskus and Jerome H. Reichman, editors, *International Public Goods and Transfer of Technology under a Globalized Intellectual Property Regime* (Cambridge: Cambridge University Press), 2005.
Reviewed in *European Intellectual Property Review*, May 2006
World Trade Review, July 2008.
8. Keith E. Maskus, editor, *The WTO, Intellectual Property Rights and the Knowledge Economy*, (Cheltenham UK: Edward Elgar Publishing, Volume 1 in the Series *Critical Perspectives on the Global Trading System*), 2004.
Reviewed in *Science and Public Policy*, March 2008.
7. Carsten Fink and Keith E. Maskus, editors, *Intellectual Property and Development: Lessons from Recent Economic Research* (Oxford: Oxford University Press and Washington DC: World Bank), 2004.
Reviewed in *Review of International Economics*, August 2006.
6. Keith E. Maskus and John S. Wilson, editors, *Quantifying the Impact of Technical Barriers to Trade: Can It Be Done?* (Ann Arbor: University of Michigan Press), 2001.
Reviewed in *Review of International Economics*, May 2005.
5. Keith E. Maskus, *Intellectual Property Rights in the Global Economy*, (Washington, DC: Institute for International Economics), 2000. This book was the subject of the *Economics Focus* column, *The Economist*, 14 April 2001.
Reviewed in *Journal of International Economic Law*, Vol. 4, 2001
Wisconsin International Law Journal, Vol. 20, 2002
International Journal of Law and Information Technology, Summer 2005.
4. Keith E. Maskus, Peter Hooper, Edward E. Leamer, and J. David Richardson, editors, *Quiet Pioneering: Robert M. Stern and His International Economic Legacy*, (Ann Arbor: University of Michigan Press), 1997.
3. James R. Markusen, James R. Melvin, William H. Kaempfer, and Keith E. Maskus, *International Trade: Theory and Evidence*, textbook, (Boston: McGraw-Hill), 1995. Translated into Chinese (1996) and Japanese (1999).
2. Stephen V. Marks and Keith E. Maskus, editors, *The Economics and Politics of World Sugar Policies*, (Ann Arbor: University of Michigan Press), Studies in International Trade Policy, 1993.
1. Keith E. Maskus, *Changes in the Structure of American Comparative Advantage in Manufacturing* (Ann Arbor: University Microfilms Research Press), 1983.

Refereed Articles and Book Chapters:

78. Keith E. Maskus, Rebecca Neumann and Tobias Seidel, "How National and International Financial Development Affect Industrial R&D," *European Economic Review*, Vol. 56, No. 1, 2012, 72-83.
77. Yin He and Keith E. Maskus, "Southern Innovation and Reverse Knowledge Spillovers: A Dynamic FDI Model," *International Economic Review*, Vol. 53, No. 1, 2012, 281-304.
76. Denise Eby Konan and Keith E. Maskus, "Preferential Trade and Welfare with Differentiated Products," *Review of International Economics*, in press.
75. Titus O. Awukose, Keith E. Maskus and Yiting An, "Knowledge Capital, International Trade and Foreign Direct Investment: A Sectoral Analysis," *Economic Inquiry*, in press.
74. Keith E. Maskus, "The Curious Economics of Parallel Imports," *The WIPO Journal: Analysis and Debate of Intellectual Property Issues*, Vol. 1, No. 2, 2010, 123-132.
73. Keith E. Maskus, "Intellectual Property and the Transfer of Green Technologies: An Essay on

- Economic Perspectives," *The WIPO Journal: Analysis and Debate of Intellectual Property Issues*, Vol. 1, No. 1, 2009, 133-137.
72. Lei Yang and Keith E. Maskus, "Intellectual Property Rights, Technology Transfer and Exports in Developing Countries," CES-ifo Working Paper no. 2464, *Journal of Development Economics*, Vol. 90, No. 2, 2009, 231-236.
71. Galina An and Keith E. Maskus, "Impacts of Alignment with Global Product Standards on Exports of Firms in Developing Countries," *The World Economy*, Vol. 32, No. 4, 2009, 552-574.
70. Keith E. Maskus and Shuichiro Nishioka, "Development-Related Biases in Factor Productivities and the HOV Model of Trade," CES-Ifo Working Paper 2253, *Canadian Journal of Economics*, Vol. 42, No. 2, 2009, 519-553.
69. Taegi Kim, Keun-Yeub Oh, and Keith E. Maskus, "The Effects of R&D and Patents on Productivity Growth in Korean Manufacturing: A Panel Data Analysis," *Pacific Economic Review*, Vol. 14, No. 2, 2009, 137-154.
68. Keith E. Maskus, "The Globalization of Intellectual Property Rights and Innovation in Services," *Journal of Industry, Competition and Trade*, Vol 8, no. 3-4, 2008, 247-267.
67. Galina An, Keith E. Maskus and Thitima Puttitanun, "Duration of Rent Extraction and the Entry Mode Decision by Multinational Enterprises," *Review of Development Economics*, Vol. 12, No. 4, November 2008, 861-876.
66. Gnanaraj Chellaraj, Keith E. Maskus, and Aaditya Mattoo, "The Contribution of International Graduate Students to U.S. Innovation," *Review of International Economics*, Vol. 16, No. 3, August 2008, 444-462.
65. Maggie X. Chen, Murat Iyigun, and Keith E. Maskus, "General Public Licensing and the Intensity of Aggregate Software Development," *Economics of Innovation and New Technology*, Vol. 16, No. 6, September 2007, 451-466.
64. Mattias Ganslandt and Keith E. Maskus, "Vertical Distribution, Parallel Trade, and Price Divergence in Integrated Markets," *European Economic Review*, Vol. 51, No. 4, May 2007, 943-970.
63. Keith E. Maskus and Felix K. Rioja, "Efficiency and Revenue Issues in the Jamaican External Trade Sector," *Public Finance Review*, Vol. 35, No. 1, January 2007, 57-82.
62. Denise Eby Konan and Keith E. Maskus, "Quantifying the Impact of Services Liberalization in a Developing Country," World Bank Policy Research Paper no. 3193, *Journal of Development Economics*, Vol. 81, No. 1, October 2006, 142-162.
Reprinted in B. Hoekman, editor, *Trade in Services at 25: Theory, Policy, and Evidence* (London: Edward Elgar, 2006).
61. Keith E. Maskus, "Assessing Coherence in China's Intellectual Property Rights Regime," *Indian Journal of Economics and Business*, Special Issue: China and India, 2006, 175-187.
Reprinted in Penelope Prime and Kishore Kulkarni, editors, *Economic Development in India and China: New Perspectives on Progress and Change* (New Delhi: Serials Publications, 2007).
60. Keith E. Maskus, "Intellectual Property Rights in Agriculture and Interests of Asian-Pacific Economies," *The World Economy*, Vol. 29, No. 6, June 2006, 715-742.
59. Changying Li and Keith E. Maskus, "The Impact of Parallel Imports on Cost-Reducing Research and Development," *Journal of International Economics*, Vol. 68, No. 2, March 2006, 443-455. (This paper won the T.K. Ann International Trade Award, 2006.)
58. John H. Barton and Keith E. Maskus, "Economic Perspectives on a Multilateral Agreement on

- Open Access to Basic Science and Technology," in Simon J. Evenett and Bernard M. Hoekman, editors, *Economic Development and Multilateral Trade Cooperation* (Palgrave/MacMillan and World Bank), 2006, 349-368.
57. Bernard M. Hoekman, Keith E. Maskus, and Kamal Saggi, "Transfer of Technology to Developing Countries: Unilateral and Multilateral Policy Options," World Bank Policy Research Paper 3332, *World Development*, Vol. 33, No. 10, October 2005, 1587-1602.
56. Yongmin Chen and Keith E. Maskus, "Vertical Pricing and Parallel Imports," *Journal of International Trade and Economic Development*, Vol. 14, No. 1, March 2005, 1-18.
55. Mattias Ganslandt and Keith E. Maskus, "The Price Impact of Parallel Imports in Pharmaceuticals: Evidence from the European Union," *Journal of Health Economics*, Vol. 23, No. 5, September 2004, 1035-1057.
54. Keith E. Maskus and Yongmin Chen, "Vertical Price Control and Parallel Imports: Theory and Evidence," (World Bank, Policy Research Working Paper 0-2035), *Review of International Economics*, Vol. 12, No. 4, September 2004, 551-570.
53. Keith E. Maskus, "Intellectual Property Rights in the WTO Accession Package: Assessing China's Reforms," in Deepak Bhattasali, Shantong Li, and William J. Martin, ed., *China and the WTO: Accession, Policy Reform, and Poverty Reduction Strategies* (Oxford: Oxford University Press), 2004, 49-68.
Reprinted in Carlos A. Primo Braga and Olivier Cattaneo, editors, *The WTO and Accession Countries* (Cheltenham UK: Edward Elgar Publishing, 2009).
52. Keith E. Maskus, "A System on the Brink: Pitfalls in International Trade Rules on the Road to Globalization," in John O'Loughlin, Lynn Staeheli, and Edward Greenberg, editors, *Globalization and Its Outcomes*, (New York: The Guilford Press), 2004, 98-116.
51. David L. Carr, James R. Markusen, and Keith E. Maskus, "Competition for Multinational Investment in Developing Countries: Human Capital, Infrastructure, and Market Size," in Robert E. Baldwin and L. Alan Winters, editors, *Challenges to Globalization* (University of Chicago Press), 2004, 383-409.
50. David L. Carr, James R. Markusen, and Keith E. Maskus, "Estimating the Knowledge Capital Model of the Multinational Enterprise: Reply," *American Economic Review*, Vol. 93, No. 3, June 2003, 995-1001.
49. James R. Markusen and Keith E. Maskus, "General Equilibrium Approaches to the Multinational Firm: A Review of Theory and Evidence," NBER working paper number 8334, in E. Kwan Choi and James Harrigan, eds., *Handbook of International Trade*, (London: Basil Blackwell, 2003), 320-349.
48. Mahmood Hussain and Keith E. Maskus, "Child Labor Use and Economic Growth: an Econometric Analysis," *The World Economy*, July 2003, Vol. 26, No. 7, 993-1018.
47. Keith E. Maskus, "Regulatory Standards in the WTO: Comparing Intellectual Property Rights with Competition Policy, Environmental Protection, and Core Labor Standards," *World Trade Review*, Vol. 1, no. 2, July 2002, 135-152. (This paper was a subject of the "Economics Focus" column in *The Economist*, 10 January 2000.)
Reprinted in Christopher May, editor, *The Political Economy of Intellectual Property Rights*, (Cheltenham, UK: Edward Elgar, 2010).
46. James R. Markusen and Keith E. Maskus, "Discriminating among Alternative Theories of the Multinational Enterprise," NBER working paper number 7164, June 1999, *Review of International Economics*, Vol. 10, no. 4, November 2002, 694-707.
45. Keith E. Maskus and Yongmin Chen, "Parallel Imports in a Model of Vertical Distribution: Theory, Evidence, and Policy," *Pacific Economic Review*, Vol. 7, no. 2, June 2002, 319-334.

44. David L. Carr, James R. Markusen, and Keith E. Maskus, "Estimating the Knowledge Capital Model of the Multinational Enterprise," *American Economic Review*, Vol. 91, no. 3, June 2001, 693-708.
43. Mattias Ganslandt, Keith E. Maskus and Eina Vivian Wong, "Developing and Distributing Essential Drugs to Poor Countries: The DEFEND Proposal," *The World Economy*, Vol. 24, no. 6, June 2001, 779-795.
42. William J. Martin and Keith E. Maskus, "The Economics of Core Labor Standards: Implications for Global Trade Policy," *Review of International Economics*, Vol. 9, no 2, May 2001, 317-328.
Reprinted in Drusilla K. Brown and Robert M. Stern, editors, *The WTO and Labor and Employment* (London: Edward Elgar, 2007).
41. Guifang Yang and Keith E. Maskus, "Intellectual Property Rights and Licensing: An Econometric Investigation," *Weltwirtschaftliches Archiv*, Vol. 137, no. 1, March 2001, 58-79.
40. Guifang Yang and Keith E. Maskus, "Intellectual Property Rights, Licensing, and Innovation in an Endogenous Product Cycle Model," *Journal of International Economics*, Vol. 53, no. 1, February 2001, 169-187.
39. James R. Markusen and Keith E. Maskus, "Multinational Firms: Reconciling Theory and Evidence," NBER working paper number 7163, June 1999, in Magnus Blomstrom and Linda Goldberg, editors, *Topics in Empirical International Economics: A Festschrift in Honor of Robert Lipsey*, (Chicago: University of Chicago Press), 2001, 71-95.
38. Denise Eby Konan and Keith E. Maskus, "Joint Trade Liberalization and Tax Reform in a Small Open Economy: The Case of Egypt," *Journal of Development Economics*, Vol. 61, no. 2, April 2000, 365-392.
37. Keith E. Maskus, "Parallel Imports," *The World Economy: Global Trade Policy 2000*, Vol. 23, no. 9, 2000, 1269-1284.
36. Keith E. Maskus and Mohamed Lahouel, "Competition Policy and Intellectual Property Rights in Developing Countries," *The World Economy*, Vol. 23, no. 4, April 2000, 595-611.
35. Keith E. Maskus and Guifang Yang, "Intellectual Property Rights, Foreign Direct Investment, and Competition Issues in Developing Countries," *International Journal of Technology Management*, Vol. 10, nos. 1/2, 2000, 22-34.
34. Keith E. Maskus and Christine McDaniel, "Impacts of the Japanese Patent System on Productivity Growth," *Japan and the World Economy*, Vol.11, no. 4, November 1999, 557-574.
33. Keith E. Maskus and Allan Webster, "Estimating the HOV Model with Technology Differences Using Disaggregated Labor Skills for the United States and the United Kingdom," *Review of International Economics*, Vol. 7, no.1, February 1999, 8-19.
32. Keith E. Maskus, "Strengthening Intellectual Property Rights in Asia: Implications for Australia," *Australian Economic Papers*, Vol. 37, no. 3, September 1998, 346-361.
31. Keith E. Maskus, "The International Regulation of Intellectual Property," *Weltwirtschaftliches Archiv*, Band 123, Heft 2, 1998, 186-208.
30. Keith E. Maskus and Mohan Penubarti, "Patents and International Trade: An Empirical Study," in K.E. Maskus, P. Hooper, E.E. Leamer, and J.D. Richardson, editors, *Quiet Pioneering: The International Economic Legacy of Robert M. Stern*, (Ann Arbor: University of Michigan Press), 1997, 95-118.
29. Keith E. Maskus and Denise Eby Konan, "Trade Liberalization in Egypt," *Review of Development Economics*, Vol. 1, no. 3, 1997, 275-293.

28. Keith E. Maskus, "Implications of Regional and Multilateral Agreements for Intellectual Property Rights," *The World Economy*, Vol. 20, no. 4, August 1997, 681-694.

27. Anthony Courakis, Keith E. Maskus, and Allan Webster, "Occupational Employment and Wage Changes in the UK: Trade and Technology Effects," in J. Borkakoti and C. Milner, editors, *International Trade and Labour Markets*, (London: MacMillan), 1997, 169-202.

26. Keith E. Maskus, "Intellectual Property Rights in the Global Information Economy," in Thomas Courchene, ed., *Policy Frameworks for a Knowledge Economy*, (Kingston, ON: John Deutsch Institute for the Study of Economic Policy), 1996, 231-270.

25. Keith E. Maskus and Allan Webster "Comparative Advantage and the Location of Inward Foreign Direct Investment: Evidence from the UK and South Korea," *The World Economy*, Vol. 18, No. 2, March 1995, 315-328.

24. Keith E. Maskus and Allan Webster, "Factor Specialization in US and UK Trade: Simple Departures from the Factor Content Theory," *Swiss Journal of Economics and Statistics*, Vol. 131, no. 3, September 1995, 419-439.

23. Keith E. Maskus, Thomas J. Rutherford, and Steven Selby, "Economic Implications of Changes in Labor Standards: A Computational Analysis for Mexico," *North American Journal of Economics and Finance*, Fall 1995, Vol. 6, No. 2, 171-188.

Also printed in:

S. Arndt, ed., *Whither NAFTA?* (Claremont, CA: The Lowe Institute), 1997.

22. Keith E. Maskus and Mohan Penubarti, "How Trade-Related are Intellectual Property Rights?" *Journal of International Economics*, Vol. 39, no. 3/4, November 1995, 227-248.

Reprinted in: Christopher May, editor, *The Political Economy of Intellectual Property Rights*, (Cheltenham, UK: Edward Elgar), 2010.

21. Keith E. Maskus, Catherine D. Sveikauskas, and Allan Webster, "The Composition of the Human Capital Stock and Its Relation to International Trade: Evidence from the U.S. and Britain," *Weltwirtschaftliches Archiv*, Band 130, Heft 1, 1994, 50-76.

20. Keith E. Maskus, Juan Blyde, and Jill L. Van Stone, "The Contribution of Detailed Labor Skills to U.S. Trade with Canada and Mexico," *The North American Journal of Economics and Finance*, Vol. 5, No. 2, 1994, 185-200.

19. Keith E. Maskus and Denise Eby Konan, "Trade-Related Intellectual Property Rights: Issues and Exploratory Results," in Alan V. Deardorff and Robert M. Stern, editors, *Analytical and Negotiating Issues in the Global Trading System* (Ann Arbor: University of Michigan Press), 1994, 401-446.

18. Keith E. Maskus, "The New Issues: Trade-Related Intellectual Property Rights and the European Community," *The European Economy*, No. 52, 1993, 157-184.

17. Keith E. Maskus and Reza Ramazani, "Testing the Heckscher-Ohlin-Vanek Theorem in an Industrializing Economy: The Case of Korea," *Review of Economics and Statistics*, vol. 75, No. 3, August 1993, 568-572.

16. Keith E. Maskus, "Comparing International Trade Data and Product and National Characteristics Data for the Analysis of Trade Models," in J. David Richardson and Peter Hooper, editors, *International Economic Transactions: Issues in Measurement and Empirical Research* (National Bureau of Economic Research, Studies in Income and Wealth, Volume 55, University of Chicago Press), 1991, 17-56.

15. Bernard Udis and Keith E. Maskus, "Offsets as Industrial Policy: Lessons from Aerospace," *Defence Economics*, Vol. 2, March 1991, 151-164.

Also printed in:

Keith Hartley and Todd Sandler, eds., *The Economics of Defence*, (London:

Edward Elgar, 2000).

14. Keith E. Maskus and Abbas Pourgerami, "Inflation and Its Predictability in High-Inflation Countries of Latin America: A Research Note on Two Competing Hypotheses," *Journal of International Development*, Vol. 2, No. 3, July 1990, 373-79.
13. Keith E. Maskus "Intellectual Property Rights," in Jeffrey J. Schott, editor, *Completing the Uruguay Round: A Results-Oriented Approach to the GATT Trade Negotiations* (Washington, D.C.: The Institute for International Economics), 1990, 164-179.
12. Keith E. Maskus, "Normative Concerns in the International Protection of Intellectual Property Rights: Implications for the Uruguay Round," *The World Economy*, Vol. 13, No.3, September 1990, 387-409.
Also printed in:
Robert House, editor, *The World Trading System*, Routledge Press, 1998;
Hans Singer, et al, editors, *New World Order, Volume 15: TRIPS and the Uruguay Round*, BRPC Press, Delhi, 1998.
11. Keith E. Maskus and Denise R. Eby, "Developing New Rules and Disciplines on Trade-Related Investment Measures," *The World Economy*, Vol. 13, No. 4, December 1990, 523-40.
Also printed in:
Robert M. Stern, editor, the *Multilateral Trading System: Analysis and Options for Change* (Ann Arbor: University of Michigan Press), 1993, 449-472.
10. Keith E. Maskus, Deborah Battles, and Michael Moffett, "Determinants of the Structure of U.S. Manufacturing Trade with Japan and Korea, 1970-1984," in David Audretsch and Michael Claudon, editors, *The Internationalization of U.S. Markets* (New York: New York University Press), 1989, 97-122.
9. Keith E. Maskus, "Large Costs and Small Benefits of the American Sugar Programme," *The World Economy*, Vol. 12, No. 1, March 1989, 85-104.
8. Abbas Pourgerami and Keith E. Maskus, "The Effects of Inflation on the Predictability of Price Changes in Latin America: Some Estimates and Policy Implications," *World Development*, Vol. 15, No. 2, February 1987, 287-90.
7. Keith E. Maskus, "The Effects of Real Exchange Rate Risk on Trade: Concepts and Evidence from U.S. Sectors," *Journal of Foreign Exchange and International Finance*, Vol. 1, No. 2, April 1987, 190-201.
6. Keith E. Maskus, "The View of Trade Problems from Washington's Capitol Hill," *The World Economy*, Vol. 10, No. 4, December 1987, pp. 409-23.
5. Keith E. Maskus, "A Test of the Heckscher-Ohlin-Vanek Theorem: The Leontief Commonplace," *Journal of International Economics*, Vol. 19, No. 3-4, November 1985, 201-12.
4. Keith E. Maskus and Alok Bohara, "The Substitution of Capital, Skills, and Labor in U.S. Manufacturing Trade: Implications for Employment and Incomes," *Papers of the Regional Science Association*, Vol. 57, 1985, 47-62.
3. Keith E. Maskus and Alok Bohara, "Estimates of an Aggregate Cobb-Douglas Production Function for Nepalese Industry," *The Indian Journal of Economics*, Vol. 64, Part 3, No. 254, January 1984, 313-25.
Also printed in:
The Economic Journal of Nepal, Vol. 7, No. 2, April-June 1984, 32-43.
2. Keith E. Maskus, "Evidence on Shifts in the Determinants of the Structure of U.S. Manufacturing Foreign Trade, 1958-76," *Review of Economics and Statistics*, Vol. 65, No. 3, August 1983, 15-22.
1. Robert M. Stern and Keith E. Maskus, "Determinants of the Structure of U.S. Foreign Trade,

1958-76," *Journal of International Economics*, Vol. 11, No. 2, May 1981, 207-24.

Law Review Articles:

8. Keith E. Maskus, "Using the International Trading System to Foster Technology Transfer for Economic Development," *Michigan State University Law Review*, Vol. 2005, No. 1, Spring, 219-242.
7. Keith E. Maskus and J. H. Reichman, "The Globalization of Private Knowledge Goods and the Privatization of Global Public Goods," *Journal of International Economic Law*, Vol. 7, No. 2, June 2004, 279-320. In 2008 and 2009 this paper was ranked in the "top 10 downloads all-time" in SSRN's "Science, Technology and Innovation" research papers category.
Also printed in:
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WIPO-INPI International Seminar on Intellectual Property, Industrial Strategy and Economic Development, Rio de Janeiro, keynote speaker, May 2010.

Summit of Global Agenda Councils, World Economic Forum, Dubai, November 2009.

DEGIT-IV Conference, UCLA, plenary speaker, June 2009.

International Economics and Finance Society, China, Beijing, keynote speaker, May 2009.

Federal Reserve Bank of Dallas and Southern Methodist University, Joint Conference on "Globalization, Political Economy, and Trade Policy," Dallas, April 2009.

Duke University Law School, Conference on "Hot Topics in Intellectual Property," February 2009.

University of Torino, Conference on "Innovation, Imitation, and Economic Growth," Alessandria, Italy, October 2008.

Global Economic Symposium, Ploen Germany, September 2008.

Swedish Association for the Protection of Industrial Property, Conference on "The Role of the Intellectual Property System: Today and in the Future" Stockholm, August 2008.

World Trade Institute, Conference on "Fragmentation and Coherence in International Trade Regulation," Bern Switzerland, July 2008

University of Michigan, Ford School of Public Policy Conference on "Systemic Implications of Transatlantic Regulatory Cooperation and Competition," Ann Arbor, May 2008.

Georgia Technological University, Department of Economics Conference on International Trade Research, April 2008.

University of Otago Workshop in International Trade, Dunedin, New Zealand, March 2008.

National Bureau of Economic Research, Workshop on Location Decisions of Multinational Pharmaceutical Enterprises, Savannah, March 2008.

Research Institute of Economy, Trade and Industry, Conference on "Intellectual Property Rights and East Asian Renaissance," Tokyo, January 2008.

Oxford Conferences on Innovation and Technology Transfer for Global Health, Oxford University, Oxford, UK, September 2007.

International Agricultural Trade Research Consortium, St. Petersburg, December 2006.

Empirical Trade Conference, Wilfrid Laurier University, Waterloo Canada (keynote speaker), December 2006.

University of Munich and University of Tübingen, 2d Joint Workshop on Trade and Investment, Munich, September 2006.

Asian Economic Panel Meetings, Keio University, Tokyo, September 2006.

National Bureau of Economic Research, Summer Institute Meetings on Innovation Policy and the Economy, Cambridge MA July 2006.

Global Trade Analysis Project, 9th Annual Conference on Global Economic Analysis, "Multilateralism, Bilateralism, and Development," joint with United Nations Economic Commission for Africa, Addis Ababa, Ethiopia, June 2006, plenary speaker.

Institute of Law and Commerce in International Development, Conference on "International Trade And Development: WTO and Beyond," Sao Paulo, Brazil, May 2006.

Yale University Law School, Conference on "Access to Knowledge," April 2006.

Center for Strategic and International Studies and Institute for International Economics, joint meeting on China-U.S. Futures, February 2006.

Council of Graduate Schools, Annual Meetings, Palm Springs, December 2005, "Globalization and Graduate Education," plenary speaker.

Gordon Research Conference, "Technology Transfer and Biotechnology," Oxford University, Oxford UK, September 2005.

European Trade Study Group, 2005 Meeting, University College Dublin, September 2005.

- Chinese Economists Society, Conference on "Sustainable Economic Growth in China," Chongqing, June 2005.
- CREI, World Bank, and Universitat Pompeu Fabra, Conference on "R&D and Innovation in the Development Process," Barcelona, June 2005.
- Keio University and Yokohama National University, Conference on "East Asian Economic Linkages: Trade, Innovation, and Growth," Yokohama, Japan, December 2004.
- City University of Hong Kong, Conference on "Advances in International Economics III: Intellectual Property Rights and Trade," Hong Kong, May 2004.
- Hitotsubashi University and University of Michigan Joint Conference on "US-Japan Trade Relations," Tokyo, May 2004.
- Michigan State University-DCL College of Law, Conference on "Intellectual Property, Sustainable Development, and Endangered Species," East Lansing, March 2004.
- US Department of Commerce, Conference on "Empirical Trade Analysis," (keynote speaker) Washington DC, January 2004.
- Rockefeller-UNCTAD Second Annual Conference on "Intellectual Property Rights and Developing Countries", Bellagio, Italy, September 2003.
- World Trade Institute, conference on "New Directions for the World Trade Organization", Berne Switzerland, June 2003.
- University of Kiel, conference on "Contracts, Competition, and International Trade," Kiel Germany, May 2003.
- Duke University Law School conference on "Technology Transfer and Global Public Goods", Durham, NC, April 2003.
- Brookings Institution and Center for Global Development, Workshop on "New Directions in the Global Patent Regime for Enhancing Access to Medicines for Developing Countries," Washington, DC, January 2003.
- Asian Development Forum, Annual Meeting, "Trade and Poverty Reduction," Seoul, November 2002.
- World Bank, Conference on "Toward a Model of Fair Trade in Intellectual Property," Washington DC, October 2002.
- Institute for Southeast Asian Studies, Conference on "Trade and Poverty in East Asia," Singapore, September 2002.
- World Bank, Conference on "Trade and Poverty in East Asia," Tokyo, September 2002.
- CEFIR Conference, "Negotiating Russia's WTO Accession: Strategic Lessons from Multilateral Trade Liberalization and Club Enlargement," Moscow, June 2002.
- Academy of International Business, Annual Meeting, San Juan, Puerto Rico, June 2002.
- World Bank, Annual Bank Conference on Development Economics, Washington DC, April 2002.
- University of Wisconsin Law School, Conference on "Essential Medicines for the Developing Countries: Are IPRs a Help or Hindrance?" Madison, March 2002.
- University of Toronto and York University Conference on "From Doha to Kananaskis: the Future of The World Trade Organization," Toronto, March 2002.
- Columbia University, Conference on "Intellectual Property Rights and the Prospects for U.S.-Japan Cooperation in Asia," New York, February 2002.
- International Agricultural Trade Research Consortium, Tucson, AZ, December 2001.
- MOFTEC-World Bank Conference on "Economic Implications of China's Accession to the WTO," Beijing, PRC, October 2001.
- Australian National University, 27th Pacific Trade and Development Conference on "The New Economy: Challenges for East Asia and the Pacific," Canberra, August 2001.
- Royal Institute of International Affairs, Conference on "The Economics of Essential Medicine," London, Chatham House, July 2001.
- Commission on Macroeconomics and Health, Working Group 4, Conference on "The Effects of Globalization on Disease Control Efforts in the Developing World," Geneva, World Health Organization, July 2001.
- Industry Canada, Conference on "Canadian Intellectual Property Regulation in the Knowledge Economy," Toronto, May 2001.
- Keio University and University of Michigan joint conference on "U.S.-Japan Trade and Macroeconomic Relations," Tokyo, May 2001.
- Washington University Law School, Conference on "Intellectual Property, Digital Technology, and Electronic Commerce," St. Louis, April 2001.
- World Bank, Seminar on Intellectual Property Reform in Developing Countries, March 2001.
- Islamic University of Malaysia, Kuala Lumpur, Conference on "Globalization, the WTO, and the

- New Trade Agenda," October 2000.
- University of Michigan, School of Public Policy Studies, Conference on "Issues and Options for the Multilateral, Regional, and Bilateral Trade Policies of the United States and Japan," October 2000.
- University of Colorado, Conference on "Intra-Industry Trade After 25 Years," August 2000.
- World Bank, Annual Bank Conference on Development Economics, April 2000.
- World Bank, Conference on "Quantifying Standards and Technical Barriers to Trade: Can It Be Done?" April 2000.
- Vanderbilt University Law School, Conference on "Taking Stock: The Law and Economics of Intellectual Property Rights," April 2000.
- University of Illinois Law School, Conference on "Intellectual Property Challenges in the Next Century," April 2000.
- Allied Social Science Association:
Denver, January 2011.
Atlanta, January 2010.
San Francisco, January 2009.
New Orleans, January 2008.
San Diego, January 2004.
Washington, DC, January 2003.
Atlanta, January 2002.
New Orleans, January 2001.
Boston, January 2000.
New York, January 1999.
Chicago, January 1998.
San Francisco, January 1996.
Anaheim, January 1993.
Atlanta, December 1989.
Washington, DC, December 1981.
Atlanta, December 1979.
- National Bureau of Economic Research, Cambridge:
July 2006.
March 2001
February 1999 and June 1999.
December 1993.
August and March 1990.
August and November 1989.
April 1988.
February 1986.
- Institute for International Economics:
Conference on Prospects for the WTO Ministerial, October 1999.
Conference on Uruguay Round, April 1989.
- World Trade Organization, Conference on "Interests of the Developing Countries in the Millenium Round," Geneva, September 1999.
- Federal Reserve Bank of St. Louis, Conference on "New Trade Issues in the Millenium Round," St. Louis, October 1999.
- Conference on Empirical Investigations in International Trade:
University of Colorado (organizer), October 2009.
Purdue University, October 2007.
Purdue University, October 2005.
Purdue University, November 2003.
Emory University, November 2002.
University of Colorado (organizer), November 2000.
Purdue University. November 1999.
Purdue University, November 1998.
Purdue University, November 1996.
Purdue University, November 1994.
- National Bureau of Asian Research, Joint Sino-U.S. Conferences on Intellectual Property Rights and Economic Development:
Shanghai, May 1999.
Chongqing, September 1998.

University of Kobe, Conference on “New Research in International Trade: Theoretical and Empirical Investigations,” Kobe, Japan, March 1998.
 Copenhagen Business School, Conference on “Empirical Research in International Trade and Investment,” Copenhagen, June 1998.
 Midwest International Economics Meetings:
 April 2005.
 May 1997.
 October 1996.
 October 1995.
 May 1993.
 October 1992.
 April 1989.
 Southeast Economic Theory and International Meetings:
 October 2000.
 ICAPE Conference, Sydney, August 1997.
 International Economic Studies Group Meetings, University of Nottingham, UK, September 1997.
 Conference on “Private-Public Initiatives to Improve Intellectual Property Rights in Evolving Economies”, Brussels, July 1997.
 Western Economic Association International:
 Honolulu, July 2008
 San Francisco, July 1996.
 San Francisco, July 1992.
 Vancouver, July 1987.
 San Francisco, July 1986.
 Conference on Multilateral Trading System in a Globalizing World, East-West Center, Maui, August 1996.
 Conference on Political Economy of Trade and Labor Markets, UCLA, September 1996.
 Meetings of the Swiss Society of Statistics and Economics, Geneva, March 1995.
 Southern Economic Association Meetings, New Orleans, November 1995.
 Bell Papers Annual Conference, Queen’s University, November 1995.
 Conference on Trade and Labor Markets, University of Reading, UK, March, 1995.
 University of Michigan Conference on Analytical and Negotiating Issues in the World Trading System, November 1994.
 International Economics Study Group, Summer Meetings, Reading, UK, September, 1993.
 Western Regional Science Association Meetings, Hawaii, February 1990.
 Eastern Economic Association:
 New York, February 2009.
 Pittsburgh, March 1985.
 New York, March 1984.
 Regional Science Association, Denver, November 1984.

Universities and Colleges

University of Colorado, Boulder, numerous occasions.
 Economics Institute, Boulder, CO, numerous occasions.
 Queen’s University, College of Business, February 2011.
 Colorado College, February 2011.
 University of Southern California, School of International Relations, January 2011.
 Shanghai Institute of Foreign Trade, Shanghai, May 2010.
 Princeton University, Woodrow Wilson School, April 2010.
 University of Pittsburgh, April 2009.
 Kiel Institute for World Economics, March 2009.
 Carleton University, February 2009.
 University of West Virginia, November 2008.
 University of Tennessee, November 2008.
 Paris One (Sorbonne) University, September 2008.
 University of Missouri at Columbia, February 2008.
 Purdue University, November 2007.
 Indiana University - Bloomington, October 2007.
 University of Adelaide, May 2007.
 Australian National University, Canberra, May 2007.

Sichuan Normal University, Chengdu, April 2007.
 Peking University, March 2007.
 London School of Economics, November 2006.
 Catholic University of Louvaine, Louvaine-la-Neuve, October 2006.
 University of Mannheim, September 2006.
 Oregon State University, May 2006.
 University of Sao Paulo School of Law, May 2006.
 Bocconi University, Milan, May 2006.
 University of North Carolina, Chapel Hill, April 2006.
 University of Redlands, February 2006.
 University of Denver, November 2005.
 University of Kiel and Kiel Institute for World Economics, joint seminar, January 2005.
 Georgia State University, November 2004.
 Georgia Technological University, November 2004.
 Shanghai University, Shanghai China, October 2004.
 Michigan State University, October 2004.
 University of Florida, April 2004.
 University of Wisconsin at Milwaukee, April 2004.
 University of Michigan, Ann Arbor, March 2004.
 Hitotsubashi University, Tokyo, June 2003.
 Yokohama National University, June 2003.
 New York University Stern School of Business, April 2003.
 New York University School of Law, March 2003.
 University of Hawaii, February 2003.
 University of Oregon, May 2002.
 Cornell University, May 2002.
 George Mason University, April 2002.
 University of California at Berkeley, November 2001.
 Shanghai University of Finance and Economics, Shanghai PRC, November 2001.
 Georgetown University Law Center, October 2001.
 University of Melbourne, Australia, August 2001.
 Pennsylvania State University, November 2000.
 Southern Methodist University, March 2000.
 Georgia State University, March 2000.
 American University, February 2000.
 Case Western Reserve Law School, Keynote Speaker, "Intellectual Property Rights and
 Economic Development," November 1999.
 Fletcher School, Tufts University:
 April 1999.
 February 1989.
 Homerton College, Cambridge University, UK, September 1999.
 University of New Mexico, February 1999.
 Vanderbilt University, March 1999.
 University of Georgia, October 1998.
 Knox College: November 1998.
 Syracuse University:
 October 1997.
 July 1987.
 University of Hawaii:
 March 1997.
 December 1994.
 University of British Columbia, May 1997.
 University of Adelaide, August 1997.
 Australian National University, Canberra, August 1997.
 Flinders University, Adelaide, October 1997.
 Chinese University of Hong Kong, December 1997.
 Katholieke Universiteit de Leuven, Leuven, Belgium, March 1996.
 University of California at Los Angeles:
 November 1988.
 May 1995.

University of Notre Dame, November 1994.
 El Colegio de Mexico, Mexico City, March, 1994.
 University of Denver School of Law, March, 1994.
 George Washington University, August, 1994.
 Purdue University, December, 1993.
 University of Reading, UK:
 January 1993.
 February 1992.
 Carleton University, January 1992.
 University of Michigan, November 1991.
 University of Pittsburgh, November 1991.
 University of Illinois, Champaign-Urbana, March 1990.
 University of California at Santa Cruz, February 1989.
 Middlebury College, Middlebury, Vermont, April 1988.
 University of Denver, Graduate School of International Studies, April 1988.
 University of Maryland, June 1988.
 North Carolina State University, Raleigh, January 1987.
 University of Pittsburgh, Pittsburgh, May 1987.
 University of Western Ontario, December 1987.
 Simon Fraser University, Burnaby, BC, March 1985.

Institutions

World Bank, Washington DC, numerous occasions.
 Peterson Institute for International Economics, Washington DC, numerous occasions.
 Federal Reserve Bank of Kansas City, numerous occasions.
 U.S. Department of State, numerous occasions.
 U.S. International Trade Commission, numerous occasions.
 US Patent and Trademark Office, Experts Meeting on Launching the USPTO Economics Research Agenda, UC-Berkeley, September 2010.
 World Intellectual Property Organization, Experts Meeting on Intellectual Property Rights and Economic Development, Geneva, February 2010.
 World Intellectual Property Organization, National Roundtable on the Economics of Intellectual Property, Delhi, March 2007.
 World Health Organization, Developing a Methodology to Assess the Impact of TRIPS-Plus Provisions Affecting Drug Prices, Geneva, July 2006.
 World Bank Knowledge Economy Forum V, Innovation and Technology Absorption for Growth, Prague, March 2006.
 Economic Commission for Latin America and the Caribbean, Regional Course on Technology Management and Intellectual Property, Santiago, December 2005.
 U.S. Department of Agriculture, Economic Research Service, Conference on Food Regulations and the Emergence of Private Standards: Implications for International Trade, Washington, November 2005.
 U.S. Patent and Trademark Office, Symposium on IPRs for Judges, Washington, July 2005.
 WIPO International Symposium on Intellectual Property Education and Research, Geneva, June 2005.
 Joint WIPO-WTO Workshop on Intellectual Property Rights and the Transfer of Technology, Geneva, November 2003.
 Canadian Department of Foreign Affairs and International Trade, Ottawa, November 2002.
 Thailand Development Research Institute, Bangkok, November 2002.
 U.S. Department of Agriculture, Economic Research Service, July 2002.
 Economic Commission for Latin America and the Caribbean, Santiago, Chile, March 2002.
 Commission on Intellectual Property Rights, U.K. Department for International Trade, London, January 2002.
 February 18 and 22, 2002.
 UNCTAD Workshop on Financing for Development, United Nations, New York, January 2002.
 International Business Leader's Advisory Council (Shanghai Mayor's Council), Shanghai, PRC, November 2001.
 World Bank Institute, Beijing, PRC, October 2001.
 Colorado Bar Association, September 2000.
 U.S. Department of Justice, Anti-trust Division, August 2000.

Brookings Institution Roundtable on Trade Policy, February 2000.
U.S. International Trade Commission, March 2000.
Japan-U.S. Friendship Commission, Washington DC, April 1999.
United Nations Conference on Trade and Development, Geneva:
September 1999.
July 1996.
Video Testimony before Australian Senate Commerce Subcommittee, November 1998.
World Trade Organization, Geneva, March 1996.
Council on Foreign Relations, New York, April 1996, March and June 2006.
Ministry of International Cooperation, Cairo, July 1995.
International Intellectual Property Study Group, University of Southern California, October 1994.
General Agreement on Tariffs and Trade, Geneva, February 1993.
Canadian Ministry of External Affairs, January 1992.
Commission of the European Communities:
February 1992.
September 1991.
Korea Institute for International Economic Policy, Seoul, March 1991.
Republic of Indonesia, Ministries of Trade and Justice, Jakarta, July 1991.
Institute for Research in Public Policy and Ministry of Consumer and Corporate Affairs, Toronto,
April 1990.

Service as Uncompensated Background Technical Expert:

United States International Trade Commission, "Impacts of Intellectual Property Infringement on the US Economy," report issued May 2011.

United States Government Accountability Office, "Intellectual Property: Observations on Efforts to Quantify the Economic Effects of Counterfeit and Pirated Goods," report issued April 2010.

Funded Research:

"Intellectual Property Rights and International Technology Transfer to Address Climate Change: Foundations, Problems and Potential Solutions," (with Ruth L. Okediji), International Center for Trade and Sustainable Development, September 2008 – November 2009.
"Differentiated Intellectual Property Regimes for Environmental and Climate Technologies," Organization for Economic Cooperation and Development, document ENV/EPOC/WPNEP(2009)6, April 2009 – November 2009.
"The Role of International Graduate Students in Generating Knowledge at U.S. Universities: Evidence from Enrollment Fluctuations," (co-PI, with Ahmed Mobarak), National Science Foundation, January 2008 – December 2010.
"Drug Pricing Under Generic Competition: A Review of the Economics Literature," World Health Organization, June 2006 - August 2006.
"The Impact of Foreign Graduate Students on Innovation," (with Ahmed Mobarak), National Bureau of Economic Research, August 2005 - May 2006.
"Information as a Global Public Good," International Task Force on Global Public Goods, January – August 2005.
"TRIPS, Development, and Capacity Building," Swedish International Development Agency, July 2003 - November 2003.
"Encouraging International Technology Transfer," United Nations Conference on Trade and Development, February 2003 - September 2003.
"R&D, Patents, and Productivity Growth in Korean Manufacturing," (with Taegi Kim), Korea Research Foundation, January 2003 - December 2003.
"Empirical Evaluation of the Price Impact of Parallel Imports in Sweden," (with Mattias Ganslandt), Swedish Competition Authority, July 2002 - January 2003.
"Parallel Imports in Pharmaceuticals: Theory and Evidence," World Intellectual Property Organization, July 1999 - April 2001.
"Implications of Restrictions against Parallel Imports in Pharmaceutical Drugs," Council for Research on Creative Work, University of Colorado at Boulder, March 1999–March 2000.

- "Costs and Benefits of Parallel Imports for Developing Countries," World Bank, February-June 1999.
- "Patent Systems, Licensing Agreements, and Joint Ventures in the Context of U.S.-Japan Competition Policy," (with Christine McDaniel), Japan-United States Friendship Commission, September 1998–September 1999.
- "Intellectual Property Rights in Lebanon," World Bank, July 1996-March 1997.
- "Labor Standards and Trade Policy," World Bank, January-June 1996.
- "An Applied General Equilibrium Analysis of Egyptian Trade Liberalization Possibilities," World Bank, March-October 1995.
- "Assessing the Trade Impacts of International Differences in Patent Regimes," National Science Foundation, Grant No. SBR-9410625, July 1994-May 1996.
- "International Trade and Patenting Behavior," Council on Research and Creative Work, University of Colorado at Boulder, Grant in Aid, 1993.
- "The New Issues: Trade Related Intellectual Property Rights and the European Community," Directorate General for Economic and Financial Affairs, European Commission, June 1991 - January 1992.
- "The Economics of International Protection of Intellectual Property Rights: Background and Analysis," U.S. Department of Labor, Bureau of International Labor Affairs, July 1988-June 1989.

Funded Conferences Organized:

Conference on "International Public Goods and Transfer of Technology under a Globalized Intellectual Property Regime" (co-organizer), Duke University School of Law, April 4-6 2003. Funding provided by MacArthur Foundation and Rockefeller Foundation.

Conferences on "Empirical Investigations in International Trade", University of Colorado at Boulder, November 2000 and Estes Park, CO, October 2008. Funding provided by University of Colorado and Purdue University.

Ad Hoc Refereeing Activity:

Journals: American Economic Review; American Journal of Agricultural Economics; Australian Economic Papers; Bulletin of Economic Research; Canadian Journal of Economics; China Economic Review; Contemporary Economic Policy; Economic Development and Cultural Change; Economic Inquiry; Economic Journal; Economic Modeling; Economics Letters; Economics of Innovation and New Technology; Economics of Planning; European Economic Review; European Journal of Comparative Economics; Food Policy; Health Economics; Industrial Relations; International Economic Review; International Review of Economics and Finance; International Review of Law and Economics; International Organization; International Studies Quarterly; Journal of Applied Econometrics; Journal of Asian Economics; Journal of Comparative Economics; Journal of Development Economics; Journal of Economic Inequality; Journal of Energy and Development; Journal of Economic Growth; Journal of the European Economics Association; Journal of Health Economics; Journal of Industry, Competition and Trade; Journal of Institutional Economics; Journal of International Economics; Journal of International Economic Integration; Journal of International Money and Finance; Journal of International Trade and Economic Development; Journal of Labor Economics; Journal of Law, Economics and Organization; Journal of Policy Analysis and Management; Journal of Public Economics; Journal of Regional Science; Journal of Urban Economics; Journal of World Intellectual Property; Law and Policy; The Manchester School Journal of Economics; Melbourne Journal of International Law; Natural Resources Forum; North American Journal of Economics and Finance; Open Economies Review; Oxford Bulletin of Economics and Statistics; Oxford Economic Papers; Papers of the Regional Science Association; Quarterly Journal of Economics; RAND Journal of Economics, Research Policy; Review of Development Economics; Review of Economic Studies; Review of Economics and Statistics; Review of International Economics; Review of International Political Economy; Science; Social Science Quarterly; Southern Economic Journal; Scandinavian Journal of Economics; Stanford Journal of Law, Science and Policy; Transnational Corporations; World Bank Economic Review; World Development; The World Economy; World Trade Review.

Grants Agencies: Hong Kong Economic Council, Japan Foundation, Korea Economics Institute,

National Science Foundation, Sloan Foundation, Swiss National Science Foundation, Social Science and Humanities Research Council of Canada.

Publishers: American Enterprise Institute, Ashgate Publishing, Harper Collins, Institute for International Economics, Center for Global Partnership, Kluwer Academic Publishers, Little, Brown and Company, MIT Press, Oxford University Press, Physica-Verlag, Princeton University Press, University of Chicago Press, University of Michigan Press, Westview Press.

Editorial Activity:

Guest Editor, *China Economic Review*, special issue 2012.
Editorial Board, *The WIPO Journal: Analysis and Debate of Intellectual Property Issues*, 2009-present.
Editorial Board, *International Review of Economics and Finance*, 2010-present.
Editorial Board, *Forum for Research on Empirical International Trade*, 2006-present.
Associate Editor, *E-economics*, 2006-present.
Editorial Board, *Review of International Economics*, 2000-2002, 2006-present.
Editorial Board, World Science Series in International Economics, 2006-present.
Editorial Board, *North American Journal of Economics and Finance*, 2002-present.
Co-editor, *Journal of International Economic Law*, symposium issue, Vol. 7, no. 2, June 2004
Editor, *The World Economy: The Americas Edition*, 2000-2003.
Associate Editor, *Review of International Economics*, 1996-2000.
Book Review Editor, *Review of International Economics*, 1994-1997.
Editorial Board, *Trade Policy Review Centre*, 1993-1997.

TEACHING ACTIVITY

Teaching Experience:

Professor, University of Colorado, Boulder, 1995-present (Graduate and Undergraduate International Trade, Economic Reform, International Economic Policy, Economics of the Pacific Area, Empirical Trade Analysis, Ph.D. Research Methods).

Visiting Professor, University of Adelaide, Fall 1997 (Undergraduate International Trade) and Spring 2007 (International Economic Policy).

Associate Professor, University of Colorado, Boulder, 1989-1995 (Graduate and Undergraduate International Trade and Finance, International Economic Policy, U.S. Economic Relations with Japan and Canada).

Faculty Member, Semester at Sea, Fall 1990 (Program directed by the University of Pittsburgh; International Trade, Finance, Economic Development).

Assistant Professor, University of Colorado, Boulder, 1981-1989 (Graduate and Undergraduate International Trade and Finance, Graduate Econometrics, Undergraduate Mathematical Economics, Principles).

Visiting Professor, Economics Institute, Boulder, Summer 1988 (Graduate International Economics).

Assistant Professor, University of Colorado, Denver, Summer 1983 (Graduate International Trade).

Teaching Fields:

1. International Trade and Finance.
2. International Economic Relations.
3. Economic Development.

4. Economics of Asian Countries
5. Intermediate Theory and Principles.

Teaching Awards:

Stanford Calderwood award for teaching excellence, Department of Economics, University of Colorado, Boulder, 2006 and 1992.

Outstanding Professor Recognition Award, Sigma Iota Rho (International Affairs Honor Society), 1995.

Finalist for campus-wide teaching award, Student Organization for Alumni Relations, University of Colorado, Boulder, 1995.

Ph.D. Dissertations Supervised:

Note: Initial placements in academic jobs are tenure-track unless otherwise indicated.

Yufang Zhang, "A Study of Chinese Innovation and Procurement Policies and Their Effects on Productivity," in progress.

Weisi Xie, "Essays on Trade, Growth and Structural Change," in progress.

Yongho Choi, "Technology Content in the Knowledge Capital Model," in progress.

Yuchen Shao, "Quality Ladders and Endogenous Growth with Multiple Inputs," in progress.

Wonju Lee, "International Technology Spillovers, Vertical Linkages and Heterogeneity: A Korean Firm-Level Analysis," in progress.

Luis Castro, "Essays on FDI and Technological Change: the Case of Chilean Firms," in progress.

Po-Lu Chen, "Three Essays on International Trade with a Focus on Intellectual Property Rights," completed December 2010 (initial placement: Tamkang University, Taipei).

Cong Khai Dinh, "Trade Effects of the WTO and Anti-dumping Policy in Developing Countries," completed September 2009 (jointly supervised with Wolfgang Keller; initial placement: University of Economics, Ho Chi Minh City).

Eric Stuen, "Essays on Patents, Skills, and Technical Change," completed July 2008 (jointly supervised with Ahmed Mushfiq Mobarak; initial placement: University of Idaho).

Yiting An, "The Impacts of Host-Country Characteristics on Cross-Industry Spillovers from Multinational Firms," completed July 2007 (initial placement: Ernst and Young Consulting, San Jose CA).

Shuichiro Nishioka, "Technology, Productivity, and Knowledge in the Factor Abundance Model" completed June 2007 (initial placement: West Virginia University).

Lei Yang, "Intellectual Property, Quality Improvements, and Exports: Theory and Empirical Evidence," completed February 2007 (initial placement: Hong Kong Polytechnic University).

Mei Yuan, "Empirical and Theoretical Studies of Product Quality and Multinational Firms in International Trade," completed February 2007 (initial placement: Charles River Associates, Washington).

Xiaofei Yang, "Domestic Innovation and Joint Ventures: IPRs, Tariffs and Spillovers," completed January 2007 (initial placement: University of Waterloo, instructor).

Kremena Platikanova, "On the Optimal Allocation of Patent Rights in a Vertical R&D Industry,"

completed July 2006 (initial placement: Analysis Group Consulting, Denver).

Katherine Sauer, "The Price Impacts of Parallel Trade: Theory and Evidence," completed July 2006 (initial placement: Southern Indiana University).

Yuan Zhuang, "Essays on Outsourcing, Foreign Direct Investment, and Intellectual Property," completed July 2006 (initial placement: Deloitte Touche Consulting).

Xiaoyang Chen, "Essays on Regionalism in Standards, International Trade, and Multinationals" completed March 2005 (initial placement: George Washington University).

Jirawat Panpiemras, "Essays on Dynamics of Intellectual Property Rights and Joint Ventures," completed December 2004 (initial placement: Thailand Development Research Institute).

Yin He, "Vertical Foreign Direct Investment, Knowledge Spillovers, and Global Growth: Models and Evidence" completed July 2004 (initial placement: Peking University).

Eina V. Wong, "Pharmaceutical Drug Prices in the International Market," completed June 2003 (jointly supervised with James Markusen; initial placement: Sun Microsystems).

Changying Li, "Three Essays on the Theory of Parallel Imports," completed April 2003 (jointly supervised with Jack Robles; initial placement: Nankai University).

Michael Nicholson, "Intellectual Property Rights, Foreign Direct Investment, and Technology Transfer," completed June 2001 (initial placement: U.S. Federal Trade Commission).

Mahmood Hussain, "Three Essays on Child Labor, International Trade, and Economic Growth," (co-supervisor), completed December 2000 (initial placement: San Francisco State University).

Christine McDaniel, "Legal and Institutional Features of a Patent System and Impacts on Technology Diffusion: Evidence from Japanese and U.S. Aggregate and Industry Data," completed July 1999 (initial placement: U.S. International Trade Commission).

Guifang Yang, "Intellectual Property Rights, Licensing, and Growth" completed June 1998 (initial placement: Charles River Associates).

Juan Blyde, "Essays in Trade Policy and Economic Growth," completed December 1997 (initial placement: Inter-American Development Bank).

Martin Ross, "Agglomeration Economies and Foreign Direct Investment," completed July 1997 (initial placement: U.S. Environmental Protection Agency).

Mukhtar Alas, "The Impact of Trade Liberalization by Major Importing and Exporting Countries on World Sugar Trade," completed December 1996 (Initial placement: Georgia State University, instructor).

Mohan Penubarti, "Market Openness and U.S. - Japan Conflict" (co-supervisor of dissertation in international relations), completed July 1994 (initial placement: UCLA).

Mustafa Nasution, "A Test of the HOV Model in Indonesia," completed December 1993 (initial placement: University of Indonesia).

Denise Eby Konan, "Essays on the Theory of Vertical Integration and Foreign Direct Investment," completed July 1993 (initial placement: University of Hawaii).

Neramit Panchangkakul, "Essays on International Trade, Factor Mobility, and Trade Policy," completed January 1992 (initial placement: Bank of Thailand).

Najat Hussain, "The Structure of Intra-Industry Trade in Pacific Asia," completed May 1992 (initial placement: University of Kuwait).

Reza Ramazani, "The Validity of the Heckscher-Ohlin-Vanek Theorem in a Newly Industrializing Country: The Case of South Korea," completed March 1990 (initial placement: St. Michael's College).

Jamel Zarrouk, "Effects of Real Exchange Rate Risk on International Disaggregated Trade: Analysis and Empirical Evidence from the U.S.A., Germany, and Japan," completed May 1987 (Initial placement: Arab Monetary Fund).

Deborah Battles, "International Technology Transfers and Dynamic Comparative Advantage: A Multi-Country, Multi-Time Period Examination of the Product Cycle Model of International Trade," completed July 1986 (Initial placement: University of Colorado, Colorado Springs).

Mohammed Zainuddin-Saleh, "A Structural Model of the Malaysian Balance of Payments," completed May 1985 (Initial placement: Kebangsaan University, Malaysia).

Teera Ashakul, "Estimates of an Acreage Response Model of Five Major Annual Crops in Thailand, 1967-1981," completed September 1983 (Initial placement: Industrial Finance Corporation of Thailand).

Ph.D. Dissertation Committee Member (since 2000):

Nune Hovhannisyan, in progress.

Youngho Kang, in progress.

Yiqing Xie, in progress.

Guanyi Li, completed 2011.

Ha Nguyen, completed 2010.

Bridget Strand, completed 2010.

Luis Bernardo Torres Ruiz, completed 2010.

William Olney, completed 2010.

Tianle Zhang, completed 2010.

J. Scott Holladay, completed 2009.

Henry Chen, completed 2009.

Molly Lipscomb, completed 2008.

Namsuk Choi, completed 2008.

Woradee Jongadsayakul, completed 2005.

Rebecca Brown, completed 2005.

Derek Kellenberg, completed 2004.

Kazuhiko Yokota, completed 2004.

Seungwon Seo, completed 2003.

Changshuh Park, completed 2003.

Galina An, completed 2003.

Thitima Puttitanun, completed 2003.

Rebecca Neumann, completed 2000.

Robin Koenigsberg, completed 2000.

Antje Baerenss, completed 2000.

Ramesh Khatri, completed 2000.

Josefina Martinez de Prera, completed 2000.

MA Theses Supervised (since 1995)

Matinee Chavapokin, "An Econometric Analysis of Trade Liberalization in Thailand," completed February 2002.

Dossym Nokenov, "Predicting the Probability of Currency Crises: New Theory and an Application to Transition Economics," completed July 2000.

Manaswini Sahu, "Patenting Pharmaceutical Products: Implications for Price and Welfare in the Indian Pharmaceutical Market," completed November 1999.

Valerie Vannett, "Trade and Wage Inequality in the United States: An Econometric Investigation," completed June 1997.

Mark Baker, "Innovation and the European Union: A Case Study of the Economic Effects of Spanish Accession," completed May 1997.

Stephen Selby, "A Computational Analysis of Labor Standards in Mexico," completed December 1996.

Roger Mahler, "Patents and TFP Growth in Japan," completed January 1996.

Harry Lutton, "The Impacts of Unions on U.S. International Trade: An Empirical Study," completed July 1995.

Undergraduate Students Supervised (since 1995)

Tamara Mack, honors (*magna cum laude*) in international affairs, 2006.

Reed Morgan, honors (*summa cum laude*) in economics, 2005.

Heather Beattie, honors (*cum laude*) in international affairs, 2001.

Jonathan Pray, honors (*magna cum laude*) in economics, 2000.

Christina Martinez, McNair Scholar and winner of UROP Grant, 1999.

Atsuko Ohkubo, honors (*magna cum laude*) in economics, 1996.

Jennifer Spinnelli, honors (*magna cum laude*) in economics, 1996.

Invited External Reader on Ph.D. Dissertations at Other Universities:

Russell K. Thomson, "Investment in Research and Development: Does Tax Policy Work?" Australian National University, Canberra, December 2008.

Azim Essaji, "Three Essays on Regulatory Protectionism," University of Toronto, August 2005.

Nwafejoku Uwadibie, "Decentralization and Economic Development: Agricultural Policies and Implementation in Nigeria, 1976-1993," Graduate School of Public Administration, University of Colorado at Denver, 1995.

Eun-Joong Kang, "The Factor Content of Trade with Unequal Factor Prices," Carleton University, Ottawa, January 1992.

Sayeeda Bano, "The Extent and Determinants of Intra-Industry Trade in Canada: An Empirical Investigation," Simon Fraser University, Vancouver, March 1985.

Funded Teaching Activity:

Development of a new course in "U.S.-Japanese-Canadian Economic Relations," Canadian Embassy to the United States, \$5,000, April 1989 - February 1990.

New Courses Developed:

International Economic Policy (Economics 3403).

Economics of the Pacific Area (Economics 4433).

Globalization and the World Trading System (Economics 4999)

Empirical International Trade Analysis (Economics 8433)

Research Methods for Ph.D. Students (Economics 8209)

SERVICE ACTIVITY AT UNIVERSITY OF COLORADO:

Departmental:

Department Chair, 2002-2006.

Associate Chair and Director of Graduate Studies, 1996-97, 1998-2000.
Associate Chair and Director of Undergraduate Studies, 1995-1996.
Undergraduate Curriculum Committee, 1995-1996.
Fundraising Committee, 1994-2006.
Research Committee, 1991-96.
Chair of Committee on Restructuring Graduate Program, 1991-1993.
Executive Committee, 1991-93, 1994-97, 1998-2006.
Departmental Self-Study Committee, 1989-90.
Recruiting Committee, 1987-88, 1992-93, 1994-95, 1998-99, 2003-04.
Director of Graduate Studies, 1984-85.
Admissions Committee, 1982-86; 1987-88.
Library Committee, 1982-85.
International Economic Development Committee, 1981-86.
Undergraduate Advisor, 1981-83.

University:

Associate Dean for Social Sciences, College of Arts and Science, 2007-present.
Faculty Affiliate, Silicon Flatirons Center for Law, Technology and Entrepreneurship, 2006-present.
Chair, Information Technology Services Task Force on Learning and Teaching Spaces, 2010.
Chair, Boulder Campus Master Plan Task Force on Academic Facilities Needs, 2009-2010.
Co-chair, Task Force on Facilities, Flagship 2030 Implementation, 2008.
Boulder Campus Planning Commission, 2007-present (chair, 2009-present).
University Licensing Advisory Committee, 2005-2006.
Law School Dean's Advisory Committee, 2003-04.
Committee on Privilege and Tenure, CU-Boulder System, 2003-2004.
Graduate Student Research and Creative Work Awards, 2001.
Chancellor's Task Force on Reforming Graduate Education, 1999.
Vice Chancellor's Advisory Committee on Personnel, 1998-2001.
University Ethics and Integrity Committee, 1998-2002.
Dean of Arts & Sciences Personnel Committee, 1996-1997.
Internal Review Panel for Latin American Studies, 1992-1993.
Boulder Faculty Assembly Budget Committee, 1991-1993.
International Affairs Committee, 1985-90, 1991-99, 2003-2005.

REFERENCES

Available upon request.