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- Education
- Stanford University, PhD, Economics, 1998.
 - Stanford University, MA, Economics, 1995.
 - Washington University, BA, *summa cum laude*, Economics, Mathematics (minor), 1992.
- Employment
- Progress & Freedom Foundation, Senior Fellow and Director of Communications Policy Studies, 2006 – present.
 - Stanford University, Lecturer, 2007 – present.
 - American Enterprise Institute, Resident Scholar, 2003 – 2006.
 - AEI-Brookings Joint Center for Regulatory Studies, Fellow 2003-2005, Senior Fellow 2005-2006.
 - The World Bank, Economist, 1998 – 2003.
 - Stanford University, Acting Assistant Professor of Public Policy and Visiting Researcher, Stanford Institute for Economics Policy Research, 1999-2001.
 - President's Council of Economic Advisers, Staff Economist, 1995-1996.
- Other Professional Affiliations
- Senior Fellow, Georgetown University Center for Business and Public Policy, Summer 2007–present.
 - Advisory board member, Center for Public Integrity Telecom project, 2006-present.
 - Member, "Sufficient Evidence? Building Certifiably Dependable Systems," National Academies of Sciences Computer Science and Technology Board, 2003 – 2007.
- Peer-Reviewed Publications
- "The Effects of Ownership and Benchmark Competition: An Empirical Analysis of U.S. Water Systems." With Katrina Kosec. Forthcoming in *International Journal of Industrial Organization*.
 - "Has the Internet Increased Trade? Evidence from Developed and Developing Countries." With George Clarke. *Economic Inquiry*. Vol. 44, No. 3. July 2006.
 - "The Economics of Net Neutrality." With Robert Hahn. *Economists' Voice*. Vol. 3, Issue 6. June 2006.
 - "Ownership, Investment Climate, and Firm Performance." With Mary Hallward-Dreimeier and Lixin Colin Xu. *Economics of Transition*. Vol. 14, No. 4. 2006.
 - "What Affects the Quality of Economic Analysis for Life-Saving Investments?" With Robert Hahn and Katrina Kosec. *Risk Analysis*. Vol. 26, Issue 3, June 2006.
 - "The Economic Cost of the Iraq War." *Economists' Voice*. Vol. 3, Issue 2. January 13, 2006.

- "Returning to Victorian Competition, Ownership, and Regulation: An Empirical Study of European Telecommunications." *Journal of Economic History*, Vol. 65, No. 3, September 2005.
- "Regulation and Internet Use in Developing Countries." *Economic Development and Cultural Change*, Vol. 53, No. 2, January 2005.
- "Privatizing Monopolies in Developing Countries: The Real Effects of Exclusivity Periods in Telecommunications." *Journal of Regulatory Economics*, Vol. 26, No. 3, November 2004.
- "Of Carts and Horses: Regulation and Privatization in Telecommunications." *Journal of Policy Reform*, Vol. 6, No. 4, 2003.
- "Telecommunications investment and traffic in developing countries: The effects of international settlement rate reforms." *Journal of Regulatory Economics*, Vol. 20, No. 3, pp. 307-323, November 2001.
- "An Econometric Analysis of Telecom Competition, Privatization, & Regulation in Africa and Latin America." *Journal of Industrial Economics*, Vol. 40, No. 1, March 2001.
- "An Empirical Test of Geographic Knowledge Spillovers Using Geographic Information Systems and Firm-Level Data." *Regional Science and Urban Economics*, Vol. 31, No. 5, pp. 571-599. September 2001.
- "The effects of government-industry R&D programs on private R&D: The Case of the Small Business Innovation Research Program." *RAND Journal of Economics*, Vol. 31, No. 1, Spring 2000.

Invited
Publications

- "Universal Telecommunications Service in India." With Roger Noll. NCAER-Brookings *India Policy Forum*, Volume 2, 2006.
- "Bandwidth for the People." With Robert Crandall, Robert Hahn, and Robert Litan. *Policy Review*, No. 127, Oct-Nov 2004.
- "New Tools for Studying Network Industry Reforms in Developing Countries: The Telecommunications and Electricity Regulation Database." With George Clarke, Luke Haggarty, Rosario Kaneshiro, Roger Noll, Mary Shirley, and Lixin Colin Xu. *Review of Network Economics*. Vol. 3, Issue 3, September 2004.
- "Internet Telephones: Hanging up on Regulation?" With Robert Crandall, Robert Hahn, and Robert Litan. *Milken Institute Review*. September 2004.
- "Has the Internet Increased Trade?" With George Clarke. *Trade and Industry Monitor*. Volume 30, June 2004.
- "The Role of Government in Regional Technology Development: The Effects of Science Parks and Public Venture Capital," in *Building High-Tech Clusters: Silicon Valley and Beyond*, Timothy Bresnahan and Alfonso Gambardella, Eds. Cambridge University Press, 2003.
- "Investment Climate in China." With David Dollar, Mary Hallward-Driemeier, Anqing Shi, Shuilin Wang, and Lixin Colin Xu. *World Bank Transition Newsletter*. Vol. 14, No. 7-9, July-Aug-Sept 2003.
- "Universal Service: Empirical Evidence on the Provision of Infrastructure Services to Rural and Poor Urban Consumers." With George Clarke. In *Infrastructure for Poor People: Public Policy for Private Provision*, Penelope J. Brook and Timothy C. Irwin, Eds. World Bank, 2003.

- "Improving the Investment Climate in Bangladesh" (lead author). World Bank Report, June 2003.
- "Domestic Policies to Unlock Global Opportunities." With Jeffrey Lewis. In *Global Economic Prospects and the Developing Countries*, 2003.
- "Household Responses to Macroeconomic Volatility." With George Clarke. In *Caribbean Economic Overview*. World Bank, 2003.
- "Improving the Investment Climate in China." With David Dollar, Lixin Colin Xu, and Others. World Bank Report, November 2002.
- "The R&D Boondoggle." *Regulation*. Vol. 23, No. 4, 2000.
- "Public-Private Technology Partnerships: Promises and Pitfalls." With Joseph Stiglitz. *Am. Behavioral Scientist*, Vol 43, No 1, Sept 1999. Reprinted in *Public Private Technology Partnerships*, P. Vaillancourt, Ed., MIT Press, 2000.
- "Telecom Reforms in Africa and Latin America." *Economic Reform Today*. Number 2, 1999.
- "Rethinking the Small Business Innovation Research Program." In *Investing in Innovation*, Lewis Branscomb and Richard Keller, Eds. MIT Press, Cambridge. 1998.

Editorials,
Commentaries,
and Other
Publications

- "Doing the Hustle at the FCC." Progress & Freedom Foundation *Progress Snapshot 3.8*. July 2007.
- "Antitrust, Two-Sided Markets, and Platform Competition: The Case of the XM-Sirius Merger." Progress & Freedom Foundation *Progress on Point 14.14*. July 2007.
- "Everything You've Heard About Broadband in the U.S. is Wrong." Progress & Freedom Foundation *Progress on Point 14.13*. July 2007.
- "Comments to the Federal Communications Commission Regarding High-Cost Universal Service Support." June 2007.
- "Towards Effective U.S. Broadband Policies." Progress & Freedom Foundation *Progress on Point 14.7*. May 2007.
- "Communications, Broadband, and Competitiveness: How Does the U.S. Measure Up." Testimony before the U.S. Senate Committee on commerce, Science and Transportation. April 24, 2007
- "Great Branding, Bad Policies: The Flaws of Open Access Regulations." Progress and Freedom Foundation *Progress Snapshot 3.5*. April 2007.
- "Need. More. TV." Progress and Freedom Foundation *Progress Snapshot 3.3*. February 2007.
- "Wireless Net Neutrality." Progress and Freedom Foundation *Progress Snapshot 3.2*. February 2007.
- "Merger Hangups." Progress and Freedom Foundation *Progress Snapshot*. December 2006.
- "The AT&T-BellSouth Merger: The Real Story." AEI-Brookings Policy Matter. October 2006.
- "No More Baseball Giveaways." *Washington Times*, August 11, 2006.
- "What U.S. Broadband Problem?" With Seth Sacher. *CNET.com*, July 3, 2006.

- "Debate over Net Neutrality Misplaced," With Robert Hahn. *Financial Times*, March 26, 2006.
- "When the Saints go Marching Out." *Baltimore Sun*, Nov 16, 2005.
- "Punting the Taxpayers." *New York Sun*, March 28, 2005.
- "City's WiFi Network Won't Close Digital Divide." *Philadelphia Inquirer*, February 17, 2005.
- "A Suite Deal: Plans for D.C. Ballpark a Ripoff." *Washington Times*, October 28, 2004.
- "Cheap Net Phones Face the Threat of a Tax Hanguap," with Robert Hahn and Gregory Rosston. *San Jose Mercury News*, June 17, 2004.
- "High-Tech Cluster Bombs: Why Successful Biotech Hubs are the Exception, Not the Rule." *Nature*, March 11, 2004.
- "Digital Dreams: How Regulations can Widen the Digital Divide." Syndicated worldwide through *Project Syndicate*. December, 2003.
- "Mr. President, Bring Your Academic Advisers in From the Cold," with Robert Hahn. *Financial Times*, October 30, 2003.
- "Congress Shorts Future Terror-Fighting Innovation." AEI-Brookings Joint Center Policy Matters 03-22, July 2003.
- "How Globalization Stabilizes Poor Countries." Syndicated worldwide through *Project Syndicate*. May-June, 2003.
- "Whose Life Is Worth More? (And Why Is It Horrible to Ask?)," with Robert Hahn. *Washington Post*, June 2, 2003.

Book Reviews

- A Review of Universities in the Age of Corporate Science: The UC Berkeley-Novartis Controversy. *Nature*, April 12 2007,
- A Review of *The State, Regulation, and the Economy*, Magnusson, Lars and Jan Ottoson, Eds. *Journal of Economic History*, Vol. 62, No. 4, December 2002.
- A Review of Jonathan Bean, *Big Government and Affirmative Action: The Scandalous History of the Small Business Administration*. *Journal of Economic History*, Vol. 61, No. 4, December 2001.

Working Papers

- "Has Deregulation Affected Investment in Special Access?" August 2007.
- "Antitrust policy and Innovation: The Impacts of the National Cooperative Research and Production Act." *In process*.
- "Broadband and Unbundling Regulations in OECD Countries." AEI-Brookings Joint Center Working Paper 06-16. June 2006. (Currently in "revise and resubmit" status at *Journal of Law and Economics*).
- "Telecommunications Regulation in U.S. States: Its Rise and Impacts in the Early Twentieth Century." AEI-Brookings Joint Center Working Paper 06-04. March 2006.
- "Broadband Penetration: An Empirical Analysis of State and Federal Policies." AEI-Brookings Joint Center Working Paper 05-12. January 2006. (Currently in 'revise and resubmit' status, *Review of Industrial Organization*).

- "The Economic Costs of the War in Iraq." With Katrina Kosec. AEI-Brookings Joint Center Working Paper 05-19. September 2005.
- "The Billion Dollar Pitch: An Analysis of the Ballpark Omnibus Financing and Revenue Act of 2004." With Katrina Kosec. November 2004.
- "Telecommunications Policy in India." With Roger Noll. June 2004.
- "Do Science Parks Generate Regional Economic Growth?" January 2004.
- "Has Private Participation in Water and Sewerage Improved Coverage? Empirical Evidence from Latin America." With George Clarke and Katrina Kosec. December 2003.
- "Do Remittances Act Like Insurance? Evidence From a Natural Disaster in Jamaica." With George Clarke. January 2003.
- "The Investment Climate and the Firm: Firm-Level Evidence From China." With Mary Hallward-Driemeier and Lixin Colin Xu. January 2003.
- "Telecommunication Reform in Ghana." With Mary Shirley and Luke Haggarty. November 2002.
- "Universal (ly Bad) Service: Providing Infrastructure Services to Poor and Rural Consumers in Developing Countries." With George Clarke. World Bank Policy Research Paper Number 2868. July 2002.
- Bresnahan, Timothy, Alfonso Gambardella, AnnaLee Saxenian, and Scott Wallsten. "'Old Economy' Inputs for 'New Economy' Outcomes: Cluster Formation in the New Silicon Valley." SIEPR Policy Paper No. 00-43. June 2001.
- "Surveying Surveys and Questioning Questions: Learning from World Bank Experience." With Lixin Colin Xu and Francesca Recanatini. March 2000.
- "Executive Compensation and Firm Performance: Big Carrot, Small Stick." SIEPR Working Paper 99-17. March 2000.

Speaking engagements and presentations

- Testimony, U.S. Senate Committee on Small Business and Entrepreneurship. September 26, 2007.
- Guest on C-Span, "The Communicators," July 7, 2007.
- Organizer and moderator, broadband data conference, June 28, 2007.
- Debate on broadband policy at National Press Club, June 15, 2007.
- Testimony, U.S. Senate Committee on Commerce, Science & Transportation. April 24, 2007.
- Center for European Policy Studies, Brussels, 2007.
- Federal Trade Commission, Broadband Connectivity Competition Policy, 2007.
- NetCaucus State of the Net Conference, 2007.
- Phoenix Center Annual Conference on Net Neutrality, 2006.
- Wilkinson, Barker, Knauer, LLP on Reverse Auctions, 2006.
- London Business School Global Communications Consortium, on Spectrum Policy and Competition, 2006.
- Progress and Freedom Foundation 2006 Aspen Summit, broadband investment.
- Pew Internet and American Life Foundation, broadband statistics, 2006.
- The Brookings Institution, on Telecommunications reforms in developing countries, 2006.
- AEI-Brookings Joint Center panel on network neutrality, 2006.

- McDonough School of Business, Georgetown University, on broadband policy, 2006.
- To National Defense University students on Iraq cost analysis, 2006.
- American Economic Association annual meeting, discussant and speaker in Transportation and Public Utilities Group sessions, 2006.
- AEI-Brookings Joint Center, OIRA 25th anniversary, moderator, 2005.
- NCAER-Brookings India Policy Forum, New Delhi, India, 2005.
- AEI, the economics of sports stadiums, 2005.
- AEI-Brookings Joint Center, the future of telecom deregulation, 2005.
- Stanford Institute for Economic Policy Research, telecommunications conference, co-organizer and discussant, 2005.
- CATO Institute, DC Baseball subsidies, November 2004.
- AEI-Brookings Joint Center, telecommunication and spectrum regulation, moderator, 2004.
- AEI-Brookings Joint Center, software and intellectual property rights, moderator, 2004.
- NCAER, telecommunications reform, New Delhi, India, 2004.
- AEI, globalization conference, 2004.
- Stanford University conference on Latin America, 2003.
- APEC conference on regulation, Mexico City, 2003.
- Economic History Association, St. Louis, 2002.
- FEEM Privatization Conference, Milan, 2002.
- Economic History Society, Birmingham, 2002.
- ISNIE 2002 Conference, Cambridge, 2002.
- Wharton School of Business, 2002.
- Georgetown University, 2001.
- ISNIE 2001 Conference, Berkeley, 2001.
- Ronald Coase Institute, Berkeley, 2001.
- Asia Pacific Research Center, Stanford University, Palo Alto, 2000.
- Washington University, St. Louis, 2000.
- The World Bank, 1999, 2000, 2002.
- U.S. House of Representatives, Committee on Science, Subcommittee on Technology, 1997.
- Econometrics Society Annual Meeting, Montreal, Canada 1998.
- NBER Summer Science & Tech Policy Conference, Cambridge, 1996.

Referee Activities

- American Economic Review
- Journal of Political Economy
- Journal of Industrial Economics
- RAND Journal of Economics
- Journal of Regulatory Economics
- Journal of Economic History
- Journal of Development Economics
- Journal of Comparative Economics
- Information Economics and Policy
- Telecommunications Policy
- International Journal of Industrial Organization
- Cambridge University Press
- US NSF Small Business Innovation Research Program

Honors

- Alfred P. Sloan Foundation Dissertation Fellowship, 1997 – 1998.
- Phi Beta Kappa.
- Omicron Delta Epsilon, International Economics Honor Society.
- Percy Tucker Fellow, Washington University Department of Economics award for outstanding economics undergraduate.