

KENNETH L. SIMONS

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Employment

Assistant Professor, Department of Economics, Rensselaer Polytechnic Institute, 2003-
Senior Lecturer (equivalent to US Associate Professor; tenured), Department of
Economics, Royal Holloway, University of London, 2001-2003.
Lecturer (equivalent to US Assistant Professor), Department of Economics, Royal
Holloway, University of London, 1995-2000.

Qualifications

Ph.D., Dept. of Social & Decision Sciences, Carnegie Mellon University, 1995.
Dissertation: "Shakeouts: Firm Survival and Technological Change in New Manufacturing Industries."
Chair: Steven Klepper.
M.Sc., Industrial Organization Economics, Carnegie Mellon University, 1993.
B.S., Planning, Massachusetts Institute of Technology, 1990.

Grants

"Smart Lighting Engineering Research Center," National Science Foundation, 2008-
2013. US \$18.5 million. K.L. Simons is one of 34 faculty associated with the Center,
and is receiving research support as one of its Investigators.
"Solid State Lighting Global Technology Analysis," U.S. Department of Energy, 2008-
2009 (with Susan Sanderson). US \$57,512.
"Analyzing Entrepreneurship in Information Technology Consultancies," 2008-2009,
RPI Office of Entrepreneurship. US \$2400.
"Technology and Industry Dynamics: Educational Tools on Technology
Entrepreneurship," RPI Office of Entrepreneurship Curriculum Development Support
Grant, 2008-2009. US \$7159.
Ewing Marion Kauffman Foundation, Grant to study "The Frequency and Nature of
Technological Disruptions," 2007 (grant period Jan. 1, 2008 through July 30, 2010).
US \$49,063.
National Academies, Board on Science Technology and Economic Policy, Project on the
Globalization of Innovation: Implications for the Competitiveness and Workforce
Needs of US Industry, 2007 (with Susan Sanderson). US \$5000.
Faculty Mobile Computing grant, RPI, 2005. US \$2000.
Royal Economic Society grant, 2002. £600.

ESRC grant for the Network of Industrial Economists, R451265069, 2001. £12,354.92.
United Nations (WIDER Institute) commission to research firm and industrial structure in information technology industries, 2000. US \$5000.
Royal Holloway College Research Strategy Fund grant for research on industry competitive dynamics, 1997. £2000 + £2500 matched grant.
Research grant for sustainable development modeling through a Japan Environment Agency project, 1991. US \$2000.
Research grants from MIT's School of Engineering; Departments of Urban Studies and Planning, Civil Engineering, and Political Science; Center for Global Change Studies; and Undergraduate Research Opportunities Program, 1989-1990. US \$7500.
Undergraduate research grant, TRW Corporation, 1988. US \$3000.
(Runner-up, Leverhulme Foundation, 1997, £1,037,121 grant.)

Professional Activities

National Academy of Sciences, participant in project on Competitiveness and Workforce Needs of United States Industry, 2006 (evaluation of technological competitiveness of US industries and the international location of R&D).
Council on Competitiveness, National Innovation Initiative working group member, 2004 (on-site participant in Atlanta meetings, February 26-27, 2004; New York City working group meeting April 28, 2004; Rensselaer meetings September 7-8, 2004).
Alfred P. Sloan Industry Studies Program Affiliate, 2003-.
Chairman, Network of Industrial Economists – April 2001 to July 2003. The Network organizes 2-4 conferences annually, and is the UK's leading organization for industrial economists.

Conferences organized:

- Finance-Industry-Government Forum, Royal Holloway central London site, Autumn 2000 (periodic sessions)
- Network of Industrial Economists Annual (main) Conference, Royal Holloway, 4-5 April 2001
- Multinational Firms and FDI, NIE Conference, Birmingham University, 14 December 2001 (local organizer Nigel Driffield)
- Network of Industrial Economists Annual (main) Conference, Royal Holloway, 5-6 April 2002
- Competition Policy and Regulation, NIE Conference, University of East Anglia, 16 December 2002 (local organizers Morten Hviid and Catherine Waddams)
- Challenges of Asian Technological Development, NIE Conference, LSE, 31 May 2003 (organized with Sumit Majumdar and Gautam Sen)

Associate Editor, International Journal of Industrial Organization (2004-2008).

Editorial Board Member, International Journal of Technology Marketing (2004-).

Refereeing: American Economic Review, Economic and Social Research Council, Economic Modelling, European Economic Review, Industrial and Corporate Change, International Economic Review, International Journal of Industrial Organization, International Journal of the Economics of Business, International Journal of Technology Marketing, Israel Science Foundation, Journal of Business Strategies, Journal of Business Venturing, Journal of Economic Behavior and Organization,

Journal of Economics and Management Strategy, Journal of Evolutionary Economics, Journal of Industrial Economics, Journal of Management Studies, Journal of Political Economy, Journal of Productivity Analysis, Management Science, Organization Science, Research Policy, Review of Industrial Organization, Small Business Economics, Smithsonian Institution, Strategic Management Journal, System Dynamics Review, Technovation, U.S. National Science Foundation.

Journal Articles

- “Assessing the Effects of Mergers and Acquisitions on Firm Performance, Plant Productivity, and Workers: New Evidence from Matched Employer-Employee Data,” with Donald S. Siegel. *Strategic Management Journal*, forthcoming.
- “Assessing the Effects of Ownership Change on Women and Minority Employees: Evidence from Matched Employer-Employee Data,” *International Journal of the Economics of Business*, vol. 14 no. 2, July 2007, pp. 161-178, with John Marsh and Donald S. Siegel.
- “Shakeouts, Innovation, and Industrial Strategy and Policy,” *Australian Economic Review*, vol. 40 no. 1, March 2007, pp. 106-112.
- “Political Instability and Growth in Dictatorships,” *Public Choice*, vol. 125 no. 3-4, December 2005, pp. 445-470, with Jody Overland and Michael Spagat.
- “Industry Shakeouts and Technological Change,” *International Journal of Industrial Organization*, vol. 23 no. 1-2, February 2005, pp. 23-43, with Steven Klepper.
- “Salaries and Career Opportunities in the Banking Industry: Evidence from the Personnel Records of the Union Bank of Australia,” *Explorations in Economic History*, vol. 38 no. 2, April 2001, pp. 195-224, with Andrew Seltzer (lead article).
- “The Making of an Oligopoly: Firm Survival and Technological Change in the Evolution of the U.S. Tire Industry,” *Journal of Political Economy*, vol. 108 no. 4, August 2000, pp. 728-760, with Steven Klepper.
- “Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry,” *Strategic Management Journal*, vol. 21 no. 10-11, October-November 2000, pp. 997-1016, with Steven Klepper.
- “Technological Extinctions of Industrial Firms: An Inquiry into their Nature and Causes,” *Industrial and Corporate Change*, vol. 6 no. 2, March 1997, pp. 379-460, with Steven Klepper.
- “Innovation and Industry Shakeouts,” *Business and Economic History*, vol. 25 no. 1, Fall 1996, pp. 81-89, with Steven Klepper.
- “New Technologies in Simulation Games,” *System Dynamics Review*, vol. 9 no. 2, Summer 1993, pp. 135-152.

Book Chapters (including Published Conference Volumes)

- “The U.S. National Innovation System.” In V.K. Narayanan and Gina Colarelli O’Connor (eds.), *Encyclopedia of Technology and Innovation*, Wiley-Blackwell, forthcoming, with Judith Walls.
- “Ownership Change, Productivity, and Human Capital: New Evidence from Matched Employer-Employee Data in Swedish Manufacturing,” in Timothy Dunne, J.

- Bradford Jensen, and Mark J. Roberts (eds.), *Producer Dynamics: New Evidence from Micro Data*, University of Chicago Press for the National Bureau of Economic Research, 2009, pp. 397-442, with Donald S. Siegel and Tomas Lindstrom.
- “Lighting Industry,” in *Innovation in Global Industries - U.S. Firms Competing in a New World*, National Academies Press, 2008, pp. 163-205, with Susan Walsh Sanderson, Judith Walls, and Yin-Yi Lai. This volume is a focus report of the National Academies.
- “Predictable Cross-Industry Heterogeneity in Industry Dynamics,” in Albert N. Link and F. M. Scherer, eds., *Essays in Honor of Edwin Mansfield: The Economics of R&D, Innovation and Technological Change*, Springer, 2005, pp. 275-279.
- Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry” (reprint of journal article), in Constance E. Helfat, ed., *The SMS Blackwell Handbook of Capability Management: Emergence, Development and Change*, Blackwell, 2003, with Steven Klepper, pp. 15-42.
- “Industry Life Cycles and Their Causes (Synopsis),” *Academy of Management Proceedings*, 2003, pp. BPS I1-I6.
- “IT and Competition (Synopsis),” *Academy of Management Proceedings*, 2003, pp. TIM E1-E6.
- “Technological Extinctions of Industrial Firms: An Enquiry into their Nature and Causes” (reprint of journal article), in David B. Audretsch and Steven Klepper, eds., *Innovation, Evolution of Industry and Economic Growth*, Edward Elgar, 2000, pp. 61-142, with Steven Klepper.
- “International Dynamics of Product Market Competition,” in Tarek Khalil, Hussein El-Gammal, Louis A. Lefebvre, Yasser Hosni, and Hassan El-Laithy, eds., *Civilization, Modern Technology and Sustainable Development*, International Association for Management of Technology, 1999, pp. 787-796.
- “Technology Requirements for Population and Economic Growth,” in Tarek Khalil, Hussein El-Gammal, Louis A. Lefebvre, Yasser Hosni, and Hassan El-Laithy, eds., *Civilization, Modern Technology and Sustainable Development*, International Association for Management of Technology, 1999, pp. 797-803.
- “New Technologies in Simulation Games,” in David F. Anderson, George P. Richardson, and John D. Sterman, eds., *System Dynamics '90*, System Dynamics Society, 1990, pp. 1047-1059.
- “Software to Communicate Global Models,” in David Crookall and Kiyoshi Arai, eds., *Global Interdependence*, Springer-Verlag, 1992, pp. 57-65, with Peter J. Poole.

Manuscripts Under Submission or Alteration

- “Two Roads to Riches? The (In)Frequency of Disruptive Technological Change.”
- “Product Market Characteristics and the Industry Life Cycle.”
- “On the Theory of Product Market Characteristics and the Industry Life Cycle.”
- “Assessing the Effects of Mergers and Acquisitions on Firm Performance, Plant Productivity, and Workers: New Evidence from Matched Employer-Employee Data,” with Donald S. Siegel.

- “Evaluating the Effects of Mergers and Acquisitions on Employees: Evidence from Matched Employer-Employee Data,” with Donald Siegel.
- “Entrepreneurs Seeking Gains: Rational Motives in the Commercialization Decisions of Inventors,” with Thomas Åstebro.
- “Information Technology and Dynamics of Industry Structure: The UK IT Consulting Industry as a Contemporary Specimen.”
- “Bodyshopping versus Offshoring: Outsourcing Strategy in India’s Software and Information Technology Industry,” with Sumit K. Majumdar and Ashok K. Nag.
- “Pricing Strategies in Residential Telephony,” with Sumit Majumdar.
- “Thoughts on the U.S. National Innovation System: Potential Insights for Russia.”
- “Technology Benchmarks for Sustained Economic Growth.”
- “Technology Requirements for Population and Economic Growth.”
- “Should Environmental Regulators Be Allowed to Tailor Standards?,” with Anthony G. Heyes.

Other Unpublished Working Papers

- “Innovation and Industry Shakeouts—Long Version,” with Steven Klepper, 1996.
- “SIMGAME User Manual,” “SIMGAME Development Manual,” and “SIMGAME Code,” System Dynamics Group, MIT Sloan School of Management, working papers D-4115, D-4116, and D-4117, 1989.

Other Publications

- “Making Global Models Accessible: The Earth Systems Project,” *The Earth Simulation Newsletter*, vol. 1 no. 1 (Spring), 1994, pp. 3-5.

Computer Software

- Stata routines: rcheck - check sensitivity to alternative model specifications; dfbeta3 - compute DFBETAs even after regress with robust/clustered SEs; dummychk - check dummy (indicator) variables to ensure they are okay; globdist - distance between latitude & longitude coordinates; circnum - count data points in a geographic radius of each point; exlocs - create data points for extra geographic locations; strlist - list in compact form; sthaz - smoothed hazard (transition/failure) rate plots; hazplot - smoothed hazard (transition/failure) rate plots, alternative; reencode - encode/decode and replace variable(s); hammersley - Hammersley sequences for non-random high-efficiency sampling (to access these routine use Stata Help --> Search... and search net resources).
- “Longitudinal Industry Data Analyzer,” software to analyze longitudinal data on populations of industrial firms, available on request, 1994.
- “Beyond the Limits,” including documentation, educational materials, and critical commentary, Laboratory for Interactive Learning, Hood House, University of New Hampshire, Durham, NH 03824, or internet <http://www.sun.rhbnc.ac.uk/~uhss021>, with assistance from Jennifer Newbury and Aaron Young, 1997 (1992).

“The Gaia Hypothesis and Daisyworld,” internet <http://www.sun.rhbnc.ac.uk/~uhss021>, with assistance from Michelle Bell, Peter J. Poole, Kevin Rathbun, Erik Trimble, and Aaron Young, 1993 (1990).

“B & B Enterprises,” available from John D. Sterman, Sloan School of Management, MIT E52-562, Cambridge, MA 02139, with Erik Beinhocker, Mark Paich, and John D. Sterman, 1991.

Invited Conference Presentations

“Disruptive Technological Change: Frequency and Processes,” Industry Studies Conference, Chicago, 29 May 2009.

“Entrepreneurial Entry and Information Technology Shocks: The Unvarying Experience of IT Consultancies,” International Industrial Organization Conference, Boston, 4 April 2009.

“Solid State Lighting Technology Development and Commercialization in the Global Context,” 2009 DOE Solid-State Lighting Workshop, San Francisco, 3 February 2009 (plenary address to 400-person audience).

“The U.S. National Innovation System: Ideas for Russia,” International Conference on Innovative Development: World Experience and Russia’s Strategy, Moscow, Russia, 24 October 2008.

“Evaluating the Effects of Mergers and Acquisitions on Employees: Evidence from Matched Employer-Employee Data,” Conference on Financial Intermediaries Markets at the Cross-roads: Economics and Legal Perspectives on Financial Stability, Liquidity and Corporate Control, Amsterdam, Netherlands, 27 September 2008.

“Two Roads to Riches? The (In)Frequency of Disruptive Technological Change,” International Industrial Organization Conference, Washington, D.C., 18 May 2008.

“Bodyshopping versus Offshoring: Determinants of Outsourcing Behavior by Indian Software and Information Technology Firms,” International Industrial Organization Conference, Washington, D.C., 17 May 2008.

“Solid State Lighting,” Alfred P. Sloan Foundation Industry Studies Conference, Boston, 2 May 2008.

“Entrepreneurs Seeking Gains: Profit Motives and Risk Aversion in Inventors’ Commercialization Decisions,” Seventh Annual Roundtable on Engineering Entrepreneurship Research, Atlanta, 10 November 2007.

“Two Roads to Riches? The (In)Frequency of Disruptive Technological Change,” WUN Entrepreneurship and Global Impact Conference, Chicago, 6 October 2007.

“Two Roads to Riches? The (In)Frequency of Disruptive Technological Change,” Atlanta Competitive Advantage Conference, Atlanta, 16 June 2007.

“Data Compilation and Display,” FIVE Project Conference on Firm and Industry Evolution and Entrepreneurship, Hanover, NH, 12 May 2007.

“Innovation Challenges in the Lighting Industry,” Alfred P. Sloan Foundation Industry Studies Conference, Boston, 26 April 2007.

“Ownership Change, Productivity, and Human Capital: New Evidence from Matched Employer-Employee Data in Swedish Manufacturing,” International Industrial Organization Conference, Savannah, Georgia, 14 April 2007.

“The Transition to Solid State Lighting: Policy Implications,” The National Academies Board on Science, Technology, and Economic Policy Symposium on Globalization of

- Innovation: Industry Trends and Professional Workforce Implications, Washington D.C., 21 April 2006.
- “On the Theory of Product Market Characteristics and the Industry Life Cycle,” International Industrial Organization Conference, Boston, 9 April 2006.
- “Entrepreneurs Seeking Gains: Rational Motives in the Commercialization Decisions of Inventors,” International Industrial Organization Conference, Boston, 8 April 2006.
- “Technology Benchmarks for Sustained Economic Growth,” Technological Change and the Environment Workshop, Dartmouth College, Hanover, N.H., 25 March 2006.
- “Assessing the Effects of Ownership Change on Careers: New Evidence from Matched Employer-Employee Data,” Wharton Conference on Careers and Career Transitions: New Evidence for a New Economy, Philadelphia, 25 June 2005.
- “Ownership Change, Productivity, and Human Capital: New Evidence from Matched Employer-Employee Data in Swedish Manufacturing,” NBER-CRIW Conference on Producer Dynamics, Washington, D.C., 9 April 2005.
- “Ownership Change, Productivity, R&D and Human Capital: New Evidence from Matched Employer-Employee Data in Swedish Manufacturing,” NBER-CRIW Pre-Conference on Producer Dynamics, Boston, 23 July 2004.
- “Industry Dynamics and Competition and Industrial Policy,” Economics Network for Competition and Regulation Annual Conference, Amsterdam, 15 April 2004.
- “Product Market Characteristics and the Industry Life Cycle,” MIT-University at Albany System Dynamics PhD Colloquium, Albany, 3 October 2003 (faculty keynote).
- “Industry Life Cycles and their Causes,” Academy of Management meetings, Seattle, 1-6 August 2003 (honored as a best paper, nominated for Carolyn Dexter award).
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” Academy of Management meetings, Seattle, 1-6 August 2003 (honored as a best paper).
- “Product Market Characteristics and the Industry Life Cycle,” International Industrial Organization Conference, Boston, 2003.
- “Product Market Characteristics and the Industry Life Cycle,” American Economic Association conference, Washington, D.C., 2003.
- “Product Market Characteristics and the Industry Life Cycle,” International Workshop on the Post-Entry Performance of Firms, Bologna, Italy, 2002.
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” DRUID Conference, Copenhagen, 2002.
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” CEPR Conference in Industrial Organization, Bergen, Norway, 2002.
- “Pricing in UK Residential Telephony,” Network of Industry Economists Annual Meeting, London, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” International Schumpeter Society Conference, Gainesville, Florida, 2002.
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” International Schumpeter Society Conference, Gainesville, Florida, 2002.

- “Product Market Characteristics and the Industry Life Cycle,” CEPR Workshop on Entry/Exit and Market Structure, London, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” European Association for Research in Industrial Economics Conference, Dublin, Ireland, 2001.
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” Network of Industry Economists Annual Meeting, London, 2001.
- “Information Technology and the Dynamics of Firm and Industrial Structure: The British IT Consulting Industry as a Contemporary Specimen,” The New Economy in a Global Perspective Project Meeting, United Nations University, Helsinki, 2001.
- “Product Market Characteristics and the Industry Life Cycle,” Network of Industrial Economists meeting on Industry Dynamics, Reading, England, 2000.
- “Industry Shakeouts and Technological Change,” European Association for Research in Industrial Economics Conference, Lausanne, Switzerland, 2000.
- “Technology Benchmarks for Sustained Economic Growth,” International System Dynamics Conference, Bergen, Norway, 2000 (peer-reviewed plenary).
- “Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry,” International Schumpeter Society Conference, Manchester, England, 2000.
- “Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry,” Network of Industry Economists Annual Meeting, Cambridge, England, 2000.
- “Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry,” European Association for Research in Industrial Economics Conference, Torino, Italy, 1999.
- “Industry Shakeouts and Technological Change,” Portland International Conference on Management of Engineering and Technology, Portland Oregon, 1999.
- “Technology Requirements for Population and Economic Growth,” Portland International Conference on Management of Engineering and Technology, Portland Oregon, 1999.
- “Industry Shakeouts and Technological Change,” European Meeting on Applied Evolutionary Economics, Grenoble, France, 1999.
- “Industry Shakeouts and Technological Change,” Network of Industry Economists Annual Meeting, Oxford, 1999.
- “International Dynamics of Product Market Competition,” International Association for Management of Technology, Cairo, 1999.
- “Technology Requirements for Population and Economic Growth,” International Association for Management of Technology, Cairo, 1999.
- “The Making of an Oligopoly: Firm Survival and Technological Change in the Evolution of the U.S. Tire Industry,” Wissenschaftszentrum Berlin Conference on Empirical Issues in Industrial Organization, Berlin, 1997.
- “The Making of an Oligopoly: Firm Survival and Technological Change in the Evolution of the U.S. Tire Industry,” European Association for Research in Industrial Economics Conference, Leuven, Belgium, 1997.

- “Technological Extinctions of Industrial Firms: An Enquiry into their Nature and Causes,” International Association for Management of Technology, Götteborg, Sweden, 1997.
- “Technological Extinctions of Industrial Firms: An Enquiry into their Nature and Causes,” European Association for Research in Industrial Economics Conference, Vienna, 1996.
- “Innovation and Industry Shakeouts,” Business History Conference, Columbus, Ohio, 1996.
- “Research on Industry Shakeouts,” CCC Doctoral Colloquium on R&D, Technological Change, Organization Structure, and Market Evolution, Pittsburgh, 1994.
- “Technological Change and Industry Shakeouts,” Allied Social Science Associations Conference, Boston, 1994.
- “Software to Communicate Simulation Models,” Society for Computer Simulation Summer Simulation Conference, Boston, 1993.
- “Software to Communicate Global Models,” International Simulation and Gaming Association Conference, Kyoto, Japan, 1991, with Peter J. Poole.
- “New Technologies in Simulation Games,” International System Dynamics Conference, Boston, 1990.

Invited Seminar Presentations

- “The Frequency and Nature of Disruptive Technological Change in Industries,” National Graduate Institute for Policy Studies, Tokyo, Japan, 10 June 2009.
- “Solid State Lighting Development and Policy in the Global Context,” U.S. Department of Energy, 14 May 2008.
- “Product Market Characteristics and the Industry Life Cycle,” Antitrust Division, U.S. Department of Justice, 8 May 2007.
- “Product Market Characteristics and the Industry Life Cycle,” University of Kentucky, 20 October 2006.
- “Ownership Change, Productivity, and Human Capital: New Evidence from Matched Employer-Employee Data in Swedish Manufacturing,” National Bureau of Economic Research, Cambridge, Ma., 22 November 2005.
- “Product Market Characteristics and the Industry Life Cycle,” Oklahoma University, 5 November 2004.
- “Technological Extinctions of Industrial Firms,” Rensselaer Polytechnic Institute, School of Management, Business Implications of Emerging Technologies MBA seminar, 26 October 2004.
- “Product Market Characteristics and the Industry Life Cycle,” Union College, 17 September 2004.
- “Two Roads to Riches,” Purdue University, Technology Transfer Initiative Seminar, 8 March 2004.
- “Product Market Characteristics and the Industry Life Cycle,” Purdue University, Economics Department, 8 March 2004.
- “Product Market Characteristics and the Industry Life Cycle,” Rensselaer Polytechnic Institute department of Decision Sciences and Engineering Systems, 18 November 2003.

- “Product Market Characteristics and the Industry Life Cycle,” Cornell University, 6 November 2003.
- “Product Market Characteristics and the Industry Life Cycle,” SUNY at Albany, 24 October 2003.
- “Information Technology and the Dynamics of Industry Structure: The UK IT Consulting Industry as a Contemporary Specimen,” Rensselaer Polytechnic Institute, February 2003.
- “Product Market Characteristics and the Industry Life Cycle,” University of Toronto, Rotman School of Management, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” University of Waterloo, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” University of Connecticut, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” Chalmers University of Technology, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” Ente Einaudi (Bank of Italy), 2002.
- “Industry Shakeouts and Technological Change,” University of Texas at Dallas, 2002.
- “Industry Shakeouts and Technological Change,” Worcester Polytechnic Institute, 2002.
- “Product Market Characteristics and the Industry Life Cycle,” Sussex Policy Research Unit, 2001.
- “Smoothing Hazards.” Stata User Group annual meeting, London, 2001.
- “Product Market Characteristics and the Industry Life Cycle,” University of East Anglia, 2001.
- “Product Market Characteristics and the Industry Life Cycle,” Nottingham University Business School, 2001.
- “Product Market Characteristics and the Industry Life Cycle,” LSE, 2001.
- “Competitive Dynamics following Privatization and Deregulation,” MIT Sloan School of Management, 2001.
- “Product Market Characteristics and the Industry Life Cycle,” Warwick University, 2001.
- “Dominance by Birthright: Entry of Prior Radio Producers and Competitive Ramifications in the U.S. Television Receiver Industry,” Lancaster University, 1999.
- “Industry Shakeouts and Technological Change,” City University Business School, 1998.
- “Revisiting the Limits to Growth,” London Business School Seminar in System Dynamics, 1997.
- “Technological Extinctions of Industrial Firms,” University of Reading Department of Economics, 1996.
- “Technological Change and Industry Shakeouts,” Warwick University Department of Economics, 1996.
- “Shakeouts: Firm Survival and Technological Change in New Manufacturing Industries,” and “Industry Data Analyzer: Software for Econometric Analysis of Time-Varying Survival Data,” Center for Economic Studies, US Census Bureau, 1995.
- “Shakeouts: Firm Survival and Technological Change in New Manufacturing Industries,” MIT Sloan School of Management, Operations Management Seminar, 1995.
- “Shakeouts: Firm Survival and Technological Change in New Manufacturing Industries,” Österreichisches Institut für Wirtschaftsforschung, Vienna, 1995.

“The Causes of Industry Shakeouts and the Dominant Design Mythology,” Carnegie Mellon University Seminar on Technology and Social Change, 1993.

“Management Flight Simulator: The Gaia Hypothesis and Daisyworld,” MIT Sloan School of Management System Dynamics Seminar, 1990.

Teaching

Preferred teaching: industrial organization, economics of technology, strategy, technology strategy, quantitative methods, dynamic modeling, econometrics

undergraduate: econometrics (Rensselaer), quantitative analysis (Rensselaer), industry strategy (Rensselaer), industrial growth and competition (London), industrial organization economics (London), quantitative methods for economics II (London), dissertations (sessions on research methods and econometrics, London); differential equations (MIT ESG 3 terms 1989-1990), general chemistry (MIT ESG 3 terms 1987-1988)

graduate: PhD advanced econometrics (Rensselaer), PhD advanced quantitative analysis (Rensselaer), PhD advanced microeconomics (Rensselaer), PhD industrial organization economics [independent study for 4 students] (Rensselaer), MSc industrial economics (London), MSc quantitative methods for economics (London); TA for systems thinking for MBAs (MIT spring 1987), TA for system dynamics to MBAs (MIT fall 1989)

executive: TA for system dynamics to executives (MIT summer 1989)

courses developed: industry strategic outcomes for entrepreneurs (Rensselaer), industrial growth and competition (London), quantitative methods for economics II (London), differential equations (MIT approved alternative to standard curriculum), general chemistry (MIT approved alternative to standard curriculum)

awards: admitted to the Institute for Learning and Teaching (now Higher Education Academy), 2002; Karl Taylor Compton prize, 1990 (MIT)

New courses were developed in ways that convey both subject-oriented knowledge and practical skills for research, problem-solving, and group work. Students are actively involved in classroom and lecture activities. The Karl Taylor Compton prize is MIT’s most prestigious student special award, given in this case for undergraduate and MBA/executive teaching, TA activities, and course development.

PhD Students

Ran Zhang, Economics, RPI, July 2009, “Essays on Firms’ Environmental Information Disclosure, Financial Performance and Behavior Change” - Advised and Chaired

John Marsh, School of Management, RPI, July 2009, “An Integrative Approach to Explaining the Acquisition Decision” - PhD committee membership

Yu Liu, School of Management, RPI, July 2009, “Three Essays on Corporate Growth Strategy and Firm Performance: A Contingency Perspective” - PhD committee membership

Sorin Krammer, Economics, RPI, June 2009, “Empirical Essays on Innovation Systems, Technology Diffusion and Industrial Dynamics” - Advised and Chaired

- Robert Wuebker, School of Management, RPI, June 2009, “American Venture Capital in a Post-American World: The Role of Firm Resources and Capabilities in U.S. Cross-Border Venture Capital Investment” - PhD committee membership
- Jarrett Kotrozo, School of Management, RPI, June 2008, “The Role of Absorptive Capacity on Diversification Performance: Theory and Evidence” - PhD committee membership
- Shruti Sardeshmukh, School of Management, RPI, April 2008, “Successor Development in Family Firms” - PhD committee membership
- Sarah Parrales, Economics, RPI, December 2007, “Experienced Utility in a Nicaraguan Village” - PhD committee membership
- Shu Han, School of Management, RPI, August 2007, “Essays on Information Technology and Innovation Processes: Exploring the Effects of IT Investments on R&D Effectiveness and Understanding the Drivers of Migration to Services by IT Product Vendors” - PhD committee membership
- Judith Walls, School of Management, RPI, April 2007, “The Impact of Corporate Governance on Environmental Strategy” - PhD committee membership
- Yi-Nung Peng, School of Management, RPI, Sept. 2006, “The Influence of Major Pioneering Product Innovations and Technological Trajectories in High Technology Markets: Lessons from the Personal Computer and Digital Music Industries” - PhD committee membership
- Daniel Robeson, School of Management, RPI, Ongoing PhD committee membership
- Zenu Sharma, School of Management, RPI, Ongoing PhD committee membership
- Huawei Song, Decision Sciences and Engineering Systems, RPI - Ongoing PhD committee membership

Administration

Rensselaer: School of Humanities and Social Sciences Faculty Council, 2004-to date. School of Humanities and Social Sciences Curriculum Committee, 2004-to date. Vice Provost of Entrepreneurship Faculty Interview Committee, 2004. Economics Department web site reorganization, 2003, alumni newsletter, 2006-2007.

Royal Holloway, University of London: Helped build Royal Holloway’s economics department from its inception in 1995. Activities at Royal Holloway include: steadily active in junior and senior recruitment; College Teaching Committee 1999-2000; Director of the Centre for Analytical Policy Studies 1999-2000; ran examinations for economics 2000-01; co-coordinator for accreditation 2000-01; postgraduate teaching committee 1998-99; exchange students coordinator for economics, 1997-98; organized undergraduate dissertations, 1995-2001.

Awards

- Best Paper, Academy of Management (Technology and Innovation Management Division), August 2009, for “Two Roads to Riches? The (In)Frequency of Strongly Disruptive Technological Change”
- Top Ten Downloaded Papers, Social Science Research Network (CGN: Employees, Labor, & the Workplace), 2009, for “Assessing the Effects of Ownership Change on

Women and Minority Employees: Evidence from Matched Employer-Employee Data.”

Top Ten Downloaded Papers, Social Science Research Network (Entrepreneurship & Marketing *and* ERPN Conferences *and* ERPN Conferences & Meetings), 2008, for “Lighting Industry: Structure and Technology in the Transition to Solid State”

Top Ten Downloaded Papers, Social Science Research Network (Labor: Demographics & Economics of the Family *and* Human Resource Management & Personnel), 2007, for “Assessing the Effects of Ownership Change on Women and Minority Employees: Evidence from Matched Employer-Employee Data”

Rensselaer Polytechnic Institute Faculty Achievement Award, 2007

Top Ten Downloaded Papers, Social Science Research Network (Product Innovation), 2006, for “Entrepreneurs Seeking Gains: Rational Motives in the Commercialization Decisions of Inventors”

Best Paper Proceedings and finalist for Carolyn Dexter Award (nominated by BPS division), Academy of Management, August 2003, for “Product Market Characteristics and the Industry Life Cycle”

Best Paper Proceedings, Academy of Management, August 2003, for “Information Technology and the Dynamics of Industry Structure”

Top Ten Downloaded Papers, Social Science Research Network (Political Economy), 2001, for “Political Instability and Growth in Dictatorships”

Top Ten Downloaded Papers, Social Science Research Network (Market Structure), 2000, for “The Making of an Oligopoly: Firm Survival and Technological Change in the U.S. Tire Industry”

National Science Foundation Graduate Fellowship, 1990 to 1993

Karl Taylor Compton Award from MIT, 1990, for exceptional teaching and contribution to the university