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Navigant Economics
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EDUCATION

Ph.D., Economics, UNIVERSITY OF CHICAGO, Chicago, IL, 1985
A.B. (summa cum laude), Economics, UNIVERSITY OF CALIFORNIA AT LOS ANGELES, Los Angeles, CA, 1979

CURRENT POSITION

NAVIGANT ECONOMICS, 2010-present
Principal and Managing Director

ACADEMIC AND PROFESSIONAL EXPERIENCE

NORTHWESTERN UNIVERSITY, Communication Systems Strategy and Management Program, School of Communication, Evanston, IL, 2000 - 2016
Adjunct Associate Professor

LECG, LLC Evanston, IL, 1995-2010
Managing Director
Office Director, LECG Evanston

NORTHWESTERN UNIVERSITY, J. L. Kellogg Graduate School of Management, Evanston, IL, 1985–1995
Visiting Assistant Professor of Managerial Economics, 1993-1995
Assistant Professor of Managerial Economics, 1985-1992

HOOVER INSTITUTION at Stanford University, 1992-1993
National Fellow

UNIVERSITY OF CHICAGO, Department of Economics, Chicago, IL, 1983–1984
Instructor

CIVIL AERONAUTICS BOARD, Office of Economic Analysis, Washington, DC,
Summers, 1979 and 1980
Staff Economist

HONORS & AWARDS

Guthman Research Chair, Kellogg Graduate School of Management, Northwestern University, Summer 1994.

Hoover National Fellowship, Hoover Institution, 1992-1993.

Faculty Research Fellow, National Bureau of Economic Research, 1987-1990.

Pepsico Research Chair, Northwestern University, 1990.

Kellogg Research Professorship, Northwestern University, 1989.

National Science Foundation Research Grant, 1987-1988.

Buchanan Chair, Kellogg Graduate School of Management, Northwestern University, 1987-1988.

IBM Chair, Kellogg Graduate School of Management, Northwestern University, 1986-1987.

RESEARCH INTERESTS

Industrial organization, antitrust economics, business strategy, pricing, information industries, network industries, telecommunications policy, theory of the firm, compensation and incentives.

TEACHING

Courses taught: Pricing Strategy; Information, Communication, and Competition (economics of strategy and competition); Intermediate Microeconomic Theory; Managerial Economics (microeconomic theory as applied to business strategy and decision making) at the M.B.A. level, The Economics of Information at the Ph.D. level.

Also qualified to teach: graduate Microeconomic Theory; Industrial Organization and Labor Economics; the Economics of Personnel; Public Finance; Project Evaluation; Applied Game Theory.

PUBLICATIONS AND WORKING PAPERS

“An Empirical Analysis of Regulator Mandates on the Pass Through of Switched Access Fees for In-State Long-Distance Telecommunications in the U.S.,” with David E. Burnstein, Ana Danies, and Gerry Keith, June 19, 2013. Available at SSRN: <http://ssrn.com/abstract=1674082>.

Contributing author, *ABA Section of Antitrust Law, Telecom Antitrust Handbook*, Second Edition, (Chicago: American Bar Association), March 2013.

“The Effects of Legacy Pricing Regulation on Adoption of Broadband Service in the United States,” with Allan T. Ingraham, *Review of Network Economics*, vol. 11, issue 4, 2012.

“Social Welfare Implications of Liability Rules in Major Environmental Damages Cases,” with Francis X. Pampush, *Environmental Litigation Committee Newsletter*, Fall 2011.

“Regulatory Policy and the Reverse Cellophane Fallacy,” with David E. Burnstein, *Journal of Competition Law and Economics* 2010; doi: 10.1093/joclec/nhp033.

“Investment in Next Generation Networks and Wholesale Telecommunications Regulation,” with Robert W. Crandall, November 3, 2008. Available at SSRN: <http://ssrn.com/abstract=1294910>.

“Pricing Principles and Pricing Methodologies for Essential Facilities,” May 2008.

Contributing author, *ABA Section of Antitrust Law, Telecom Antitrust Handbook*, (2005), (Chicago: American Bar Association), 2005.

“The Proper Treatment of Spare Network Capacity in Regulatory Cost Models,” with Ana Danies, May 2005. Available at SSRN http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2133365.

“State Commissions Systematically Have Set UNE Prices Below Their Actual Costs,” with Frank Pampush and E. Gerry Keith, 2003.

“Broadband Adoption in the United States: An Empirical Analysis,” with David E. Burnstein, in *Down to the Wire: Studies in the Diffusion and Regulation of Telecommunications Technologies*, Allan Shampine, ed., (Nova Science Publishers, Hauppauge, NY, 2003).

“Developments in the Theory of Vertical Foreclosure as Applied to Regulated Telecommunications Markets” (March, 2002), Prepared for Presentation at The American Bar Association Section of Antitrust Law, 50th Annual Spring Meeting.

“Modifications at HHIs for Vertical Supply Relationships” with Wenqing Li and James Langenfeld, White Paper submitted to European Commission, February 2000.

“Economic Theories of Tying and Foreclosure Applied—And Not Applied—in *Microsoft*,” with Steven S. Wildman, *Antitrust*, vol. 14, no. 1, 1999, pp.48-52.

“Effecting a Price Squeeze Through Bundled Pricing,” with Steven S. Wildman, in *Competition, Regulation, and Convergence: Current Trends in Telecommunications Policy Research*, Gillett and Vogelsang, eds. (New Jersey: Lawrence Erlbaum Associates, Inc.) 1999, pp. 1-17.

“Worldwide Wait? How the Telecom Act’s Unbundling Requirements Slow the Development of the Network Infrastructure,” with Ken Dunmore and Frank Pampush, *Industrial and Corporate Change*, vol.7, no. 4, 1998, pp. 615-621.

“The Pricing of Customer Access in Telecommunications,” with Steven S. Wildman, *Industrial and Corporate Change*, vol. 5, no. 4, 1996, pp. 1029-1047.

“Bonus and Penalty Schemes as Equilibrium Incentive Devices, With Application to Manufacturing Systems,” with Pau Olivella, *Journal of Law, Economics, and Organization*, 10, Spring 1994, pp. 1-34.

“Diversification as a Strategic Preemptive Weapon,” *Journal of Economics and Management Strategy*, 2, Spring 1993, pp. 41-70.

“Using the Capital Market as a Monitor: Corporate Spin-offs in an Agency Framework,” *RAND Journal of Economics*, 22, Winter 1991, pp. 505-518.

“Firm Organization and the Economic Approach to Personnel Management,” *American Economic Review*, vol. 80, no. 2, May 1990, pp. 23-27.

“The Introduction of New Products,” with Edward P. Lazear, *American Economic Review*, vol. 80, no. 2, May 1990, pp. 421-426.

“Ability, Moral Hazard, Firm Size, and Diversification,” *RAND Journal of Economics*, 19, Spring 1988, pp. 72-87.

“Worker Reputation and Productivity Incentives,” *Journal of Labor Economics*, vol. 5, no. 4, October 1987, part 2, pp. S87-S106.

“The Role of Managerial Ability and Moral Hazard in the Determination of Firm Size, Growth and Diversification,” Ph.D. Dissertation, University of Chicago, August 1985.

REPRESENTATIVE PRESENTATIONS

“Economic Fundamentals: Vertical and Coordinated Effects in Mergers,” ABA Section of Antitrust Law, Fundamentals of Antitrust Economics Series, Washington D.C., May 2016.

Panelist, “Economic Fundamentals: Market Power,” ABA Spring Meeting, Washington D.C., April 2016.

Moderator, “Effective Cross-Examination of the Expert Witness: Practical Tips and Video Clips,” ABA Annual Meeting, Chicago, July 2015.

Moderator, “The Science of Persuasion: Practical Insights from Research on Expert Witness Effectiveness and Jury Decision-Making,” ABA Section of Litigation Annual Conference, New Orleans, April 2015.

Panelist, “How to Manage Conversations with Expert Witnesses,” ABA Section of Litigation, Environmental, Mass Torts, & Products Liability Litigation Committees’ Joint CLE Seminar, Avon, Colorado, January 30, 2014.

“The Effects of Legacy Pricing Regulation on Adoption of Broadband Service in the United States,” Federal Communications Commission, Washington, D.C., June 11, 2013.

Panelist, “A Primer: Getting the Most Out of Your Experts — Do’s and Don’ts in the Use of Expert Witnesses: Learning from the Experts,” ABA Section of Litigation Annual Conference, Chicago, Illinois, April 26, 2013.

“An Empirical Analysis of Regulator Mandates on the Pass Through of Switched Access Fees for In-State Long-Distance Telecommunications in the U.S.,” with David E.

Burnstein, Ana Danies, and Gerry Keith, Wesleyan University, Middletown, Connecticut, March 27, 2013.

“The Effects of Legacy Pricing Regulation on Adoption of Broadband Service in the United States,” with Allan Ingraham, The 40th Research Conference on Communication, Information and Internet Policy (TPRC), September 22, 2012.

Panelist, “Two Decades of Daubert: Junk Science Replaced by Junk Rulings?” ABA Section of Litigation Annual Conference, Washington, DC, April 20, 2012.

“The Effects of Legacy Pricing Regulation on Adoption of Broadband Service in the United States,” with Allan Ingraham, New America Foundation, workshop on Defining and Measuring Meaningful Broadband Adoption, April 11, 2012, Washington, DC.

“Social Welfare Implications of Liability Rules in Major Environmental Damages Cases,” with Francis X. Pampush, American Bar Association Sections of Litigation and Criminal Justice Joint Annual Conference, April 15, 2011, Miami, Florida.

“Consumer Benefits of Intrastate Access Rate Reform in Minnesota,” Center for Science, Technology and Public Policy, Humphrey School of Public Affairs, University of Minnesota, January 26, 2011.

“An Empirical Analysis of Regulator Mandates on the Pass Through of Switched Access Fees for In-State Long-Distance Telecommunications in the U.S.,” with David E. Burnstein, Ana Danies, and Gerry Keith, The 38th Research Conference on Communication, Information and Internet Policy (Telecommunications Policy Research Conference), October 3, 2010, George Mason University Law School, Arlington, Virginia.

“Pricing Principles and Pricing Methodologies for Essential Facilities,” The 36th Research Conference on Communication, Information and Internet Policy (TPRC), September 27, 2008.

“Regulatory Policy and the Reverse Cellophane Fallacy,” with David E. Burnstein, 17th Biennial International Telecommunications Society Conference, Montréal, Québec, Canada, June 24-27, 2008.

“The Use of Economic Analysis in ‘Industry Expert’ Testimony,” CLE course, XPRT Forum, March 7, 2008.

Presentations to the New Jersey Board of Public Utilities and to the New Jersey Legislature’s Telecommunications Utilities Committee regarding the economic principles for a forward-looking regulatory agenda in light of the facts of competition nationwide and in New Jersey, and the costs of regulation, October – November 2006.

“The Interaction of Regulation with Economics and Financial Analysis in Litigation, Policy, and Strategy Consulting,” CLE course, XPRT Forum, October 7, 2006.

“Comments on ‘Economic Analysis in FCC Merger Proceedings,’” Conference on Economic Analysis and FCC Decisionmaking, presented by the Federal Communications Bar Association (FCBA) and Stanford Institute for Economic Policy Research (SIEPR), Washington D.C., March 15, 2006.

“Economic Principles for Consumer Protection Rules,” *Pri Telecom / Tech Briefing*, Santa Clara, California, October 11, 2005.

“The Proper Treatment of Spare Network Capacity in Regulatory Cost Models,” Presentation at the Advanced Workshop in Regulation and Competition, Center for Research in Regulated Industries, Skytop, Pennsylvania, May 2005.

“Telecommunications Regulation: What’s Obsolete? What Will Become Obsolete?” Presentation at the State and City Telecom Reform Conference, Heartland Institute, Chicago, Illinois, December 2004.

“Trends in Telecommunications Demand & Supply,” Presentation at the 46th Annual NARUC Regulatory Studies Program, Michigan State University, August 2004.

“The Economic Costs of Proposed Wireless Regulations in California,” Presentation to Commissioners Brown and Kennedy, California Public Utilities Commission, San Francisco, California, April 2004.

“The Economics of UNE Pricing: Presentation to Staff,” Ex parte presentation to the staff of the FCC, in FCC WC Docket No. 03-173: Review of the Commission’s Rules Regarding the Pricing of Unbundled Network Elements and the Resale of Service by Incumbent Local Exchange Carriers, March 2004.

“The High Cost of Proposed New Wireless Regulations,” Presentation to the Pacific Research Institute conference “Regulating Wireless in California: Bill of Rights... or Wrongs?,” San Francisco, April 2003.

“The TELRIC Showdown,” Panelist, NARUC Staff Subcommittee on Telecommunications, 2002 Annual Convention, Chicago, Illinois, November 2002.

“Economic Principles for Efficient Pricing of Municipal Rights-of-Way,” National Association of Telecommunications Officers and Advisors (NATOA), Chicago, Illinois, September 2002.

“Trends in Voice and Broadband Competition in Telecommunications Markets: Markets, Strategies, and Regulation,” 82nd Annual Convention of the Indiana Telecommunications Association, Lexington, Kentucky, June 2002.

“Broadband Deployment in the United States,” Emerging Opportunities in Broadband Symposium, Northwestern University, Evanston, Illinois, December 2001.

“Local Competition in Illinois,” Illinois Telecommunications Symposium, Northwestern University, Evanston, Illinois, December 2000.

“Licensing and Access to Innovations in Telecommunications and Information Services,” Telecommunications Policy Research Conference, Alexandria, Virginia, September 2000.

“Effecting a Price Squeeze Through Bundled Pricing,” Federal Communications Commission, Washington, D.C., May 1999.

“Competitive and Strategic Use of Optional Calling Plans and Volume Pricing Plans,” The Institute for International Research Conference for Competitive Pricing of Telecommunications Services, Chicago, Illinois, July 1998.

“Effecting a Price Squeeze Through Bundled Pricing,” Consortium for Research in Telecommunications Policy Conference, University of Michigan, Ann Arbor, Michigan, June 1998.

“The Pricing of Customer Access in Telecommunications,” Conference on Public Policy and Corporate Strategy for the Information Economy, Evanston, Illinois, May 1996.

“Diversification as a Strategic Preemptive Weapon,” University of Iowa, Iowa City, Iowa, February 1994.

“Diversification as a Strategic Preemptive Weapon,” University of Buffalo, Buffalo, New York, February 1994.

“Diversification as a Strategic Preemptive Weapon,” University of Southern California, Los Angeles, California, December 1993.

“Strategic Pricing,” Winter Meetings of the Econometric Society, Discussant, Anaheim, California, December 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Michigan State University, Lansing, Michigan, November 1993.

“Diversification as a Strategic Preemptive Weapon,” Rutgers University, New Brunswick, New Jersey, November 1993.

“Diversification as a Strategic Preemptive Weapon,” University of California at Santa Cruz, Santa Cruz, California, November 1993.

“Diversification as a Strategic Preemptive Weapon,” Graduate School of Business, Stanford University, Stanford, California, November 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Purdue University, West Lafayette, Indiana, September 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Summer Meetings of the Econometric Society, Boston University, Boston, Massachusetts, June 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” University of California, Department of Economics, Berkeley, California, May 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Stanford University, Graduate School of Business, Stanford, California, May 1993.

“Diversification as a Strategic Preemptive Weapon,” Stanford University, Graduate School of Business, Stanford, California, April 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Hoover Institution, Stanford, California, April 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” University of California, Graduate School of Business, Berkeley, California, February 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Stanford University, Department of Economics, Stanford, California, February 1993.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” Hoover Institution, Stanford, California, January 1993.

“Pricing Strategies,” Session Discussant, 1992 North American Winter Meeting of The Econometric Society, Anaheim, California, January 1992.

“Diversification as a Strategic Preemptive Weapon,” University of Toronto, Toronto, Canada, November 1991.

“Diversification as a Strategic Preemptive Weapon,” Queen’s University, Kingston, Ontario, Canada, November 1991.

“Bonuses and Penalties as Equilibrium Incentive Devices, with Application to Manufacturing Systems,” University of Chicago, Chicago, Illinois, June 1991.

“The Timing of Entry into New Markets,” Summer Meetings of the Econometric Society, University of Pennsylvania, Philadelphia, Pennsylvania, June 1991.

“Innovation, Imitation, Productive Differentiation, and the Value of Information in New Markets,” University of Chicago, Chicago, Illinois, April 1991.

“Bonuses and Penalties as Equilibrium Incentive Devices, with Application to Manufacturing Systems,” Winter Meetings of the Econometric Society, Washington, D.C., December 1990.

“Corporate Spin-offs in an Agency Framework,” University of Washington, Seattle, Washington, October 1990.

“The Timing of Entry Into New Markets,” University of British Columbia, Vancouver, British Columbia, October 1990.

“Corporate Spin-offs in an Agency Framework,” Texas A&M University, College Station, Texas, April 1990.

“Firm Organization and the Economic Approach to Personnel Management,” Winter Meetings of the American Economic Association, New York, New York, December 1989.

“Corporate Spin-offs in an Agency Framework,” Western Finance Association Meetings, Seattle, Washington, June 1989.

“Corporate Spin-offs in an Agency Framework,” University of Rochester, Rochester, New York, May 1989.

“Corporate Spin-offs in an Agency Framework,” North American Summer Meetings of the Econometric Society, Minneapolis, Minnesota, June 1988.

“Competition, Relativism, and Market Choice,” North American Summer Meetings of the Econometric Society, Berkeley, California, June 1987.

“Competition, Relativism, and Market Choice,” University of Chicago, Chicago, Illinois, April 1987.

“Rate Reform and Competition in Electric Power,” Discussant, Conference on Competitive Issues in Electric Power, Northwestern University, Evanston, Illinois, March 1987.

“Worker Reputation and Productivity Incentives,” New Economics of Personnel Conference, Arizona State University, Tempe, Arizona, April 1986.

“Ability, Moral Hazard, and Firm Diversification,” Various Universities, 1985, 1994, including Yale University, University of Rochester, Stanford University, University of Minnesota, California Institute of Technology, Duke University, Northwestern University, Brown University, Harvard University, University of California - Los Angeles, University of Pennsylvania.

ACADEMIC JOURNAL REFEREEING

Dr. Aron has served as a referee for *The Rand Journal of Economics*, *the Journal of Political Economy*, *the Journal of Finance*, *the American Economic Review*, *the Quarterly Journal of Economics*, *the Journal of Industrial Economics*, *the Journal of Economics and Business*, *the Journal of Economic Theory*, *the Journal of Labor Economics*, *the Review of Industrial Organization*, *the European Economic Review*, *the Journal of Economics and Management Strategy*, *the International Review of Economics and Business*, *the Quarterly Review of Economics and Business*, *Management Science*, *the Journal of Public Economics*, *the Journal of Institutional and Theoretical Economics*, and the National Science Foundation.

SELECTED TESTIMONY AND OTHER ENGAGEMENTS (2006-present)

Deposition testimony in litigation before the United States District Court, Middle District of Florida, Jacksonville Division, in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding class certification, June 2017.

Trial testimony in litigation before the United States District Court for the Western District of Washington at Seattle, on unjust enrichment and reasonable royalty damages related to a claim of theft of trade secrets, May 2017.

Deposition testimony before the United States District Court, Northern District of California, on price fixing litigation in the technology manufacturing industry, March 2017.

Deposition testimony before the United States District Court for the Southern District of New York, on damages in telecommunications litigation pertaining to intercarrier traffic, February 2017.

Trial testimony at jury trial before the United States District Court, District of North Carolina, Durham Division, in class action matter related to the Telephone Consumer Protection Act (TCPA), regarding data analytics, January 2017.

Deposition testimony in litigation before the United States District Court for the Western District of Washington at Seattle, on unjust enrichment and reasonable royalty damages related to a claim of theft of trade secrets, September 2016.

Deposition testimony in litigation before the United States District Court for the Northern District of Texas, Dallas Division, on damages in a contract dispute related to intercarrier compensation, August 2016.

“An Analysis of the Economic Impact of Increasing the Price of Electricity in Puerto Rico,” co-authored with Dr. Justin Lenzo, a macroeconomic analysis using a dynamic general equilibrium regional model of the anticipated effects of electric utility price increases and debt restructuring on the economy of Puerto Rico, August 2016.

Econometric and market analysis of diversion and potential competitive effects of challenged (“second request”) global merger in a consumer products industry, 2016.

Hearing testimony and prefiled written expert testimony before the California Public Utilities Commission in matter regarding competition among telecommunications providers in California, March, June, and July 2016.

Deposition testimony in class action litigation before the Superior Court of the State of California for the County of Alameda, on damages related to cell phone early termination fees, March 2016.

Deposition testimony in litigation before the United States District Court for the Northern District of Illinois, on market definition and antitrust damages in a Walker Process antitrust counterclaim to a patent infringement claim, March 2016.

Econometric and market analysis of diversion and potential competitive effects of an acquisition in a consumer products industry, 2015.

Econometric and market analysis of diversion and potential competitive effects of an acquisition in a consumer products industry, 2015.

Deposition testimony in litigation before the Chancery Division of the Circuit Court of Cook County, Illinois in a class action matter alleging unfair business practices relating to sale and marketing of gas-pipe repair warranty services, on damages, February 2016.

Deposition testimony in litigation before the United States District Court for the Northern District of Illinois in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding class certification, January 2016.

Declaration of Debra J. Aron before the California Public Utilities Commission in matter of Frontier Communications Corporation's proposed acquisition of Verizon California Inc.'s assets in California, August 2015.

Deposition testimony in related matters before the United States District Court for the Southern District of California before the United States District Court for the Northern District of Illinois (combined deposition) in putative class actions related to the Telephone Consumer Protection Act (TCPA), regarding class certification, June, 2015.

Trial testimony at jury trial in litigation before the Court of Common Pleas, Allegheny County, Pennsylvania, regarding damages in a tortious interference matter, May 2015.

Expert report in matter before the United States District Court for the Middle District of North Carolina in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding class certification, March 2015.

Deposition and trial testimony at jury trial in litigation before the United States District Court for the District of Delaware, on damages in a patent infringement matter, November 2014 and February 2015.

Deposition testimony in a matter before the Court of Chancery of the State of Delaware regarding shareholder dispute arising out of a merger, December 2014.

Testimony in arbitration regarding compensation for costs of intellectual property associated with regulatory compliance under the Federal Insecticide, Fungicide, and Rodenticide Act, October 2014.

"The Price of Beer in Ontario and Quebec," May 2014; "Beer Segmentation in Ontario and Quebec," October 2014; "The Trade-Off Between Price and Proximity of Beer Retailers for Ontarians," October 2014; and "The Pass-Through of Taxes in the Prices of Beer in Ontario and Quebec," October, 2014, white papers presented to the Canadian Competition Bureau in relation to a policy undertaking in consideration of revisions to retail regulations for beer sales in Ontario; oral presentations to the CCB on this research, 2014.

Deposition and trial testimony at jury trial in litigation before the United States District Court for the District of Delaware, on damages in a patent infringement matter, July 2014 and October 2014.

Prefiled written expert testimony before the California Public Utilities Commission in matter regarding regulation of residential basic local service rates of a telecommunications provider, August 2014 and October 2014.

Deposition testimony in litigation before the United States District Court for the Eastern District of Wisconsin in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding class certification, September 2014.

Deposition testimony in litigation before the United States District Court for the Northern District of Illinois, Eastern Division in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding the availability of data on telecommunications customers, July 2014.

Deposition testimony in litigation before the United States District Court, Southern District of New York, In re: Methyl Tertiary Butyl Ether Products Liability Litigation, Commonwealth of Puerto Rico, et al. v. Shell Oil Co., et al., regarding damages, May 2014.

Deposition testimony in litigation before the United States District Court for the Northern District of Ohio, Western Division, in price fixing litigation in the polyurethane foam industry, regarding damages, April 2014 and September 2014.

Deposition and hearing testimony in litigation before the United States District Court, District of Colorado, in putative class action matter related to the Telephone Consumer Protection Act (TCPA), regarding class certification, September 2013 and March 2014.

Deposition testimony in litigation before the United States District Court, Southern District of New York, In re: Methyl Tertiary Butyl Ether (“MTBE”) Products Liability Litigation, New Jersey Dep’t of Env’tl. Prot., et al. v. Atlantic Richfield Co., et al., regarding “economic feasibility” of alternative fuels, May 2013.

Prefiled written testimony before the Regulatory Commission of Alaska on the public welfare and public policy implications of “carrier of last resort” obligations for telecommunications providers, in matter pertaining to petition by a long distance provider to be relieved of its carrier of last resort obligations in certain areas of Alaska, January and April 2013.

Expert report and rebuttal expert report in matter before the Western District of North Carolina Charlotte Division in fraudulent conveyance matter in the telecommunications industry, January 2013.

Expert report on damages in matter before Superior Court for the State of Alaska, in contract dispute regarding large marine engines, November 2012.

Deposition testimony in ERISA litigation before the United States District Court for the District of Kansas, regarding the competitive history and landscape of the communications marketplace and business context of cost reductions, November 2011.

Deposition testimony on damages estimation in litigation before the United States District Court, Northern District of Texas, Dallas Division, regarding access charges for long distance calls made using calling cards, November 2011.

Testimony before the North Carolina Utilities Commission regarding the regulatory history of the US telecommunications switched access regime and the effects on consumers and competition of reducing intra-industry subsidies via reform of interconnection prices, October 2011.

Prefiled testimony in regulatory proceeding before the Kentucky Public Service Commission regarding intercarrier compensation in the telecommunications industry, September 2011.

Consulting expert regarding damages in potential litigation alleging misleading advertising of prices for telecommunications services, June 2011.

Consulting expert regarding costs relevant to early termination fees in consumer term contracts, April 2011.

Testimony before the Utilities Committee of the Kansas Legislature regarding the status of competition in telecommunications markets in Kansas, February 2011.

Testimony before the Telecommunications Committee of the Legislature of the state of Washington regarding the consumer benefits and competitive effects of switched access reform, February 2011.

Consulting expert in consumer class action matter involving the markets for mobile wireless handsets, 2010.

Presentation to the Access Reform Working Group of North Carolina (industry collaborative group consisting of industry members, Public Staff, and the Attorney General, assigned by the NC Utilities Commission to seek consensus on access reform) regarding the consumer benefits of reducing intra-industry subsidies via reform of inter-network prices, September 2010.

Expert testimony before the Arizona Corporation Commission, the New Jersey Board of Public Utilities, and the Kentucky Public Service Commission regarding the regulatory history of the US switched access regime and the effects on consumers and competition of reducing intra-industry subsidies via reform of interconnection prices, 2009-2010.

Deposition testimony on damages in litigation before the United States District Court, Western District of Texas, Austin Division, regarding intercarrier "access fees" for exchange of Internet Protocol telecommunications traffic, October 2009.

Expert testimony on damages before the Circuit Court for the Third Judicial Circuit, Madison County, Illinois in class action matter pertaining to allegations that a statutory refund required of defendant company was improperly distributed, October 2009.

Expert testimony before the New Jersey Board of Public Utilities regarding intrastate switched access charges and retail rate rebalancing, September 2009.

Advice and presentation to executives of a large Israeli telecommunications company regarding the Israeli regulatory regime, unbundling obligations, pricing, costing, and competitive reform, February 2009.

Deposition testimony in a matter before the Delaware Circuit Court regarding a contractual dispute, on the issue of irreparable harm pertaining to alleged violation of exclusive territory provisions, November 2008.

Written expert evidence before the Canadian Radio-television and Telecommunications Commission in the matter of an application to expand the obligations of regulated companies for the provision of certain broadband services; regarding the effects of the requested unbundling obligations on competition, investment, and social welfare in Canada, July 2008.

Deposition and jury trial testimony on causation and damages in a matter before the Superior Court of the State of California, County of Los Angeles on the telecommunications business environment and viability of particular telecommunications business models in the late 1990s/early 2000s in a matter regarding an alleged breach of contract in the mobile satellite services industry, April/July 2008.

Written expert declarations before the California Public Utilities Commission in the matter of a rulemaking regarding the anticipated effects on investment and social welfare of proposed modifications to regulations governing the use and retirement of facilities of regulated companies, January 2008.

Analysis of US and global subsea telecommunications fiber capacity investments and swap arrangements during the late 1990s and early 2000s, in a litigation matter alleging failure of defendant to disclose material information to plaintiffs (case settled before expert disclosure), 2008.

Written testimony before the Public Utility Commission of Texas regarding the regulatory philosophy of universal service policy, and competitive implications of proposed universal service cross-subsidy and distribution mechanisms, November 2007.

Expert evidence before the Canadian Radio-television and Telecommunications Commission regarding the economically appropriate methodology for pricing wholesale telecommunications services and essential facilities, October 2007.

Expert testimony before the Indiana Utility Regulatory Commission regarding the competitive effects on a new entrant in the video services marketplace of disclosure of highly detailed deployment data, August 2007.

Deposition testimony in a matter before the Oklahoma Court of Tax Review regarding the market factors affecting valuation of certain corporate assets during the relevant tax year of the dispute, June 2007.

Written evidence before the Canadian Radio-television and Telecommunications Commission regarding the proper economic principles that should govern determination of regulatory costs, and the effects of regulatory cost determination on economic efficiency and competition, May 2007.

Expert testimony before the New Jersey Board of Public Utilities regarding its review of telecommunications regulations and proposal to establish new regulations on incumbent and competitive wireline carriers, March 2007.

Damages analysis as consulting expert in an international arbitration matter regarding disputed availability of and access to subsea and terrestrial telecommunications fiber capacity from mid 1990s through mid-2000s, with focus in Asia and Europe, 2007.

Expert testimony before the Michigan Public Service Commission regarding the competitive effects of certain regulatory obligations and volume pricing rules, November 2006.

Damages analysis in price fixing matter in the ready-mix concrete industry (matter settled before report submitted), 2006.

Preliminary Expert Report of Debra J. Aron, “The U.S. Long-haul Fiber Optic Network Industry: 1996-2001,” in a matter in the Superior Court of the state of California involving disputed investment in long haul capacity in the U.S., June 2006.

Expert testimony before the Kentucky Public Service Commission, Tennessee Regulatory Authority, and Mississippi Public Service Commission regarding the competitive effects of the proposed AT&T acquisition of BellSouth, June 2006.

Deposition testimony in a matter before the Oklahoma Court of Tax Review regarding the status of competition affecting defendant company and the likely economic effect of such competition on the forward looking value of company assets, March 2006.

Expert testimony before the California Public Utilities Commission regarding the competitive landscape in California and the desirability of establishing a Uniform Regulatory Framework for the telecommunications industry in the state of California, February 2006.

Deposition testimony and trial testimony in the Court of Chancery in the state of Delaware in and for New Castle County and in Circuit Court of Cook County, Illinois County Department, Chancery Division, regarding the possibility of “irreparable harm” to Sprint Nextel’s wireless affiliates in connection with Sprint’s acquisition of Nextel Corporation, November 2005 – July 2006.

PROFESSIONAL ORGANIZATIONS

Member, American Economic Association

Member, Econometric Society

Associate Member, American Bar Association

Past Member, Telecommunications Policy Research Conference Program Committee

September 2017