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EDUCATION:

Ph.D., Economics, Auburn University, 1994.

B.S., Economics (magna cum laude), Auburn University, 1990.

EXPERIENCE:

2000 - Present

**PHOENIX CENTER FOR ADVANCED LEGAL AND
ECONOMIC PUBLIC POLICY STUDIES**

Washington, DC

Chief Economist

2006 - Present

SAMFORD UNIVERSITY, Birmingham, Alabama

Adjunct Professor

2004 - Present

APPLIED ECONOMIC STUDIES, Birmingham, Alabama

President

2000 - 2004

Z-TEL COMMUNICATIONS

Tampa, FL

Chief Economist, Strategic Policy and Planning

1996 - 2000

MCI WORLDCOM CORPORATION

Washington, D.C.

Senior Economist, Office of Policy and Strategic Planning

1994 - 1996

FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C.

Economist, Office of the General Counsel & Cable Bureau,
Competition Division

SERVICE:

Journal Referee (numerous)

President, Greystone Cove Homeowners Association

President, Board of Trustees, Unity of Birmingham

PUBLISHED RESEARCH:

- “Taxation by Regulation: Spectrum Repurposing at the FCC and the Prolonging of Spectrum Exhaust,” with T.R. Beard, L.J. Spiwak, and M. Stern, *Hastings Journal of Law & Technology*, Forthcoming, 2015.
- “Reflecting on Twenty Years Under the Telecommunications Act of 1996,” *Federal Communications Law Journal*, Vol. 68, 2016.
- “Lessons Learned from the U.S. Unbundling Experience,” with Lawrence J. Spiwak, *Federal Communications Law Journal*, Vol. 68, 2016.
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- “Market Mechanisms and the Efficient Use and Management of Scarce Spectrum Resources,” with T. Randolph Beard, Lawrence J. Spiwak, and Michael Stern, *Federal Communications Law Journal*, Vol. 66, 2014.
- “Market Definition and the Economic Effects of Special Access Price Regulation,” with T. Randolph Beard and Lawrence J. Spiwak, *CommLaw Conspectus*, Vol. 22, 2014.
- “Internet Use and Depression among Retired Older Adults in the U.S.: A Longitudinal Analysis,” with S. Cotten, S. Ford, and T. Hale, *Journals of Gerontology: Social Sciences*, Vol. 69, 2014.
- “Capital Investment and Employment in the Information Sector,” with T. Randolph Beard and H. Kim, *Telecommunications Policy*, Vol. 38, 2014.
- “Secularism, Religion and Political Choice,” with R. Ekelund Jr., T. R. Beard, R. Gaskins, and R. Tollison, *Politics & Religion*, Vol. 6, 2013.
- “Theft and Welfare in General Equilibrium: A Theoretical Note,” with T. R. Beard, M. Stern, and L. Stern, *Theoretical Economic Letters*, Vol. 2, 2012.
- “Justifying the Ends: Section 706 and the Regulation of Broadband,” with L. J. Spiwak, *Journal of Internet Law*, Vol. 16, 2013.
- “Wobbling Back to the Fire: Economic Efficiency and the Creation of a Retail Market for Set-Top Boxes,” with T. R. Beard, L. J. Spiwak, and M. Stern, *CommLaw Conspectus*, Vol. 21, 2012.
- “Wireless Competition Under Spectrum Exhaust,” with T. R. Beard, L. J. Spiwak, and M. Stern, *Federal Communications Bar Journal*, Vol. 65, 2012.

- “Endogenous Sunk Costs, Quality Competition and Welfare,” with M. Stern, *Theoretical Economic Letters*, Vol. 1, 2011.
- “Internet Use and Job Search,” with T. R. Beard, R. Seals, and R. Saba, *Telecommunications Policy*, Vol. 36, 2012.
- “Internet Use and Depression Among Older Adults,” with S. Cotten, S. Ford, and T. Hale, *Computers in Human Behavior*, Vol. 28, 2012.
- “The Economics of Religious Schism and Switching,” with T. R. Beard, R. B. Ekelund Jr., and R. D. Tollison (Forthcoming in *Oxford Handbook on the Economics of Religion* 2012).
- “Broadband Expectations and the Convergence of Ranks,” *Telecommunications Policy*, Vol. 35, 2011.
- “The Frontier of Broadband Adoption Across the OECD: A Comparison of Performance,” *International Economic Journal*, Vol. 25, 2011.
- “The Pricing of Pole Attachments: Implications and Recommendations,” with T. R. Beard and L. J. Spiwak, *Review of Network Economics*, Vol. 9, 2010.
- “The Broadband Credibility Gap,” with L. J. Spiwak and M. L. Stern, *CommLaw Conspectus*, Vol. 75, 2010.
- “The Burden of Network Neutrality Mandates on Rural Broadband Deployment,” with T. M. Koutsy and L. J. Spiwak, *Journal of Applied Economy*, 2010.
- “An Investigation into the Relationship of Retail Gas Prices on Oil Company Profitability,” *Applied Economics*, Vol. 43, 2011.
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- "HAC Standard Errors and the Event Study Methodology: A Cautionary Note," with J. Jackson. *Applied Economics Letters*, Vol. 16, 2009.
- "Sample Size and the Accuracy of the Generalized Lambda Distribution," with S. Skinner. *Communications in Statistics - Simulation and Computation*, Vol. 38, 2009.
- "Network Neutrality and Foreclosing Market Exchange," with T. R. Beard, T. M. Koutsky, and L. J. Spiwak. *International Journal of Management and Network Economics*, Vol. 1, 2009.
- "Developing a National Wireless Regulatory Framework: A Law and Economics Approach," with T. R. Beard, T. M. Koutsky, and L. J. Spiwak. *CommLaw Conspectus*, Vol. 16, 2008.
- "Constituency Size and the Growth of Public Expenditures: The Case of the United Kingdom," with M. Thornton and M. Ulrich. *Journal of Public Choice and Finance*, Vol. 24, 2006 (published in 2008).
- "The Competitive Effects of Quantity Discounts," with T. R. Beard and D. L. Kaserman. *Antitrust Bulletin*, Vol. 52, 2007.
- "Network Neutrality and Industry Structure," with T. R. Beard, Thomas M. Koutsky and Lawrence J. Spiwak. *Hastings Communications and Entertainment (Comm/Ent) Law Journal*, Vol. 29, 2007.
- "A La Carte and 'Family Tiers' as a Response to a Market Defect in the Multichannel Video Programming Market," with T. R. Beard and Thomas M. Koutsky. *CommLaw Conspectus*, Vol. 15, 2006.
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- "Does Municipal Supply of Communications Crowd-Out Private Communications Investment? An Empirical Study," *Energy Economics*, Vol. 29, 2007.

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Introductory article by the Guest Editors in a Special Issue of the
International Journal of the Economics of Business, Vol. 13, 2006.

“Empirical Simulation of Mergers: The Cingular and AT&T Wireless Merger,” with T. Randolph Beard and Richard P. Saba. *International Journal of the Economics of Business*, Vol. 13, 2006.

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“Are Unbundled and Self-Supplied Telecommunications Switching Substitutes? An Empirical Study,” with T. Randolph Beard. *International Journal of the Economics of Business*, Vol. 12, 2005.

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“On the Relationship between Telecommunications Investment and Economic Growth: Three Empirical Studies,” with R. Beil and J. Jackson. In *Economic Growth Issues*, Nova Publishers, 2005.

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“The Fallacy of Regulatory Symmetry: An Economic Analysis of the “Level Playing Field” in Cable TV Franchising Statutes,” with Thomas W. Hazlett. *Business & Politics*, Vol. 3, 2001.

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“Market Power in Radio Markets: An Empirical Analysis of Local and National Concentration,” with Robert B. Ekelund, Jr. and Thomas Koutsky. *Journal of Law and Economics*, Vol. XLIII, 2000.

“TV Advertising, Local Markets and Merger Guidelines: An Empirical Study,” with Robert B. Ekelund, Jr. and John D. Jackson. *International Journal of the Economics of Business*, Vol. 7, 2000.

“Preserving Free Television? Some Empirical Evidence on the Efficacy of Must Carry,” with John D. Jackson. *Journal of Media Economics*, Vol. 13, 2000.

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“On the Interpretation of Policy Effects from the Estimates of Simultaneous Systems of Equations,” with John D. Jackson. *Applied Economics*, Vol. 30, 1998.

“Information Costs and Nirvana Revisited: Edwin Chadwick on Nineteenth Century Urban Funeral Markets,” with Robert B. Ekelund, Jr. *Journal of Regulatory Economics*, Vol. 12, 1997. Reprinted in the *The Foundations of Regulatory Economics*, Ed. R. B. Ekelund, Jr., Edward Elgar Publishing.

“Horizontal Concentration and Vertical Integration in the Cable Television Industry” with John D. Jackson. *Review of Industrial Organization*, Vol. 12, 1997.

EXAMPLES OF LITIGATION, REGULATORY DOCUMENTS, TESTIMONY:

“The Impact of Government-Owned Broadband Networks on Private Investment and Consumer Welfare,” written for the State Government Leadership Foundation (April 6, 2016).

Alabama Attorney General, Consumer Advocate Office (Rate Proceeding before the Alabama Public Service Commission, Summer 2013).

Testimony of Phoenix Center Chief Economist Dr. George S. Ford before the United States Senate Committee on Commerce, Science and Transportation - Subcommittee on Communications, Technology, and the Internet, Hearing on the "State of Wireless Communications" (June 4, 2013).

Testimony of Phoenix Center Chief Economist Dr. George S. Ford before the United States the House of Representatives Committee on Energy and Commerce Subcommittee Communications and Technology, Hearing on "Health Information Technologies: Harnessing Wireless Innovation" (March 19, 2013).

A Legal and Economic Review of the U.S. Unbundling Experience, Prepared for USAID under contract No. EEM-I-00-07-00009-00; Order No. AID-527-TO-10-00002, for the Peru Andean Trade Capacity Building (PATCB) (May 2012). Presentation of the Report to OSIPTEL in Lima, Peru, in a two-day seminar in October 2012.

Testimony on Copyright Royalties (Proceeding in 2012, Canada): Client: Re:Sound.

Testimony on Webcasting Copyright Royalties (Multiple proceedings in years 2009-12): Client: Soundexchange, Inc.

Testimony on Cable Retransmission Copyright Royalties 2004-2005 (Proceeding in years 2009-10), Client: Motion Picture Association of America.

National Telecommunications and Information Administration: Broadband Data Transparency Workshop, U.S. Department of Commerce, National Telecommunications and Information Administration, Herbert C. Hoover Building, Washington, DC (October 30, 2009).

Business News Network's Market Morning Talk Time: How Much Americans and Canadians Really Pay for Cell Phone Use, Television Appearance, (September 18, 2009).

Federal Communications Commission Workshop: Deployment Unserved/Underserved, Federal Communications Commission, Washington, DC (August 12, 2009).

OECD Expert Workshop on Measuring Mobile/Wireless Service Data, Evaluating Broadband Adoption, Lisbon, Portugal (February 19-20, 2009).

Autoridade Nacional de Comunicações (ANACOM), Agência Nacional de Telecomunicações (ANATEL) (Broadband Adoption Project, 2009).

17th ANACOM Seminar, Study and Presentation, The Broadband Efficiency Index: What Really Drives Broadband Adoption Across the OECD (September 25, 2009).

Developing a "National Broadband Strategy" - Understanding the OECD Rankings and the Drivers of Broadband Adoption. Presentation at the U.S. Congress Rayburn House Office Building (July 28, 2008).

Testimony Before the Federal Communications Commission's Open Meeting on Network Neutrality and Broadband Network Management, Stanford University (April 17, 2008).

A Valley of Death in the Innovation Sequence: An Economic Investigation, United States Department of Commerce, Technology Administration (September 2007).

Testimony Before the House Committee on Commerce and Energy - Subcommittee on Telecommunications and the Internet Hearing on "Digital Future of the United States: Part IV: Broadband Lessons from Abroad" (April 24, 2007).

Testimony Before the House Committee on Commerce and Energy - Subcommittee on Telecommunications: A Discussion Draft Addressing Broadband Mapping and Data Collection (May 17, 2007).

Capitol Hill Inter-Active Workshop: Sound Internet Policy for the 21st Century: Understanding the Economic Fundamentals (Feb. 2007).

Broadband Connectivity Competition Policy, Federal Trade Commission (Feb. 2007).

3rd Annual State of the Net Conference 2007, Advisory Committee to the Congressional Internet Caucus (Jan. 2007).

Carter Estate v. CSXT, Louisville, Kentucky (2006).

Ken Hecht v. Comcast of Indiana, Inc., et al, Indianapolis, Indiana (2005/6).

"Crummy Duopoly" or Vigorous Inter-Modal Competition? The Impact of Cable Franchise Requirements on New Fiber Builds. Phoenix Center Congressional Briefing (July 21, 2005).

Florida Bill HB 1325 and SB 1322 (Municipal Broadband). Testimony before numerous Committees of the Florida House of Representatives (Spring 2005).

Z-Tel Communications, Inc. v. SBC Communications, Inc., Texarkana, Texas (2003).

A Response to Olbeter and Robinson's 'Breaking the Backbone', released by MCI Worldcom (August 1999).

An Economic Analysis of the FCC's Notice of Inquiry on Flat Rate Charges in the Long Distance Industry, filed in CC Docket No. 99-249 (September 1999).

Further Thoughts on Payphone Compensation, filed in CC Docket No. 96-128 (November 1998).

Effective Enforcement of Non-Discriminatory Performance by Incumbent Local Exchange Carriers, with John D. Jackson (filed with New York Public Service Commission, October 1999).

A Review of the Texas Performance Plan, with John D. Jackson filed with the Federal Communications Commission (2000).

Investigation into Pricing of Unbundled Network Elements, Testimony filed before the State of Florida Public Service Commission, Docket No. 990649-TP (2000).

Investigation into Pricing of Unbundled Network Elements, Testimony filed before the State of Florida Public Service Commission, Docket No. 990649-TP (2000).

Investigation into Pricing of Unbundled Network Elements, Testimony filed before the State of New York Public Service Commission, Docket No. 98-C-1357 (2000).

In the Matter of US West Communications, Inc.'s Compliance with Sec 271 of the Telecommunications Act of 1996, Statement before the Arizona Corporation Commission, Docket No. T-00000B-97-0238 (2000).

Performance Measurements for Telecommunications Interconnection, Unbundling and Resale, Testimony before the Georgia Public Service Commission, Docket No. 7892-U (2000).

Investigation and Generic Proceeding on Ameritech Indiana's rates for Interconnection, Service, Unbundled Elements, and Transport and Termination, Declaration and Reply before the Indiana Public Service Commission, Cause No. 40611 (2000 2000).

Inquiry by the Department of Telecommunications and Energy Pursuant to Section 271 of the Telecommunications Act of 1996, Comments filed before the Massachusetts Department of Telecommunications and Energy, Docket No. DTE 99-271 (2000).

Commission Review of Various Submissions of Ameritech Indiana to Show Compliance with Section 271(C) of the Telecommunications Act of 1996, Multiple filings before the Indiana Utility Regulatory Commission (2000).

In the Matter of US West Communications, Inc.'s, Compliance with §271 of the Telecommunications Act of 1996, Comments and studies filed before the Arizona Corporation Commission (2000).

In the Matter of Investigation into US West Communications, Inc.'s Compliance with Certain Wholesale Pricing Requirements for Unbundled Network Elements and Resale Discounts, Docket No.T-00000A-00-0194 (2001).

In the Matter of the Commission Investigation and Generic Proceeding on Ameritech Indiana's Rates for Interconnection, Service, Unbundled Elements, and Transport and Termination Under the Telecommunications Act of 1996 and Related Indiana Statutes, Cause No. 40611-S1 (2001).

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Application by SBC Communications Inc., Southwestern Bell Telephone Company, And Southwestern Bell Communications Services, Inc. d/b/a Southwestern Bell Long Distance Pursuant to Section 271 of the Telecommunications Act of 1996 To Provide In-Region, InterLATA Services In Texas, Federal Communications Commission, CC Docket No. 00-65 (2000)

Joint Application by SBC Communications Inc., Southwestern Bell Telephone Company, and Southwestern Bell Communications Services, Inc. d/b/a Southwestern Bell Long Distance for Provision of In-Region, InterLATA Services in Kansas and Oklahoma, Federal Communications Commission, CC Docket No. 00-217 (2000/2001).

Joint Application by SBC Communications Inc., Southwestern Bell Telephone Company, and Southwestern Bell Communications Services, Inc. d/b/a Southwestern Bell Long Distance Pursuant to Section 271 of the Telecommunications Act of 1996 To Provide In-Region, InterLATA Services in Arkansas and Missouri, Federal Communications Commission, CC Docket No. 01-194 (2001).

Joint Application by BellSouth Corporation, BellSouth Telecommunications, Inc., And BellSouth Long Distance, Inc for Provision of In-Region, InterLATA Services In Georgia and Louisiana, Federal Communications Commission, CC Docket No. 02-35 (2002).

Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, Federal Communications Commission, CC Docket No. 01-338 (2003).

In Through the Back Door: Embedded Cost and the FLC, Working Paper (June 2002).

How Many Days in a Year? Creative Cost Modeling and the Cost to Competition, Working Paper (June 2002).

A Fox in the Hen House: An Evaluation of Bell Company Proposals to Eliminate Their Monopoly Positions in Local Telecommunications, Working Paper, June 2002.

PHOENIX CENTER WORKS (Author/Co-Author):

Policy Papers

“Eroding the Rule of Law: Regulation as Cooperative Bargaining at the FCC,” PHOENIX CENTER POLICY PAPER No. 49 (October 2015).

“The Price Effects of Intra-Brand Competition in the Automobile Industry: An Econometric Analysis,” PHOENIX CENTER POLICY PAPER No. 48 (March 2015).

“An Economic Framework for Retransmission Consent,” PHOENIX CENTER POLICY PAPER No. 47 (December 2013).

“Market Mechanisms and the Efficient Use and Management of Scarce Spectrum Resources,” PHOENIX CENTER POLICY PAPER No. 46 (December 2013).

“Lessons Learned from the U.S. Unbundling Experience,” PHOENIX CENTER POLICY PAPER No. 45 (June 2013).

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"Internet Use and Job Search," PHOENIX CENTER POLICY PAPER No. 39 (January 2010).

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"Flow Through and Competition in the International Message Telephone Service Market," PHOENIX CENTER POLICY PAPER No. 7 (September 2000).

Policy Bulletins

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“Jobs, Jobs, Jobs: Communications Policy and Employment Effects in the Information Sector,” PHOENIX CENTER POLICY BULLETIN No. 25 (October 2010).

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