

CURRICULUM VITAE

PAMELA J. SMITH

Department of Applied Economics

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Google Scholar Citations: <https://scholar.google.com/citations?user=H32GyPkAAAAJ&hl=en>

EDUCATION

Ph.D., Economics, University of Wisconsin-Madison, 1988-92

M.A., Economics, Tufts University

(with coursework at The Fletcher School of Law and Diplomacy), 1985-86

B.A., Political Science, University of Vermont, 1978-82

Ph.D. Fields:

International Economics (Major)

Econometrics

Development Economics

Research Specializations:

International Trade and Policy

Intellectual Property Rights

Agricultural Biotechnology/GMOs (Applications)

PROFESSIONAL EXPERIENCE

Associate Professor (tenured), Department of Applied Economics, University of Minnesota, Twin Cities, Minnesota, 2000-Present.

Assistant Professor, Department of Applied Economics, University of Minnesota, Twin Cities, Minnesota, 1998-2000.

Assistant Professor, Department of Economics, University of Delaware, Newark, Delaware, 1993-1998.

Assistant Professor (Visiting), Department of Economics, Concordia University, Montreal, Quebec, Canada, 1992-1993.

Deputy Director, Office of Science and Technology, Executive Office of Economic Affairs, Commonwealth of Massachusetts, Boston, Massachusetts, 1987-1988.

Research Associate, Office of Science and Technology, Executive Office of Economic Affairs, Commonwealth of Massachusetts, Boston, Massachusetts, 1986.

RESEARCH PUBLICATIONS

Authored Books (and Companion Materials):

- [1] Smith, Pamela J. 2014. *Global trade policy: Questions and answers*. Chichester, West Sussex, United Kingdom: John Wiley and Sons, Inc.
- [2] Smith, Pamela J. 2015. Instructor's lecture notes for *Global trade policy: Questions and answers*. John Wiley & Sons, Inc. <http://www.wiley.com/go/globaltradepolicy>.
- [3] Smith, Pamela J. 2014. Instructor companion site for *Global trade policy: Questions and answers*. <http://www.wiley.com/go/globaltradepolicy>.

Refereed Journal Articles:

- [4] Smith, Pamela, and Andrew R. Tilman. 2020. Patents for self-replicating technologies: Game theoretic analysis of genetically modified seed. *Journal of World Intellectual Property Rights* 23 (3-4): 166-184.
- [5] Smith, Pamela J., Bolormaa Jamiyansuren, Akinori Kitsuki, Jooyoung Yang and Jaeseok Lee. 2018. Determinants of comparative advantage in GMO-intensive industries. *World Trade Review* 17 (3): 427-449.
- [6] Smith, Pamela J., and Erik S. Katovich. 2017. Are GMO policies "trade related"? Empirical analysis of Latin America. *Applied Economic Perspectives and Policy* 39 (2): 286-312.
- [7] Smith, Pamela J., Omar B. Da'ar, Kevin H. Monroe, Fabricio X. Nunez, and Charlotte J. Tuttle. 2009. How do copyrights affect economic development and international trade? *Journal of World Intellectual Property* 12 (3): 198-218.
- [8] Gold, Richard E., Wen Adams, David Castle, Ghislaine Cleret de Langavant, L. Martin Cloutier,

- Abdallah S. Daar, Amy Glass, Pamela J. Smith, and Louise Bernier. 2004. The Unexamined Assumptions of Intellectual Property. *Public Affairs Quarterly* 18 (4): 299-344.
- [9] Smith, Pamela J. 2002. Patent rights and trade: Analysis of biological products, medicinals and botanicals, and pharmaceuticals. *American Journal of Agricultural Economics* 84 (2): 495-512.
- [10] Gold, Richard E., David Castle, L. Martin Cloutier, Abdallah S. Daar, and Pamela J. Smith. 2002. Needed: Models of biotechnology intellectual property. *Trends in Biotechnology* 20 (8): 327-29.
- [11] Smith, Pamela J. 2002. Review of *Agriculture and intellectual property rights: Economic, institutional and implementation issues in biotechnology*, by V. Santaniello, R.E. Evenson, D. Zilberman, and G.A. Carlson, eds. *Journal of Agricultural Economics* 53 (1): 113-22.
- [12] Smith, Pamela J. 2001. How do foreign patent rights affect U.S. exports, affiliate sales, and licenses? *Journal of International Economics* 55 (2): 411-39.
- [13] Burch, R. Kurt, Pamela J. Smith, and W. Parker Wheatley. 2000. Divergent incentives to protect intellectual property: A Political Economy analysis of North-South welfare. *Journal of World Intellectual Property* 3 (2): 169-95.
- [14] Smith, Pamela J. 1999. Are weak patent rights a barrier to U.S. exports? *Journal of International Economics* 48 (1): 151-77.
- [15] Smith, Pamela J. 1999. Do geographic scale economies explain disturbances to Heckscher-Ohlin trade? *Review of International Economics* 7 (1): 20-36.
- [16] Smith, Pamela J. 1999. Do knowledge spillovers contribute to U.S. state output and growth? *Journal of Urban Economics* 45 (2): 331-53.
- [17] Smith, Pamela J. 1996. International patterns of intellectual property protection and Commodity trade: An economic perspective. *Science Communication* 17 (3): 357-78.

Book Chapters:

- [18] Smith, Pamela J. 2010. Art trade as a tool for economic development. In *Sustainable Graphic Design*, ed. Wendy Jedlicka, 92-5. New York: John Wiley and Sons.
- [19] Smith, Pamela J. 2009. Trade-related investment measures. In *The Princeton Encyclopedia of the World Economy*, eds. Kenneth Reinert and Ramkishan Rajan, 1129-31. Princeton: Princeton University Press.
- [20] Smith, Pamela J. 2009. Unwrapping global packaging: Trade and policy. In *Packaging*

Sustainability, ed. Wendy Jedlicka, 116-29. New York: John Wiley and Sons, Inc.

- [21] Smith, Pamela J. 2004. How to foreign patent rights affect U.S. exports, affiliate sales, and licenses? In *The WTO, intellectual property rights and the knowledge economy*, ed. Keith E. Maskus, 515-43. Massachusetts: Edward Elgar Publishing, Inc.
- [22] Richardson, J. David, and Pamela J. Smith. 2002. Sectoral growth across U.S. states: Factor content, spillovers, and trade. In *Trade and Growth: Models and Methods*, eds. Sir Hans Singer, Neelambar Hatti and Rameshwar Tandon, 941-84. Delhi: B.R. Publishing Corporation.
- [23] Richardson, J. David, and Pamela J. Smith. 1993. Generalized factor endowments models of export variation across trading regions. In *Sizing up U.S. export disincentives*, ed. J. David Richardson, 151-63. Washington D.C.: Institute for International Economics.
- [24] Smith, Pamela J., and Barbara L. Wolfe. 1990. Methodological issues in the international comparability of poverty: An analysis of the United States. In *Analyzing poverty in the European Community: Policy issues, research options, and data sources*, eds. Rudolf Teekens and Bernard M. S. van Pragg, 45-94. Luxembourg: Office of Official Publications of the European Community.
- [25] Watson, Gregory, and Pamela J. Smith. 1988. Massachusetts technology transfer initiatives. In *Massachusetts higher education in the eighties: Technology transfer*, 28-44. Boston: Association of Independent Colleges and Universities of Massachusetts.

Policy Research, Monographs and Other Publications:

- [26] Smith, Pamela J. 2015. Post-2015 Consensus: Science and technology perspective. In Post-2015 Consensus summary of academic research. Copenhagen, Denmark: Copenhagen Consensus Center. <http://www.copenhagenconsensus.com/publication/post-2015-consensus-science-and-technology-perspective-smith>. (*Compilation of summaries of academic research including that by Pamela J. Smith.*)
- [27] Lomborg, Bjorn. 2015. The Nobel Laureates' guide to the smartest targets for the world: 2016 -2030. Copenhagen, Denmark: Copenhagen Consensus Center. (*Book based on research work and policy advice of multiple authors including Pamela J. Smith in the area of Science and Technology.*)
- [28] Copenhagen Consensus Center, 2015. Preliminary benefit-cost assessment for final Open Working Group (OWG) goals. <http://www.copenhagenconsensus.com/publication/preliminary-benefit-cost-assessment-final-owg-targets>. (*Pamela J. Smith as contributing policy advisor.*)
- [29] Copenhagen Consensus Center, 2014. Preliminary benefit-cost assessment for 12th session of Open Working Group (OWG) goals. <http://www.copenhagenconsensus.com/publication/preliminary-benefit-cost-assessment-12th-session-owg-goals>. (*Pamela J. Smith as contributing policy advisor.*)

- [30] Smith, Pamela J. 2014. *Benefits and Costs of the Science and Technology Transfer Targets for the Post-2015 Development Agenda: Post-2015 Consensus*. Science and Technology Perspective Paper. Copenhagen, Denmark: Copenhagen Consensus Center.
- [31] Lomborg, Bjorn. 2014. *Prioritizing the World: Cost-Benefit to Identify the Smartest Targets for the Next 15 Years*. Copenhagen, Denmark: Copenhagen Consensus Center. (Pamela J. Smith as contributing author to book by Lomborg.)
- [32] Gold, Richard, Wendy Adams, Louise Bernier, Tania Bubela, Luc Cassivi, David Castle, Ghislaine Cleret de Langavant, L. Martin Cloutier, Abdallah S. Daar, Helene Delerue, Amy Glass, Elisa Henry, Lori Knowles, Jean-Frederic Morin, Tina Piper, and Pamela J. Smith. 2008. *Toward a new era for intellectual property: From confrontation to Negotiation*. McGill Center for Intellectual Property and The Innovation Partnership, Montreal, Quebec, Canada.
- [33] Gold, Richard, Wendy Adams, Louise Bernier, Tania Bubela, Luc Cassivi, David Castle, Ghislaine Cleret de Langavant, L. Martin Cloutier, Abdallah S. Daar, Helene Delerue, Amy Glass, Elisa Henry, Lori Knowles, Jean-Frederic Morin, Tina Piper, and Pamela J. Smith. 2008. *Database on biotechnology, innovation and intellectual property*. McGill Center for Intellectual Property and The Innovation Partnership, Montreal, Quebec, Canada.
- [34] Smith, Pamela J. 2007. The Future of 'Made in China.' *Package Design*, December.
- [35] Smith, Pamela J. 2007. Networking survey: Marketing. *Networking News*, March.
- [36] Smith, Pamela J. 2006. Editors' billing rates: Survey results. *Networking News*, December.
- [37] Gold, Richard E., Wendy Adams, David Castle, Ghislaine Cleret de Langavant, L. Martin Cloutier, Abdallah S. Daar, Amy Glass, Pamela J. Smith, and Louise Bernier. 2004. The Unexamined assumptions of intellectual property: Adopting an evaluative approach to patenting biotechnological innovation. European University Institute, Working Paper 321.02094, Florence, Italy.
- [38] Smith, Pamela J. 1996. Are weak patent rights a barrier to U.S. exports? Department of Economics, University of Delaware, Working Paper 96-13, Newark, Delaware.
- [39] Richardson, J. David, and Pamela J. Smith. 1995. Sectoral growth across U.S. states: Factor content, spillovers, and trade. National Bureau of Economic Research, Working Paper 5094, Washington, D.C.
- [40] Richardson, J. David, and Pamela J. Smith. 1995. Sectoral growth across U.S. states: Factor content, spillovers, and trade. Center for International Economic Studies, University of Adelaide, Working Paper 95-04, Adelaide, Australia.
- [41] Smith, Pamela J. 1994. Estimation of inter-industry and inter-regional knowledge spillovers

using patents data: An endowments approach. Department of Economics, University of Delaware, Working Paper 94-16, Newark, Delaware.

- [42] Smith, Pamela J. 1993. Geographic scale economies in an endowment-based trade model: An empirical analysis of the U.S. states. Department of Economics, University of Delaware, Working Paper 93-16, Newark, Delaware.
- [43] Smith, Pamela J. 1992. Geographic scale economies in an endowment-based trade model: An empirical analysis of the U.S. states. Department of Economics, Concordia University, Discussion Paper 9221, Montreal, Quebec, Canada.

Manuscripts under Review and/or In Progress:

- [44] Smith, Pamela J., and Xiangwen Kong. Intellectual property rights and trade: The Exceptional case of GMOs.
- [45] Smith, Pamela J. International trade, intellectual property rights, and genetically modified organisms: Lessons from a new literature.
- [46] Smith, Pamela J. and Sebastian Anti. Intellectual property rights and economic growth: An application of the synthetic control method.
- [47] Smith, Pamela J., and Jooyoung Yang. What are the effects of intellectual property rights on economics growth? Empirical analysis of East Asia, TRIPs, and development.

PRESENTATIONS

Papers Presented at Conferences, Seminars, Workshops and Symposia:

- Smith, Pamela J. 2014. Technology transfers into developing countries: Perspectives and priorities for the UN's sustainable development goals. Audio webcast presented to Expert Panel of Nobel Laureates, Copenhagen Consensus Center, Copenhagen, Denmark. September 26.
- Smith, Pamela J., Bolormaa Jamiyansuren, Jooyoung Yang, Derya Eryilmaz, Jaeseok Lee, Akinori Kitsuki and Harshada Karnik. 2013. Genetically modified organisms, international trade and policy. Freeman Center for International Economic Policy, Humphrey School of Public Affairs, University of Minnesota, Minneapolis, MN. October. (Presented by Smith.)
- Smith, Pamela J., Bolormaa Jamiyansuren, Jooyoung Yang, Derya Eryilmaz, Jaeseok Lee, Akinori Kitsuki, and Harshada Karnik. 2013. Genetically modified organisms, international trade and policy. Department of Applied Economics, University of Minnesota, Saint Paul, MN. September. (Presented by Smith.)

- Smith, Pamela J. 2013. International trade in agricultural goods. Center for International Business Education and Research, and Institute for Global Studies, Carlson School of Management, University of Minnesota, Minneapolis, MN. August.
- Smith, Pamela J. 2007. Global trade in packaging. Webinar: Designing for sustainable packaging, Package Design Magazine, Minneapolis, MN. December.
- Smith, Pamela J. 2006. International economics of trade. Department of Political Science, Normandale Community College, Bloomington, MN. November.
- Smith, Pamela J. 2004. International trade in (visual) arts: Issues on the academic and policy frontier. Freeman Center for International Economic Policy, Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis, MN. April.
- Gold, Richard E., Wen Adams, David Castle, Ghislaine Cleret de Langavant, L. Martin Cloutier, Abdallah S. Daar, Amy Glass, Pamela J. Smith, and Louise Bernier. 2003. Shifting lenses: Biotechnology innovation and the patent system. European University Institute, Florence, Italy. April. (Presented by co-authors.)
- Smith, Pamela J. 2002. Review of the literature: The International economics of intellectual property rights. Canadian Institutes of Health Research, Minneapolis, MN. August.
- Maskus, Keith E., and Pamela J. Smith. 2001. International economics of intellectual property rights and the biotechnology industry. International Agricultural Trade Research Consortium, Tucson, Arizona. December. (Presented by Maskus.)
- Smith, Pamela J. 2001. Intellectual property policies for biotechnologies. Department of Applied Economics, University of Minnesota, Saint Paul, MN. October.
- Smith, Pamela J. 2000. Technology and trade: Implications of foreign patent rights. Department of Economics, University of Minnesota. Minneapolis, MN. April.
- Smith, Pamela J. 2000. How do foreign patent rights affect U.S. exports, affiliate sales, and licenses? Department of Agricultural and Resource Economics, University of California—Berkeley, Berkeley, CA. March.
- Smith, Pamela J. 1999. Intellectual property rights and trade: Analysis of biological products, medicinals and botanicals, and pharmaceuticals. Annual meetings of the American Agricultural Economics Association, Nashville, TN. August.
- Smith, Pamela J. 1999. Patent rights and bilateral exchange: A cross-country analysis of U.S. exports, affiliate sales, and licenses. Freeman Center for International Economic Policy, Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis, MN. April.
- Smith, Pamela J. 1999. Patent rights and bilateral exchange: A cross-country analysis of U.S. exports, affiliate sales, and licenses. Department of Applied Economics, University of Minnesota, Saint Paul, MN. January.

- Smith, Pamela J. 1999. Patent rights and bilateral exchange: A cross-country analysis of U.S. exports, affiliate sales, and licenses. Annual meetings of the American Economic Association, New York, NY. January.
- Smith, Pamela J. 1998. Patent rights and bilateral exchange: A cross-country study of trade, FDI and licensing. National Bureau of Economic Research, Cambridge, MA. August.
- Smith, Pamela J. 1998. Are weak patent rights a barrier to U.S. exports? Department of Applied Economics, University of Minnesota, Saint Paul, MN. May.
- Smith, Pamela J. 1998. Are weak patent rights a barrier to U.S. exports? Inter-American Development Bank, Washington, D.C. March.
- Smith, Pamela J. 1998. Are weak patent rights a barrier to U.S. exports? U.S. Federal Reserve Bank, Washington, D.C. February.
- Smith, Pamela J. 1998. Are weak patent rights a barrier to U.S. exports? U.S. Federal Reserve Bank of Dallas, Dallas, TX. February.
- Smith, Pamela J. 1997. Do geographic scale economies explain disturbances to Heckscher-Ohlin trade? Department of Economics, University of Miami, Miami, FL. November.
- Smith, Pamela J. 1997. Are weak patent rights a barrier to U.S. exports? Graduate School of International Studies, University of Miami, Miami, FL. March.
- Smith, Pamela J. 1996. Are weak patent rights a barrier to U.S. exports and foreign direct investment? Department of Economics, University of Delaware, Newark, DE. December.
- Richardson, J. David, and Pamela J. Smith. 1996. Sectoral growth across U.S. states: Factor content, spillovers, and trade. Department of Economics, University of Delaware, Newark, DE. April. (Presented by Smith.)
- Smith, Pamela J. 1996. International patent protection and United States exports: Evidence in the data. Department of Economics, University of North Carolina-Greensboro, Greensboro, NC. March.
- Smith, Pamela J. 1996. International patent protection and United States exports: Evidence in the data. Annual meetings of the American Economic Association, San Francisco, CA. January.
- Richardson, J. David, David Greytak and Pamela J. Smith. 1995. Intra-national, inter-regional trade in manufacture: What can we learn from the '51' United States in 1963? Mid-West International Economics Association Meetings, Minneapolis, MN. October. (Presented by Smith.)
- Richardson, J. David, David Greytak and Pamela J. Smith. 1995. Intra-national, inter-regional

trade in manufacture: What can we learn from the '51' United States in 1963? National Bureau of Economic Research, Washington, D.C. May. (Presented by Smith.)

Smith, Pamela J. 1995. International patent protection and U.S. exports: Evidence in the Data. Global Intellectual Property Project, American University, Washington, D.C. April.

Smith, Pamela J. 1995. International patent protection and United States exports: Evidence in the data. Department of Economics, University of Delaware, Newark, DE. April.

Richardson, J. David, David Greytak and Pamela J. Smith. 1994. Intra-national, inter-regional trade data: What can we learn from the United States? National Bureau of Economic Research, Washington, D.C. December. (Presented by Smith.)

Richardson, J. David, and Pamela J. Smith. 1994. Sectoral growth across U.S. states: Factor content, linkages, and trade. Empirical Investigations in International Trade Conference, West Lafayette, Indiana. November.

Richardson, J. David, and Pamela J. Smith. 1994. Sectoral growth across U.S. states: Factor content, linkages, and trade. National Bureau of Economic Research, Cambridge, MA. October. (Presented by Smith.)

Richardson, J. David, and Pamela J. Smith. 1994. Sectoral growth and exports by U.S. states: Early results from augmented factor-content approaches. Mid-West International Economics Association Meetings, Ann Arbor, MI. May.

Smith, Pamela J. 1994. Estimation of inter-industry and inter-regional knowledge spillovers using patents data. Mid-West International Economics Association Meetings, Ann Arbor, MI. May.

Richardson, J. David, and Pamela J. Smith. 1994. Sectoral growth and exports by U.S. states: Early results from augmented factor-content approaches. National Bureau of Economic Research, Cambridge, MA. March.

Smith, Pamela J. 1994. U.S. State comparative advantage: Geographic scale economics and spillovers. National Bureau of Economic Research, Cambridge, MA. March.

Smith, Pamela J. 1993. Geographic scale economies in an endowments-based trade model: An empirical analysis of U.S. states. Department of Economics, University of Delaware, Newark, DE. December.

Smith, Pamela J. 1993. Geographic scale economies in an endowments-based trade model: An empirical analysis of U.S. states. Federal Reserve Bank of St. Louis, St. Louis, Missouri. February.

Smith, Pamela J. 1992. Inter-industry and inter-state spillovers of knowledge: An empirical exploration. Department of Economics, University of Delaware, Newark, DE. March.

Smith, Pamela J. 1992. Explaining U.S. state trade performance in manufacturing goods: An

empirical study. Department of Economics, Vassar College, Poughkeepsie, NY. February.

Smith, Pamela J. 1992. Explaining U.S. state trade performance in manufacturing goods: An empirical study. Department of Economics, Concordia University, Montreal, Quebec, Canada. February.

Smith, Pamela J. 1992. Inter-industry and interstate spillovers of knowledge: An empirical exploration. Department of Economics, State University of New York, Plattsburgh, NY. February.

Smith, Pamela J. 1992. Explaining U.S. state trade performance in manufacturing goods: An empirical study. Federal Reserve Bank of Chicago, Chicago, IL. January.

Smith, Pamela J. 1990. Factor content determinants of U.S. state exports: An empirical exploration. Mid-West International Economics Association Meetings, Champaign-Urbana, IL. November.

Wolfe, Barbara L., and Pamela J. Smith. 1989. Methodological issues in international comparisons of poverty: An analysis of the United States. Commission of the European Communities, Rotterdam, Netherlands. October. (Paper presented by Wolfe.)

Other Invited Presentations:

Smith, Pamela J. 2017. Intellectual property rights, genetically modified organisms, and international technology transfers: Perspectives from international economics. Lecture, Graduate Seminar: M.S. and Ph.D., Department of Applied Economics, University of Minnesota, Saint Paul, MN, November 3.

Smith, Pamela J. 2016. Searching for research gems in international trade. Lecture, Graduate Seminar: M.S. and Ph.D., Department of Applied Economics, University of Minnesota, Saint Paul, MN, December 2.

Smith, Pamela J. 2015. Research topics: The Search for gems. Invited Lecture, Graduate Seminar: M.S. and Ph.D., Department of Applied Economics, University of Minnesota, Saint Paul, MN, December 4.

Smith, Pamela J. 2013. The Job Market Process. Invited Lecture, Graduate Club Seminar Series, Department of Applied Economics, University of Minnesota, Saint Paul, MN. March.

Smith, Pamela J. 2000. The Value of the Euro, Invited Lecture, University of Minnesota Women's Club, Minneapolis, MN. April.

Agricultural Outlook Round Table. Invited Panel, Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis, MN. September 1999.

Empirical Investigations in International Trade Conference, Invited Panel, West Lafayette, IN.

November 1996.

Conference on Representation of Constituent Interests, Invited Participant, University of Michigan, Ann Arbor, MI. November 1996.

Conference on Intellectual Property Rights, Invited Participant, National Bureau of Economic Research Summer Institute, Cambridge, MA. July 1996.

Smith, Pamela J. 1996. Economic Decision Making: Welfare Reform Policy, Invited Instructor, Governor's School for Excellence of the State of Delaware and University of Delaware. Newark, DE. July.

Mid-West International Economics Association Meetings, Invited Panel, Minneapolis, MN. October 1995.

Smith, Pamela J. 1995. Economic Decision Making: Education Policy, Invited Instructor, Governor's School for Excellence of the State of Delaware and University of Delaware, Newark, DE. July.

Smith, Pamela J. 1995. Delaware in the Global Economy: International Trade and Exchange Rates, Invited Instructor, Delaware Center for Economic Education, University of Delaware, Newark, DE. June.

Conference on the International Relations of Intellectual Property, Invited Panel, Global Intellectual Property Project of American University, Washington, D.C. April 1995.

Conference on Intellectual Property Aspects of GATT and the TRIPS Agreement, Invited Participant, Duane, Morris and Heckscher (Law Firm), Philadelphia, PA. March 1995.

Festschrift Conference: Quiet Pioneering, Robert M. Stern and His International Economic Legacy, Invited Participant, Ann Arbor, MI. November 1994.

Conference on the Political Economy of Trade Protection, Invited Participant, National Bureau of Economic Research, Washington, D.C. September 1994.

Smith, Pamela J. 1994. Economic Decision Making: Environmental Policy, Invited Instructor, Governor's School for Excellence of the State of Delaware and University of Delaware, Newark, DE. July.

Smith, Pamela J. 1994. Trade Liberalization and the Economic Implications of NAFTA, Invited Instructor, Delaware Center for Economic Education, University of Delaware, Newark, DE. January.

Conference on New Directions in Trade Theory, Invited Participant, Department of Economics and Institute of Public Policy Studies, University of Michigan, Ann Arbor, Michigan. October 1993.

GRANTS AWARDED

- 2020 Principal Investigator. "Intellectual property rights: Implications for international trade, economic growth and technology transfers," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 07/01/20-6/30/25 (*Awarded*).
- 2020 Principal Investigator. "International trade in biotech crops: Applications of the Synthetic Control Method." College of Food, Agricultural and Natural Resource Sciences, University of Minnesota, Supplemental Funding of Sabbatical, \$26,250. Salary savings to Applied Economics Department. Funding period: 09/01/20-08/31/21 (*Awarded*).
- 2015 Principal Investigator. "International trade and technology policies," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 07/01/15-06/30/20 (*Awarded*).
- 2010 Principal Investigator. "International trade and policy for genetically modified crops," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 10/01/10-09/30/15 (*Awarded*).
- 2008 Principal Investigator. "International trade in GMO crops," College of Food, Agricultural and Natural Resource Sciences, University of Minnesota, Faculty Development Grant, \$4,344. Funding period: 1/10-5/10 (*Awarded*).
- 2005 Principal Investigator. "Intellectual property rights, global trade and economic development," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 10/01/05-09/30/10 (*Awarded*).
- 2004 Principal Investigator. "Intellectual property rights, global trade and economic development." College of Agricultural, Food, and Environmental Sciences, University of Minnesota, Supplemental Funding of Sabbatical, Approx. \$23,000. Salary savings to Applied Economics Department, Approx \$75,000. Funding period: 9/05-8/06 (*Awarded*).
- 2003 Co-applicant. "Modelling agricultural biotechnology intellectual property protection," Social Science and Humanities Research Council of Canada, \$2,989,500 in Canadian dollars. Funding period: 2004-2008. (*Awarded. Grant based at McGill University, Montreal, Quebec, Canada. Funding allocated to the University of Minnesota includes four multi-year research assistantships for Ph.D. students in Applied Economics.*)
- 2002 Principal Investigator. "Intellectual property rights and public health: Analysis of international economic policies," College of Agricultural, Food, and Environmental

- Sciences, University of Minnesota, Faculty Development Grant, \$15,000. Funding period: 9/02-12/02 (*Awarded*).
- 2002 Principal Investigator. "The international economics of intellectual property rights and public health," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 10/01/02-09/30/05 (*Awarded*).
- 2001 Associate. "Reconciling growth and ethics: Models of intellectual property protection," Canadian Institutes of Health Research (CIHR), \$281,802 in Canadian dollars. Funding period: 2002-2005. (*Awarded. Smith as subcontractor. Grant based at McGill University, Montreal, Quebec, Canada.*)
- 1999 Principal Investigator. "International aspects of intellectual property rights in agriculture," Minnesota Agricultural Experiment Station Grant, Support for 50 percent of faculty salary, graduate research assistant position(s), and other direct costs. Funding period: 10/01/99-09/30/02 (*Awarded*).
- 1998 Principal Investigator. "Patent rights in agriculture: Impact on U.S. exports, foreign affiliate sales, and licenses," University of Minnesota, Grant-in-Aid of Research, Artistry, and Scholarship, \$16,408 (with \$15,408 for graduate student support). Funding period: 12/15/98-12/15/99 (*Awarded*).
- 1994 Principal Investigator. "The contribution of patent accumulation to economic growth," University of Delaware, General University Research Program (GUR), \$6,000 (with \$1,000 for graduate student support). Funding period: Summer 1994 (*Awarded*).
- 1993 Principal Investigator. "Estimation of inter-industry and inter-regional knowledge spillovers using patents data," University of Delaware, Commission on the Status of Women, \$850 (travel grant for presentation of research). Funding period: 07/93-06/94 (*Awarded*).

TEACHING

Teaching Materials Published:

- Smith, Pamela J. 2015. Instructor's lecture notes for Global trade policy: Questions and answers. John Wiley & Sons, Inc. <http://www.wiley.com/go/globaltradepolicy>.
- Smith, Pamela J. 2014. *Global trade policy: Questions and answers*. Chichester, West Sussex, United Kingdom: Wiley-Blackwell.
- Smith, Pamela J. 2014. Instructor companion site for Global trade policy: Questions and answers. <http://www.wiley.com/go/globaltradepolicy>.

University Courses Taught:

University of Minnesota Courses, 1998-Present

APEC3006, Applied Macroeconomics: Government and the Economy
APEC3007, Applied Macroeconomics: Policy, Trade and Development
APEC3480, Writing About Global Trade and Policy
APEC3999, Writing About Global Trade and Policy (Independent Study)
APEC5721, Economics of Science and Technology Policy
APEC5750, Agricultural Trade and Commercial Policy
APEC5751, Global Trade and Policy
APEC8200, Advanced Topics
APEC8701, Trade and Development 1
APEC8702, Economic and Trade Policy: Sectoral and Institutional Issues
APEC8901, Graduate Seminar: M.S. and Ph.D.
APEC8902-001, Graduate Seminar: Ph.D. Program
APEC8902-002, Graduate Seminar: M.S. Program
Job Placement Workshop, Ph.D. Program

University of Delaware Courses, 1993-1998

ECON151, Introduction to Microeconomics
ECON151H, Introduction to Microeconomics, Honors
ECON340, International Economic Relations
ECON340H, International Economic Relations, Honors
ECON841, International Trade and Development

Concordia University Courses, 1992-1993

ECON203, Introduction to Macroeconomics
ECON341, International Economic Relations
ECON442, International Economics: Trade Theory
ECON501, Advanced Microeconomic Theory

Non-Traditional Courses Taught:

Bangladesh Training Program, 1999-2000. *Course on International Trade and Spatial Characteristics of Prices.* Sponsored by Bangladesh Training Program, International Food Policy Research Institute, Minneapolis, MN, September 1999 and 2000. (This course was designed for government officials from Ministries of Agriculture in Bangladesh.)

Olsztyn University in Poland, 1999. *Course on Economic Policy, International Economics and Trade.* Sponsored by Executive Masters in Rural and Industries Management Program, Olsztyn University of Agriculture and Technology, Olsztyn, Poland, June 1999. (This 20 hour course was designed for business executives and government officials from Ministries of Agriculture in Poland, enrolled in the Executive Master's Program. Taught in English with Polish Translator.)

Governor's School of Excellence, State of Delaware, 1994-1996. Courses on Welfare Reform Policy; Education Policy; and Environmental Policy. Sponsored by The Governor's School of Excellence of the State of Delaware in collaboration with the University of Delaware, Newark, Delaware, June 1994, 1995 and 1996. (This program was designed to support the educational advancement of exceptional high school students in the state of Delaware.)

Delaware Center for Economic Education, University of Delaware, 1994-1995. Courses on the Global Economy: International Trade and Exchange Rates; and Trade Liberalization and Economic Implications of NAFTA. Sponsored by the Delaware Center for Economic Education, University of Delaware, Newark, DE, January 1994 and June 1995. (This program was designed as masters-level retraining for high school economics teachers in the state of Delaware.)

New Course Development:

Writing About Global Trade and Policy, 2016. Developed course on writing about Global Trade and Policy for the Writing Enriched Curriculum (WEC) program at the University of Minnesota, Twin Cities, MN, 2016. (This program was designed to offer undergraduate departments a method for supporting curricular infusion of discipline-relevant writing and writing instruction.)

Job Placement Workshop, 2011-2015. Developed Job Placement Workshop for Department of Applied Economics, University of Minnesota, Twin Cities, MN, 2011-2015. (This workshop was designed to prepare Ph.D. students for participation in the job market at the American Economic Association (AEA) meeting, and successful job placement in academia, industry and government.)

ADVISING ACTIVITIES

Supervision of Ph.D. Dissertations (as Primary Advisor):

Kong, Xiangwen., Ph.D., 2021 (expected). Department of Applied Economics, University of Minnesota.

Anti, Sebastian. Ph.D., 2020 (completed). "Three essays in development economics and policy." Department of Applied Economics, University of Minnesota. (Primary co-advisor with Marc Bellemare.)

Jooyoung Yang, Ph.D., 2016 (completed). "Essays on the effects of intellectual property rights on economic growth and production fragmentation, and the effects of unions on workplace safety." Department of Applied Economics, University of Minnesota.

Omar Da'ar, Ph.D., 2011 (completed). "Trade in GMO-Sensitive Industries: Cross Country Analysis." Department of Applied Economics, University of Minnesota.

Fabricio Nunez, Ph.D., 2009 (completed). "Intellectual property, market structure, and innovation in therapeutic biotechnology," Department of Applied Economics, University of Minnesota.

Supervision of M.S./M.A. Theses (as Primary Advisor):

Renold Abdi, M.S., 2018 (transferred to another faculty midstream and completed).
Department of Applied Economics, University of Minnesota.

Brian Lindgren, M.S., 2014 (completed). "International trade and consumer product safety regulations." Department of Applied Economics, University of Minnesota.

Nicholas Stang, M.S., 2014 (completed). "The twenty billion dollar bet: An analysis of how the HITECH ACT changed the patterns of electronic health record adoption." Department of Applied Economics, University of Minnesota.

Kevin Monroe, M.S., 2012 (completed). "Decomposition of information and communication technology for development: A Case for investment in and trade of intellectual property." Department of Applied Economics, University of Minnesota.

Lena Zakharova, M.S., 2008 (completed). "Do differences in environmental policies influence packaging and waste trade flows between China and the rest of the world?"
Department of Applied Economic, University of Minnesota.

Xujia Wang, M.S., 2000 (completed). "Biotechnologies, trade, and intellectual property rights,"
Department of Applied Economics, University of Minnesota.

Kate Livingston, M.A., 1998 (completed). "Intellectual property rights and foreign direct investment," Department of Economics, University of Delaware.

Carlos Latorre, M.A., 1998 (completed). "Intellectual property rights and their impact on foreign direct investment," Department of Economics, University of Delaware.

Sophie Coquaz, M.A., 1996 (completed). "The determinants of United States foreign direct investment," Department of Economics, University of Delaware.

Khalid Bekka, M.A., 1995 (completed). "R & D expenditures as a determinant of the pattern of trade between the United States and Japan," Department of Economics, University of Delaware.

Christopher Marshall, M.A., 1995 (completed). "International trade and intellectual property protection: An empirical study of U.S. states' exports," Department of Economics, University of Delaware.

Cord Hinrichs, M.A., 1995 (completed). "The factor-price equalization theorem: An empirical test across 12 OECD countries," Department of Economics, University of Delaware.

Wan Chun Chang, M.A., 1994 (completed). "Analysis of Okun's Law for the G7 countries,"
Department of Economics, University of Delaware.

Committee Member for Ph.D. Dissertations and M.S./M.A. Theses and Honors Theses:

Kimberely Colgan, Ph.D. (Bioproducts and Biosystems Science, Policy, and Management),
2021 (expected)
Orges Ormmanidhi, Ph.D. (Applied Economics), 2020 (expected)
Augustine Mok, Ph.D. (Applied Economics), 2020.
Will Macheel, B.S. (Applied Economics, Honors, Summa Cum Laude), 2020.
Marchio, Nicholas, M.S. (Applied Economics), 2015.
Seung Ha Jin, M.A. (Applied Economics), 2013.
Victor Gauto, Ph.D. (Applied Economics), 2012.
Kemp, Peter, J.D. (Law School), 2012.
Islan Mazhar, Ph.D. (Carlson School of Management), 2011.
Julio Barragan, Ph.D. (Applied Economics), 2007.
Jyoti Vig, M.A. (Economics), 2007.
Meriem Chida, M.A. (Applied Economics), 2005.
Alexander Amati, Ph.D. (Applied Economics), 2005.
Soma Dey, Ph.D. (Economics), 2005.
Lynn Litterer, Ph.D. (Agronomy and Plant Genetics), 2005.
Pei-chien Lin, Ph.D. (Applied Economics), 2000.
Martin Rohler, M.S. (Humboldt University of Berlin, Germany), 1999.
Neil Young, M.A. (Humphrey Institute of Public Affairs), 1999.
Donnie Hughes, Ph.D. (Political Science and International Relations), 1998.

OTHER HONORS / AWARDS

Selected by National Science Foundation and American Economic Association, Inaugural CWEP
Mentorship Program, Chicago, IL. January 1998.

Research Assistantship (with Robert Baldwin), Department of Economics, University of
Wisconsin, Madison, Wisconsin, 1992.

Research Assistantship (with David Richardson), Department of Economics, University of
Wisconsin, Madison, Wisconsin, 1991.

Research Assistantship (with Barbara Wolfe), Department of Economics, University of
Wisconsin, Madison, Wisconsin, 1990.

Outstanding Teaching Award, for teaching assistantship in Macroeconomics, Department of
Economics, University of Wisconsin, Madison, WI. 1990.

Teaching Assistantships, Department of Economics, University of Wisconsin, Madison,
Wisconsin, 1990.

Outstanding Teaching Award, for teaching assistantship in Microeconomics, Department of Economics, University of Wisconsin, Madison, WI. 1989.

Teaching Assistantships, Department of Economics, University of Wisconsin, Madison, Wisconsin, 1989.

Bullis scholarship award for graduate studies, Department of Economics, University of Wisconsin, Madison, WI. 1989.

Research Assistant (with Lester Gordon), Harvard Institute for International Development, Harvard University, Cambridge, Massachusetts, 1987.

Scholarship award for graduate studies, Graduate School of Arts and Sciences, Tufts University, Medford, MA. 1985-1986.

Honor Society, University of Vermont, Burlington, VT. 1980-1982.

DEPARTMENT, COLLEGE, UNIVERSITY SERVICE

University of Minnesota

College

Member, Honors Faculty Committee, 2004-2005

Department

Director, Job Placement Workshop, 2011-2016

Chair, Prelim Exam Committee, Trade and Dev., 2011-2013, 2014

Chair, Communications Committee, 2016-2017

Co-Chair, Library Committee, 2004-2005

Member, Awards Committee, 1998-1999, 2015-2016, 2017-2019

Member, Computer Services Committee, 2007-2012

Member, Development Committee, 2012-2014

Member, Faculty Search Committee, 2000-2001, 2015

Member, Graduate Committee, 1998-2000, 2003-2005, 2017-2018, 2019-20

Member, Library Committee, 2002-2007

Member, Promotion and Tenure Committee, 2000-2001

Member, Prelim Exam Committee, Economics Minor, 2000-2002

Member, Prelim Exam Committee, Trade and Development, 1999-Present

Member, Priorities Committee, 1999-2000, 2001-2002, 2013-2015, 2016-2018

Member, Publications/Web Policy Committee, 2006-2012

Member, Undergraduate Committee, 2014-2016

University of Delaware

College

Member, Convocation Committee, 1995-96

Member, Dean Recruitment Committee, 1996
Member, Dean Review Committee, 1995

Department

Member, Ad hoc Teaching Evaluation Committee, 1995
Member, Curriculum Committee, 1993-94
Member, Graduate Committee, 1996-98
Member, Honors Committee, 1993-94
Member, Seminar Committee, 1994-96

PROFESSIONAL ASSOCIATION SERVICE

Reviewer for National and International Grants

Minnesota Agricultural Experiment Station, Reviewer for Grant Awards
National Science Foundation, Economics Program, Reviewer for Grant Awards
Social Sciences and Humanities Research Council of Canada, Insight Grants
U.S. Agricultural Experiment Station, Reviewer for Grant Awards

Reviewer for Annual Conferences and Other Awards

American Agricultural Economic Association, Reviewer for Masters Competition
American Agricultural Economics Association, Reviewer for Selected Papers

SERVICE ON ADVISORY BOARDS AND PANELS

Select Advisory Boards and Panels

Academic Expert/Policy Advisor, Science and Technology Policy, and International Trade Policy, Copenhagen Consensus Center, Copenhagen, Denmark. (2014–2015, and 2019)
Foreign Expert, Institute of Development Studies, The University of Agriculture, Peshawar, Pakistan. (2017-Present)
Founding Member, McGill Centre for Intellectual Property Policy, Montreal, Quebec, Canada. (2003–Present)

Community Advisory Boards and Panels

Doscent/Instructor, Art Adventure, Co-sponsored by the Minneapolis Institute of Art and the Saint Paul Public Schools, Program introduces K-6 students with works of art from cultures around the world, Minneapolis, MN. 2012-2013.
Artist/Community Facilitator, Paint the Pavement Project, Friend School of Minnesota and City of Saint Paul, Saint Paul, MN. 2008-2009.
Artist/Ad Designer, Friends School Plant Sale, Friends School of Minnesota, Saint, Paul, MN. 2008-2009.
Mentor, Welfare-to-Work Program, Lifetrack Resources, Inc., Saint Paul, MN. 2000-2004.
Committee Member, Project Research Program, Junior League, Saint Paul, MN. 2003-2004.

Committee Chair, Welfare-to-Work Program, Junior League, Saint Paul, MN. 2002-2003.
Committee Co-chair, Welfare-to-Work Program, Junior League, Saint Paul, MN. 2001-2002.
Committee Member, Peaceful Parenting Program, Junior League, Saint Paul, MN. 2000-2001.
Committee Co-chair, Food Shelves Program, Junior League, Saint Paul, MN. 1999-2000.
Intern, Office of Probation and Parole, Department of Corrections, State of Vermont, Burlington, VT. 1981.

EDITORIAL AND REVIEW ACTIVITY FOR SCHOLARLY JOURNALS

Agribusiness: An International Journal
American Economic Review
American Journal of Agricultural Economics
European Economics Review
International Journal of Business Economics
Journal of International Economics
Journal of Urban Economics
Review of International Economics
Southern Economic Journal
World Development

EDITORIAL AND REVIEW ACTIVITIES FOR ACADEMIC BOOKS

Elsevier
John Wiley & Sons

AVAILABLE UPON REQUEST:

Recommendations and Teaching Evaluations.

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