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| Education | <ul style="list-style-type: none">• Stanford University, PhD, Economics, 1998.• Stanford University, MA, Economics, 1995.• Washington University, BA, <i>summa cum laude</i>, Economics, Mathematics (minor), 1992. |
| Employment | <ul style="list-style-type: none">• U.S. Federal Communications Commission, National Broadband Task Force, Economics Director, August 2009 – present.• Technology Policy Institute, Vice President for Research and Senior Fellow, November 2007 – August 2009.• Stanford University, Lecturer, Spring 2007 – present.• Progress & Freedom Foundation, Senior Fellow and Director of Communications Policy Studies, November 2006 – November 2007.• AEI-Brookings Joint Center for Regulatory Studies, Fellow 2003-2005, Senior Fellow 2005-2006.• American Enterprise Institute, Resident Scholar, 2003 – 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 | <ul style="list-style-type: none">• Senior Fellow, Georgetown University Center for Business and Public Policy, Summer 2007 – present.• Special Consultant, Economists Incorporated, March 2008 – August 2009.• Economics and International Trade Team Member, Obama-Biden Presidential Transition, November 2008 – January 2009.• Advisory board member, Center for Public Integrity Telecom project, 2006 - 2007.• Member, "Sufficient Evidence? Building Certifiably Dependable Systems," National Academies of Sciences Computer Science and Technology Board, 2003 – 2007. |
| Peer-Reviewed Publications | <ul style="list-style-type: none">• "Enabling Efficient Wireless Communications: The Role of Secondary Spectrum Markets." With John Mayo. <i>Information Economics and Policy</i>, Forthcoming 2009.• "Measuring the Effectiveness of the Broadband Stimulus Plan." <i>Economists' Voice</i>. Vol. 6, Issue 6, May 2009.• "Net Neutrality, Unbundling, and their Effects on International Investment in Next-Generation Networks." With Stephanie Hausladen. <i>Review of Network Economics</i>. Vol. 8, Issue 1. 2009. |

- "The Effects of Ownership and Benchmark Competition: An Empirical Analysis of U.S. Water Systems." With Katrina Kosec. *International Journal of Industrial Organization*. Vol. 26, Issue 1. January 2008.
 - "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.
- Commentaries and Other Publications
- "South Asian Telecommunications Development and the Role of Regional Cooperation." With Caroline Cecot. In *The Service Revolution in South Asia*, Ejaz Ghani, Ed. Forthcoming 2010.
 - "An Economic Perspective on a U.S. National Broadband Plan." With Robert Hahn. Comments filed with the Federal Communications Commission In the Matter of A National Broadband Plan for Our Future. June 2009.

- "Comments of 71 Concerned Economists: Using Procurement Auctions to Allocate Broadband Stimulus Grants." Lead author with Paul Milgrom, Gregory Rosston, and Andrzej Skrzyzpacz. April 2009.
- "Reverse Auctions and Universal Telecommunications Service: Lessons from Global Experience." *Federal Communications Law Journal*. Vol. 61, No. 2, March 2009.
- "Saving the Digital Transition." With Gregory Rosston. Op-ed. CNET, January 2009.
- "The Economics of *Pacific Bell v. linkLine Communications*." *Economists Ink*, Summer 2008.
- "The DTV Coupon Program: A Boon to Retailers, Not Consumers." Technology Policy Institute Policy Perspective. September 2008.
- "Leveraging Communications: ICT as Economic Stimulus: A Plan for the Next Administration." Prepared as a background paper for the 2008 Aspen Institute Conference on Communications Policy. July 2008.
- "A Regulatory Play in Two Acts." *Regulation*. Vol. 30, No. 4. Winter 2007 – 2008.
- "Managing the Network: Rethink Prices, not Net Neutrality." *Progress Snapshot* 3.12. October 2007.
- "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." Comment filed at the FCC, WC Docket No. 05-337. 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* 2.28. 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 Hangup," 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 Broadband Problem: Anatomy of a Market Failure and a Policy Dilemma* by Charles Ferguson. *Journal of Law, Economics, and Policy*, Vol. 3, No. 2, Spring 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

- "Understanding International Broadband Comparisons: 2009 Update." Technology Policy Institute Working Paper. July 2009.
- Understanding International Broadband Comparisons. Technology Policy Institute Working Paper. May 2008.
- "Broadband and Unbundling Regulations in OECD Countries." First version June 2006; revised January 2008. (Currently in "revise and resubmit" status at *Journal of Law and Economics*).
- "Has Deregulation Affected Investment in Special Access?" August 2007.
- "Antitrust policy and Innovation: The Impacts of the National Cooperative Research and Production Act." 2007. Presented at Bates White annual antitrust/merger conference, June 2007.

- "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.
 - "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. Presented at the Stanford Institute for Economic Policy Research Conference on Economic Reforms in India, June 2004.
 - "Do Science Parks Generate Regional Economic Growth?" AEI-Brookings Joint Center Working Paper 04-04. March 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. World Bank. Available at SSRN: <http://ssrn.com/abstract=373480>. January 2003.
 - "The Investment Climate and the Firm: Firm-Level Evidence From China." With Mary Hallward-Driemeier and Lixin Colin Xu. World Bank Policy Research Working Paper No. 3003. January 2003.
 - "Telecommunication Reform in Ghana." With Mary Shirley and Luke Haggarty. World Bank Policy Research Working Paper No. 2983. 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. World Bank Policy Research Working Paper No. 2307. March 2000.
 - "Executive Compensation and Firm Performance: Big Carrot, Small Stick." SIEPR Working Paper 99-17. March 2000.
- Major speaking engagements, testimony, and presentations
- Testimony on reforming the universal service high cost fund, U.S. House of Representatives Committee on Energy and Commerce, Subcommittee on Communications, Technology, and the Internet, March 12 2009.
 - Keynote speaker, conference on network neutrality, Canada Public Policy Forum, November 20, 2008.
 - Testimony on broadband policy, FCC en banc hearing, Carnegie Mellon University, July 21, 2008.
 - Testimony on the Costs of the Iraq War, U.S. Congress Joint Economic Committee, February 28, 2008.

- Debate on broadband policy, PLI-FCBA 25th Annual Institute on Telecommunications Policy & Regulation, December 2007.
- Testimony on broadband and small business, 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 the National Press Club, June 15, 2007.
- Testimony, U.S. Senate Committee on Commerce, Science & Transportation. April 24, 2007.
- Presentation on broadband and network neutrality, Federal Trade Commission, Broadband Connectivity Competition Policy, 2007.
- Roundtable discussion on the state of broadband, NetCaucus State of the Net Conference, 2007.
- Wilkinson, Barker, Knauer, LLP on Reverse Auctions, 2006.
- London Business School Global Communications Consortium, on Spectrum Policy and Competition, 2006.
- Presentation on broadband investment, Progress and Freedom Foundation 2006 Aspen Summit.
- APEC conference on regulation, Mexico City, 2003.
- U.S. House of Representatives, Committee on Science, Subcommittee on Technology, 1997.

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.