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Education

Ph.D, Economics, University of California, Berkeley, 1999.
B.A, Economics and Mathematics, Yale University, 1990.

Professional Appointments

Associate Professor of Public Policy, Pepperdine University, 2006-present.
Senior Staff Economist, U.S. Federal Communications Commission, 2008-2009.
Assistant Professor of Economics, University of California, Davis, 1999-2006.

Memberships in Scholarly and Professional Organizations

Past and present membership includes: American Economic Association, Association for Public Policy Analysis and Management, Econometric Society, Industrial Organization Society, Western Economic Association.

Awards, Honors, and Fellowships

Listing in *Who's Who in America*, 63rd ed., 2009.
Listing in *Who's Who Among American Teachers & Educators*, 11th ed., 2007.
Thomas Mayer Distinguished Teaching Award, Department of Economics, University of California, Davis, 2003.
Outstanding Graduate Student Instructor Award, 1996.
Regents Intern Fellowship, University of California, Berkeley, 1993-1997.

Major Grants and Funding

Tilburg Law and Economics Center (TILEC), Innovation, Intellectual Property and Competition Policy Competition 2008, "Congestion Pricing for Patent Applications". April 2009, €15,000, with Alan Marco.
AEI-Brookings Joint Center for Regulatory Studies, "A New Approach to Estimating the Impact of Driver Cell Phone Use on Accidents," \$39,400, December 2002, with Robert W. Hahn.
UC California Policy Research Center, "The Taxation of Telecommunications in California", \$40,000, May 2001. Co-PI with Terri Sexton.

Other Grants

Provost's Grant, Office of the Associate Provost for Research, Pepperdine University, 2009

Undergraduate Instructional Improvement Program, Teaching Resources Center,
University of California, Davis, 2003-2004.
Junior Faculty Research Program Grant, Institute for Governmental Affairs, 2002.
Junior Faculty Research Program Grant, Institute for Governmental Affairs, 2001.
Undergraduate Instructional Improvement Program, Teaching Resources Center,
University of California, Davis, Minigrant, 2001, 2003.
Faculty Research Grant, University of California, Davis, 2000-2007.
Academic Senate Research Travel Award, 2000-2006.
New Faculty Research Grant, University of California, Davis, 1999-2000.

Professional Activities

Occasional Referee

Academic Journals: Applied Economics, The B.E. Journal of Economic Analysis & Policy, Contemporary Economic Policy, Econometrics Journal, E-Commerce Research Journal, Global Business & Economics Review, Information Systems Frontiers, International Journal of Advanced Media and Communication, International Journal of Industrial Organization, Journal of Applied Econometrics, Journal of Business and Economics, Journal of Economics, Journal of Law & Economics, Journal of Law, Economics, & Organization, Journal of Regulatory Economics, Journal of Urban Studies, Managerial and Decision Economics, Papers in Regional Science, Quarterly Journal of Economics, RAND Journal of Economics, Telecommunications Policy.

Book and Chapter Proposals: Idea Group publishing, IGI Global, MIT Press, Routledge.

Grant Proposals: National Science Foundation, University of California Energy Institute.

Other reviewing: Transportation and Public Utilities Group Dissertation Award.

Other Professional Activities

Editorial Board Member: Applied Economics Quarterly (2005-present), Handbook of Research on Telecommunications Planning and Management for Business (2007-2008).

Editorials in media:

“Taxes - a cautionary tale” (with D. Davenport), [San Francisco Chronicle](#), Feb. 2, 2009.

“Cell-phone bill based on faith, not research” (with D. Davenport), [San Francisco Chronicle](#), Sept. 14, 2006.

Interviewed or quoted in the media: [Forbes Magazine](#) (Americans With Disabilities Act); [American City Business Journals](#), [Dateline UC Davis](#), [Government Technology](#) magazine, KCBS San Francisco radio, KCRA TV Sacramento, KFBK Sacramento radio, KMAX UPN TV Sacramento, KXJZ Capitol Public Radio, KVIE Central Valley Public Television, [Los Alamos National Laboratory News Bulletin](#), [News-Medical.net](#), RCR Wireless News, [Los Angeles Times](#), Sacramento Business Journal, [San Francisco Business Times](#), [Telematics Update](#), UC Davis Magazine (cell phone usage in cars); Woodland Daily Democrat, KCSN Northridge radio (telecommunications taxation); [Black Issues in Higher](#)

[Education](#) (digital divide), [C-SPAN](#), [Communications Daily](#) (broadband and productivity); [ComputerWorld](#), [Industry Standard](#), [InfoWorld](#), [NetworkWorld](#), [PCWorld](#) (broadband demand policy).

Consultant or expert testimony experience: American Public Power Association (electricity rate structures), [Ameritech](#) (advanced telecom services), [AT&T](#) (local telecom competition, broadband stimulus).

University Service

Pepperdine University

University Committees: Graduate and Professional Human Subjects Institutional Review Board, 2006-2008.

Departmental Committees: SPP Assessment Committee, 2008-2009; Forstmann Scholarship Committee, 2007; Faculty Recruiting, 2006-2007.

Faculty Advisor, *Pepperdine Policy Review* (student journal), 2007-2008, 2009-present.

University of California, Davis

University Committees: Tenure Review Ad Hoc Committee (observer), 2005; Grade Change Committee, 2003-2006; Tenure Review Ad Hoc Committee (observer), 2002.

Departmental representative to the Representative Assembly of the College of Letters and Sciences, 2002-2005.

Departmental Committees: Applied Microeconomics Seminar, 2001-2, 2005; Computer, 2002-2006 (chair 2003-2005); Industrial Organization Prelim Exam 2000-2005 (chair 2003); Recruiting, 2001-2002, 2003-2006; Undergraduate Advising, 1999-2006; Lecturer Evaluation, 2004; Undergraduate Studies, 2001-2002; Undergraduate Curriculum, 2002; Placement, 2000-2001.

Teaching

Associate Professor, School of Public Policy, Pepperdine University, 2006-present.

Teaching of MPP students: Applied Microeconomics of Public Policy (core microeconomics), Applied Econometrics, Economic Analysis of Antitrust and Regulation Policy, Economics and Policy of Science and Innovation.

Assistant Professor, Department of Economics, University of California, Davis 1999-2006. Undergraduate: Intermediate Microeconomics, Economics of Antitrust and Regulation. Graduate: Economic Regulation, Applied Micro Seminar.

Primary Instructor, Department of Economics, University of California, Berkeley, Summer 1998. Intermediate Microeconomics.

Teaching Assistant, Department of Economics, University of California, Berkeley, 1995-1998. Intermediate Microeconomics (3 semesters), Industrial Organization.

Reader, Department of Economics, University of California, Berkeley. Graduate Time Series Analysis.

Research

Publications in Refereed Journals

- "Economics at the FCC, 2008-2009: Broadband and Merger Review" (with Michelle Connolly), *Review of Industrial Organization*, forthcoming.
- "Product Innovation, Signaling, and Endogenous Regulatory Delay," *Journal of Regulatory Economics*, Vol. 34, No. 2 (October 2008), 95-118.
- "The Broadband Digital Divide and the Nexus of Race, Competition, and Quality" (with Wei-Min Hu), *Information Economics and Policy*, Vol. 20, No. 2 (June 2008), 150-167.
- "Are Drivers Who Use Cell Phones Inherently Less Safe?" (with Robert W. Hahn), *Applied Economics Quarterly*, Vol. 53, No. 4 (2007), 327-352. Previously available as [AEI-Brookings Joint Center Working Paper No. 07-10](#).
- "The Impact of Cost Changes on Industry Dynamics," *Journal of Economics*, Vol. 91, No. 3 (July 2007), 211-243.
- "Regulatory Delay and the Timing of Product Innovation," *International Journal of Industrial Organization*, Vol. 25, No. 2 (April 2007), 219-236.
- "The Impact of Driver Cell Phone Use on Accidents," with Robert Hahn. *The B.E. Journal of Economic Analysis & Policy*, Vol. 6 (2006), Iss. 1 (Advances), [Article 9](#). Previously available as [AEI-Brookings Joint Center for Regulatory Studies Working Paper 04-14](#), July 2004. Designated an AEI-Brookings Joint Center Top 10 download in many months (downloaded over 1,100 times in first month after posting, 14,100 times as of August 2009).
- "Bootstrapping the Conditional Moment Test for Parametric Duration Models," *Applied Economics Letters*, Vol. 10, No. 10 (15 August 2003), 597-600.
- "The Supply Side of the Digital Divide: Is There Equal Availability in the Broadband Internet Access Market?" *Economic Inquiry*, Vol. 41, No. 2 (April 2003), 346-363.
- "Regulation, Innovation, and the Introduction of New Telecommunications Services," *Review of Economics and Statistics*, Vol. 84, No. 4 (November 2002), 704-715.
- "A Model for Regulated Product Innovation and Introduction with Application to Telecommunications," *Applied Economics Letters*, Vol. 9, No. 10 (15 August 2002) 625-629.
- "A Flexible Parametric Selection Model for Non-Normal Data With Application to Health Care Usage," *Journal of Applied Econometrics* Vol. 17, No. 4 (2002), 367-392.
- "Telecommunications Regulation and New Services: a Case Study at the State Level," *Journal of Regulatory Economics*, Vol. 20, No. 3 (November 2001), 285-305.
- "Universal Service and the Telecommunications Act of 1996," *Telecommunications Policy*, Vol. 22, No. 1 (February 1998), 57-71.
- "Ramsey Pricing and Competition: The Consequences of Myopic Regulation," *Journal of Regulatory Economics*, Vol. 10, No. 3 (November 1996), 307-322.

Book Chapters (Refereed)

- "The Empirics of the Digital Divide: Can Duration Analysis Help?" (with Wei-Min Hu), *Handbook of Research on Overcoming Digital Divides: Constructing an Equitable and*

Competitive Information Society, Enrico Ferro, et al. (eds), Hershey, PA: IGI Global, July 2009.

“Is Regulation a Roadblock on the Information Highway?” (with Daniel Heil). In *Handbook of Research on Telecommunications Planning and Management for Business*, I. Lee (ed), Hershey, PA: IGI Global, 2009. Previously available under the title “The Rules of the Road or Roadblocks on the Information Highway? Regulation and Innovation in Telecommunications” as [AEI Center for Regulatory and Market Studies Working Paper 08-15](#), April 2008.

“Regulation and the Deployment of Broadband” (with Sunhwa Lee), in *Handbook of Research on Global Diffusion of Broadband Data Transmission, Vol. 1*, Y.K. Dwivedi, et al. (eds), Hershey, PA: IGI Global, 2008, pp.278-303.

“Competition in Broadband Provision and the Digital Divide” (with Wei-Min Hu), in *Handbook of Research on Global Diffusion of Broadband Data Transmission, Vol. 1*, Y.K. Dwivedi, et al. (eds), Hershey, PA: IGI Global, 2008, pp.241-259. Previously available under the title “The Timing of Broadband Provision: The Role of Competition and Demographics” as [AEI-Brookings Joint Center for Regulatory Studies Working Paper 07-06](#), March 2007.

Other Refereed Publications

“The Taxation of Telecommunications in California in the Information Age,” with Terri A. Sexton and Annette Nellen. Summary version: *Brief*, Policy Research Program, California Policy Research Center, Vol. 15, No. 4, April 2003. Complete report: [Detailed Research Findings](#), Policy Research Program, California Policy Research Center, April 2003 (172 pp.).

“The Supply Side of the Digital Divide: Is There Redlining in the Broadband Internet Access Market?” [AEI-Brookings Joint Center for Regulatory Studies Working Paper 01-16](#), December 2001. Designated an AEI-Brookings Joint Center Top 10 download in many months January 2002- August 2006 (downloaded over 9,300 times as of August 2006).

Non-Refereed Publications

“The Taxation of Telecommunications in California in the Information Age,” with Terri A. Sexton and Annette Nellen. *State Tax Notes*, Vol. 29, No. 11, September 15, 2003.

Entries for “Duke Energy,” “Dynergy,” “Daniel McFadden,” “Reliant Energy,” “SBC Communications,” and “Verizon Communications,” *Encyclopedia of Capitalism*, Syed B. Hussain (ed.), Facts on File, 2004.

Papers in Submission

“The Macroeconomic Impact of E-Business” (with Daniel Heil). In *Encyclopedia of E-Business Development and Management in the Global Economy*, I. Lee (ed), Hershey, PA: IGI Global, forthcoming 2010. [Expanded version](#) available at SSRN.

“The Microeconomic Impact of E-Business” (with Daniel Heil). In *Encyclopedia of E-Business Development and Management in the Global Economy*, I. Lee (ed), Hershey, PA: IGI Global, forthcoming 2010. [Expanded version](#) available at SSRN.

- “Verifiable and Non-Verifiable Anonymous Mechanisms for Regulating a Polluting Monopolist” (with Nicholas J. Sanders), 2009.
- “Applications Barriers to Entry and Exclusive Vertical Contracts in Platform Markets” (with Wei-Min Hu), November 2007. *Net Institute Working Paper #07-46*. Revision requested at a journal.

Other Working Papers

- “Demand-Side Programs to Stimulate Adoption of Broadband: What Works?” with Janice Hauge, October 2009.
- “An Empirical Analysis of Indirect Network Effects in the Home Video Game Market,” with Wei-Min Hu, *NET Institute Working Paper #06-25*, September 2006.
- “The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms,” *AEI-Brookings Joint Center for Regulatory Studies Working Paper 04-23*, November 2004. Designated an AEI-Brookings Joint Center Top 10 download December 2004-June 2006 (downloaded over 7,861 times as of October 2009).
- “An Empirical Investigation of Biased Survey Data and an Attempted Cure,” *UCD Working Paper 04-4*, August 2004.
- “Conditional Moment Tests for Parametric Duration Models,” September 2000. Part of this paper is published as “Bootstrapping the Conditional Moment Test for Parametric Duration Models” (see *Publications in Refereed Journals* section above).

Regulatory Testimony and Filings

- [Letter](#) filed with the Federal Communications Commission re SBC Communications Inc. and AT&T Corp. Transfer of Control Applications, WC Docket No. 05-65 (co-signed with 13 other economists), October 17, 2005.
- Testimony filed with the Arkansas Public Service Commission on behalf of AT&T in the matter of Impairment Analysis of Local Circuit Switching for the Mass Market (local telephone competition), March 2004.
- “The Effects of Regulation on the Innovation and Introduction of New Telecommunications Services,” *Attachment (part 1, part 2, part 3) to Petition of Ameritech to the FCC to Remove Barriers to Investment in Advanced Telecommunications Capability*, March 1998 and *Attachment (part 1, part 2, part 3) to Comments by Ameritech to the FCC in the matter of Computer III Further Remand Proceedings*, March 1998.

Invited Presentations

- “Policies for Boosting Broadband Demand,” The Information Technology & Innovation Foundation, Washington, D.C., November 2009.
- “Designing and Assessing Studies of the Impact of Broadband on Productivity,” National Broadband Plan Workshop on Economic Growth, Job Creation, and Private Investment, Federal Communications Commission, Washington, D.C., August 2009 (invited panelist).
- “Applications Barriers to Entry and Exclusive Vertical Contracts in Platform Markets,” Federal Communications Commission, November 2008.

- "Applications Barriers to Entry and Exclusive Vertical Contracts in Platform Markets," Economic Analysis Group, Antitrust Division, U.S. Dept. of Justice, October 2008.
- "The Economics and Policy of Regulation and Innovation," Peking University Shenzhen School of Business, Shenzhen, China, April 2008.
- "An Empirical Analysis of Indirect Network Effects in the Home Video Game Market," University of Texas Arlington, October 2007.
- "An Empirical Analysis of Indirect Network Effects in the Home Video Game Market," [NET Institute Conference on Network Economics](#), Stern School of Business, NYU, April 2007.
- "Perspectives on Economic Research Using Broadband-Related Data", panelist, Pew Charitable Trusts Workshop on Measuring Broadband, June 2006.
- "New Estimates of Broadband Supply and Demand," Federal Communications Commission, May 2006.
- "The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," California Polytechnic State University, San Luis Obispo, January 2006.
- "The Impact of Driver Cell Phone Use on Accidents," Pepperdine University School of Public Policy, January 2006.
- "The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," University of Richmond, January 2006.
- "The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," Vassar College, September 2005.
- "The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," NBER Summer Institute in Law and Economics, July 2005.
- "New Estimates of Broadband Supply and Demand," Internet Use in the Americas Workshop, NSF-Conacyt, Mexico City, June 2005.
- "The Impact of Driver Cell Phone Use on Accidents," Department of Public Health Sciences and the Center for Health Services Research in Primary Care Joint Seminar, UC Davis, March, 2005.
- "Broadband Entry and Demand: The Roles of Market Characteristics and Competition," The Economic Impacts of Technology Conference, UC Santa Cruz, December 2004.
- "The Impact of Driver Cell Phone Use on Accidents," Policy Watch Seminar Series, Institute for Governmental Affairs at UC Davis, October 2004.
- "The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," University of California, Irvine, May 2003.
- "The Taxation of Telecommunications in California," presentation to the California State Senate Office of Research, September 2002.
- Other invited presentations (before 2000) include seminars at Clemson, Georgia Tech, INSEAD, NIST Advanced Technology Program, UC Irvine, University of Florida.

Other Conference Presentations

- "Oust the Louse: Do Political Pressures Discipline Regulators?," Center for Research in Regulated Industries 28th Annual Eastern Conference, Skytop Lodge, Skytop, PA, May 2009.

- "The Rules of the Road or Roadblocks on the Information Highway? Regulation and Innovation in Telecommunications," International Industrial Organization Conference, Ballston Center, Marymount University, May 2008.
- "An Empirical Analysis of Indirect Network Effects in the Home Video Game Market," Western Economic Association International 82nd Annual Conference, Seattle, July 2007.
- "An Empirical Analysis of Indirect Network Effects in the Home Video Game Market," International Industrial Organization Conference, Coastal Georgia Center, Georgia Southern University, April 2007.
- "The Impacts of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," 2005 World Congress of the Econometric Society, London, August 2005.
- "New Estimates of Broadband Supply and Demand," Western Economic Association International 80th Annual Conference, San Francisco, July 2005.
- "New Estimates of Broadband Supply and Demand," Center for Research in Regulated Industries 18th Annual Western Conference, San Diego, June 2005.
- "New Estimates of Broadband Supply and Demand," International Industrial Organization Conference, Georgia Tech, April 2005.
- "New Estimates of Broadband Supply and Demand," Public Utility Research Center and London Business School Annual Telecommunications Conference, University of Florida, February 2005.
- "Using a Cell Phone While Driving and Accident Risk," Western Economic Association International 79th Annual Conference, Vancouver, B.C., July 2004.
- "The Impacts of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," North American Summer Meeting of the Econometric Society, Providence, June 2004.
- "The Impacts of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," International Industrial Organization Conference, Chicago, April 2004.
- "The Impacts of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," North American Winter Meeting of the Econometric Society, San Diego, January 2004.
- "Unbundling Requirements, State Regulatory Policies and Broadband Internet Access," Transportation and Public Utilities Group Annual Meeting, San Diego, January 2004.
- "Did the Americans With Disabilities Act Cause Retail Firms to Fail?" Business and Economics Society International Conference, San Francisco, July 2003.
- "The Impact of Cost Changes on Industry Dynamics," IOFest, Stanford University, October 2002.
- "Recovering Firms' Arrival and Exit Rates from Count Data: The Impacts of the Americans with Disabilities Act" Western Economic Association International 77th Annual Conference, Seattle, July 2002.
- "The Supply Side of the Digital Divide: Is There Redlining in the Broadband Internet Access Market?" Center for Research in Regulated Industries 15th Annual Western Conference, South Lake Tahoe, June 2002.
- "Who's Jumping on the Broadband Wagon?" Western Economic Association International 76th Annual Conference, San Francisco, July 2001.

“Regulation, Innovation, and the Introduction of New Telecommunications Services: a Queuing Theoretic Approach,” 2000 World Congress of the Econometric Society, Seattle, August 2000.

“Telecommunications Regulation and Product Innovation: the Role of Regulatory Delay,” Western Economic Association International 75th Annual Conference, Vancouver, B.C., July 2000.

“Roadblocks on the Information Highway: Regulatory Obstacles to Innovation and Investment” (with and presented by Robert G. Harris), presentation at the MSU School of Public Policy Regulation Conference, Williamsburg, VA, 1997.

Dissertation

Regulation, Innovation, and the Introduction of New Telecommunications Services: A Queuing Theoretic Approach. University of California, Berkeley (Richard J. Gilbert, advisor), Spring 1999.

Personal

Citizenship: U.S.

Family: married, two children.