

## Curriculum Vitae of Hal J. Singer

Econ One Research  
Suite 510 805 15th St., N.W.  
Washington, D.C. 20005  
Phone: 202.312.3065  
hsinger@econone.com

## Education

Ph.D., The John Hopkins University, 1999; M.A. 1996, Economics

B.S., Tulane University, *magna cum laude*, 1994, Economics. Dean's Honor Scholar (full academic scholarship). Senior Scholar Prize in Economics.

## Current Positions

ECON ONE, Washington, D.C.: Managing Director 2018-present.

GEORGETOWN UNIVERSITY, MCDONOUGH SCHOOL OF BUSINESS, Washington, D.C.: Adjunct Professor 2010, 2014, 2016, 2018, 2019, 2020.

GEORGE WASHINGTON UNIVERSITY, SCHOOL OF PUBLIC POLICY, GEORGE WASHINGTON INSTITUTE FOR PUBLIC POLICY, Washington, D.C.: Senior Fellow 2016-present.

## Employment History

ECONOMISTS INCORPORATED, Washington, D.C.: Principal 2014-2018.

NAVIGANT ECONOMICS, Washington, D.C.: Managing Director, 2010-2013.

EMPIRIS, L.L.C., Washington, D.C.: Managing Partner and President, 2008-2010.

CRITERION ECONOMICS, L.L.C., Washington, D.C.: President, 2004-2008. Senior Vice President, 1999-2004.

LECG, INC., Washington, D.C.: Senior Economist, 1998-1999.

U.S. SECURITIES AND EXCHANGE COMMISSION, OFFICE OF ECONOMIC ANALYSIS, Washington, D.C.: Staff Economist, 1997-1998.

THE JOHNS HOPKINS UNIVERSITY, ECONOMICS DEPARTMENT, Baltimore: Teaching Assistant, 1996-1998.

## Honors

Honoree, Outstanding Antitrust Litigation Achievement in Economics, American Antitrust Institute, *In re Lidoderm Antitrust Litigation*, Oct. 9, 2018.

Finalist, Outstanding Antitrust Litigation Achievement in Economics, American Antitrust Institute, *Tennis Channel v. Comcast*, Dec. 4, 2013.

## Authored Books and Book Chapters

*Do Municipal Broadband Networks Stimulate or Crowd Out Private Investment? An Empirical Analysis of Employment Effects*, in THE IMPACT OF THE INTERNET ON JOBS (Lorenzo Pupillo, ed. Palgrave 2017).

THE NEED FOR SPEED: A NEW FRAMEWORK FOR TELECOMMUNICATIONS POLICY FOR THE 21ST CENTURY, co-authored with Robert Litan (Brookings Press 2013).

*Net Neutrality Is Bad Broadband Regulation*, co-authored with Robert Litan, in THE ECONOMISTS' VOICE 2.0: THE FINANCIAL CRISIS, HEALTH CARE REFORM AND MORE (Aaron Edlin and Joseph Stiglitz, eds., Columbia University Press 2012).

*Valuing Life Settlements as a Real Option*, co-authored with Joseph R. Mason, in LONGEVITY TRADING AND LIFE SETTLEMENTS (Vishaal Bhuyan ed., John Wiley & Sons 2009).

*An Antitrust Analysis of the World Trade Organization's Decision in the U.S.-Mexico Arbitration on Telecommunications Services*, co-authored with J. Gregory Sidak, in HANDBOOK OF TRANS-ATLANTIC ANTITRUST (Philip Marsden, ed. Edward Elgar 2006).

BROADBAND IN EUROPE: HOW BRUSSELS CAN WIRE THE INFORMATION SOCIETY, co-authored with Dan Maldoom, Richard Marsden and J. Gregory Sidak (Kluwer/Springer Press 2005).

*Are Vertically Integrated DSL Providers Squeezing Unaffiliated ISPs (and Should We Care)?*, co-authored with Robert W. Crandall, in ACCESS PRICING: THEORY,

PRACTICE AND EMPIRICAL EVIDENCE (Justus Haucap and Ralf Dewenter eds., Elsevier Press 2005).

### Journal Articles

*Competing Approaches to Antitrust: An Application in the Payment Card Industry*, 27(3) GEORGE MASON LAW REVIEW (2020), co-authored with Kevin Caves.

*Understanding the Economics in the Dispute Between the Writers' Guild of America and the Big Four Talent Agencies*, COMPETITION POLICY INTERNATIONAL ANTITRUST CHRONICLE (2020), co-authored with Ted Tatos.

*Antitrust Out of Focus: The FTC's Myopic Pursuit of 1-800 Contacts' Trademark Settlements*, ANTITRUST SOURCE (2019), co-authored with Geoff Manne and Josh Wright.

*Countervailing Coordination Rights in the News Sector Are Good for the Public (A Response to Professor Yun)*, COMPETITION POLICY INTERNATIONAL ANTITRUST CHRONICLE (2019), co-authored with Sanjukta Paul.

*When the Econometrician Shrugged: Identifying and Plugging Gaps in the Consumer Welfare Standard*, 26 GEORGE MASON LAW REVIEW (2019), co-authored with Kevin Caves.

*Applied Econometrics: When Can an Omitted Variable Invalidate a Regression?*, ANTITRUST SOURCE (2017), co-authored with Kevin Caves.

*Paid Prioritization and Zero Rating: Why Antitrust Cannot Reach the Part of Net Neutrality Everyone Is Concerned About*, ANTITRUST SOURCE (2017).

*The Curious Absence of Economic Analysis at the Federal Communications Commission: An Agency in Search of a Mission*, INTERNATIONAL JOURNAL OF COMMUNICATIONS (2017), co-authored with Gerald Faulhaber and Augustus Urschel.

*On the Utility of Surrogates for Rule of Reason Cases*, COMPETITION POLICY INTERNATIONAL ANTITRUST CHRONICLE (2015), co-authored with Kevin Caves.

*Analyzing High-Tech Employee: The Dos and Don'ts of Proving (and Disproving) Classwide Antitrust Impact in Wage Suppression Cases*, ANTITRUST SOURCE (2015), co-authored with Kevin Caves.

*Econometric Tests for Analyzing Common Impact*, 26 RESEARCH IN LAW AND ECONOMICS (2014), co-authored with Kevin Caves.

*Life After Comcast: The Economist's Obligation to Decompose Damages Across Theories of Harm*, ANTITRUST (Spring 2014), co-authored with Kevin Caves.

*Is the U.S. Government's Internet Policy Broken?*, 5 POLICY AND INTERNET (2013), co-authored with Robert Hahn.

*Avoiding Rent-Seeking in Secondary Market Spectrum Transactions*, 65 FEDERAL COMMUNICATIONS LAW JOURNAL (2013), co-authored with Jeffrey Eisenach.

*Vertical Integration in Multichannel Television Markets: A Study of Regional Sports Networks*, 12(1) REVIEW OF NETWORK ECONOMICS (2013), co-authored with Kevin Caves and Chris Holt.

*Assessing Bundled and Share-Based Loyalty Rebates: Application to the Pharmaceutical Industry*, 8(4) JOURNAL OF COMPETITION LAW AND ECONOMICS (2012), co-authored with Kevin Caves.

*Lessons from Kahneman's Thinking Fast and Slow: Does Behavioral Economics Have a Role in Antitrust Analysis?*, ANTITRUST SOURCE (2012), co-authored with Andrew Card.

*Assessing Competition in U.S. Wireless Markets: Review of the FCC's Competition Reports*, 64 FEDERAL COMMUNICATIONS LAW JOURNAL (2012), co-authored with Gerald Faulhaber and Robert Hahn.

*An Empirical Analysis of Aftermarket Transactions by Hospitals*, 28 JOURNAL OF CONTEMPORARY HEALTH LAW AND POLICY (2011), co-authored with Robert Litan and Anna Birkenbach.

*Economic Evidence of Common Impact for Class Certification in Antitrust Cases: A Two-Step Analysis*, ANTITRUST (Summer 2011).

*Addressing the Next Wave of Internet Regulation: Toward a Workable Principle for Nondiscrimination*, 4 REGULATION & GOVERNANCE (2010), co-authored with Robert Hahn and Robert Litan.

*Class Certification in Antitrust Cases: An Economic Framework*, 17 GEORGE MASON LAW REVIEW (2010), co-authored with Robert Kulick.

*The Economic Impact of Eliminating Preemption of State Consumer Protection Laws*, 12 UNIVERSITY OF PENNSYLVANIA JOURNAL OF BUSINESS LAW 781 (2010), co-authored with Joseph R. Mason and Robert B. Kulick.

*Net Neutrality Is Bad Broadband Regulation*, THE ECONOMISTS' VOICE, Sept. 2010, co-authored with Robert Litan.

*Why the iPhone Won't Last Forever and What the Government Should Do to Promote its Successor*, 8 JOURNAL ON TELECOMMUNICATIONS AND HIGH TECHNOLOGY LAW 313 (2010), co-authored with Robert W. Hahn.

*What Does an Economist Have to Say About the Calculation of Reasonable Royalties?*, 14 INTELLECTUAL PROPERTY LAW BULLETIN 7 (2010), co-authored with Kyle Smith.

*Is Greater Price Transparency Needed in the Medical Device Industry?*, HEALTH AFFAIRS (2008), co-authored with Robert W. Hahn and Keith Klovers.

*Evaluating Market Power with Two-Sided Demand and Preemptive Offers to Dissipate Monopoly Rent*, 4 JOURNAL OF COMPETITION LAW & ECONOMICS (2008), co-authored with J. Gregory Sidak.

*Assessing Bias in Patent Infringement Cases: A Review of International Trade Commission Decisions*, 21 HARVARD JOURNAL OF LAW AND TECHNOLOGY (2008), co-authored with Robert W. Hahn.

*The Effect of Incumbent Bidding in Set-Aside Auctions: An Analysis of Prices in the Closed and Open Segments of FCC Auction 35*, 32 TELECOMMUNICATIONS POLICY JOURNAL (2008), co-authored with Peter Cramton and Allan Inghram.

*A Real-Option Approach to Valuing Life Settlement Transactions*, 23 JOURNAL OF FINANCIAL TRANSFORMATION (2008), co-authored with Joseph R. Mason.

*The Economics of Wireless Net Neutrality*, 3 JOURNAL OF COMPETITION LAW AND ECONOMICS 399 (2007), co-authored with Robert W. Hahn and Robert E Litan.

*Vertical Foreclosure in Video Programming Markets: Implication for Cable Operators*, 3 REVIEW OF NETWORK ECONOMICS 348 (2007), co-authored with J. Gregory Sidak.

*The Unintended Consequences of Net Neutrality*, 5 JOURNAL ON TELECOMMUNICATIONS AND HIGH TECH LAW 533 (2007), co-authored with Robert E. Litan.

*Does Video Delivered Over a Telephone Network Require a Cable Franchise?*, 59 FEDERAL COMMUNICATIONS LAW JOURNAL 251 (2007), co-authored with Robert W. Crandall and J. Gregory Sidak.

*The Competitive Effects of a Cable Television Operator's Refusal to Carry DSL Advertising*, 2 JOURNAL OF COMPETITION LAW AND ECONOMICS 301 (2006).

*Überregulation without Economics: The World Trade Organization's Decision in the U.S.-Mexico Arbitration on Telecommunications Services*, 57 FEDERAL COMMUNICATIONS LAW JOURNAL 1 (2004), co-authored with J. Gregory Sidak.

*The Secondary Market for Life Insurance Policies: Uncovering Life Insurance's "Hidden" Value*, 6 MARQUETTE ELDER'S ADVISOR 95 (2004), co-authored with Neil A. Doherty and Brian A. O'Dea.

*Do Unbundling Policies Discourage CLEC Facilities-Based Investment?*, 4 TOPICS IN ECONOMIC ANALYSIS AND POLICY (2004), co-authored with Robert W. Crandall and Allan T. Ingraham.

*Foreign Investment Restrictions as Industrial Policy*, 3 CANADIAN JOURNAL OF LAW AND TECHNOLOGY 19 (2004), co-authored with Robert W. Crandall.

*Regulating the Secondary Market for Life Insurance Policies*, 21 JOURNAL OF INSURANCE REGULATION 63 (2003), co-authored with Neil A. Doherty.

*Interim Pricing of Local Loop Unbundling in Ireland: Epilogue*, 4 JOURNAL OF NETWORK INDUSTRIES 119 (2003), co-authored with J. Gregory Sidak.

*The Benefits of a Secondary Market for Life Insurance*, 38 REAL PROPERTY, PROBATE AND TRUST JOURNAL 449 (2003), co-authored with Neil A. Doherty.

*The Empirical Case Against Asymmetric Regulation of Broadband Internet Access*, 17 BERKELEY TECHNOLOGY LAW JOURNAL 954 (2002), co-authored with Robert W. Crandall and J. Gregory Sidak.

*How Can Regulators Set Nonarbitrary Interim Rates? The Case of Local Loop Unbundling in Ireland*, 3 JOURNAL OF NETWORK INDUSTRIES 273 (2002), co-authored with J. Gregory Sidak.

*Vertical Foreclosure in Broadband Access*, 49 JOURNAL OF INDUSTRIAL ECONOMICS (2001) 299, co-authored with Daniel L. Rubinfeld.

*Open Access to Broadband Networks: A Case Study of the AOL/Time Warner Merger*, 16 BERKELEY TECHNOLOGY LAW JOURNAL 640 (2001), co-authored with Daniel L. Rubinfeld.

*Cable Modems and DSL: Broadband Internet Access for Residential Customers*, 91 AMERICAN ECONOMICS ASSOCIATION PAPERS AND PROCEEDINGS 302 (2001), co-authored with Jerry A. Hausman and J. Gregory Sidak.

*Residential Demand for Broadband Telecommunications and Consumer Access to Unaffiliated Internet Content Providers*, 18 YALE JOURNAL ON REGULATION 1 (2001), co-authored with Jerry A. Hausman and J. Gregory Sidak.

*Determining the Source of Inter-License Synergies in Two-Way Paging Networks*, 18 JOURNAL OF REGULATORY ECONOMICS 59 (2000).

*A General Framework for Competitive Analysis in the Wireless Industry*, 50 HASTINGS LAW REVIEW 1639 (2000), co-authored with J. Gregory Sidak and David Teece.

*Capital Raising in Offshore Markets*, 23 JOURNAL OF BUSINESS AND FINANCE 1181 (1999), co-authored with Ian Gray and Reena Aggarwal.

### **Expert Testimony Since 2012**

In Re: Macbook Keyboard Litigation, Case No.: 5:18-cv-02813-EJD (N.D. Ca).

Estate of Beverly Berland v. Lavastone Capital LLC, Case No. 1:18-cv-02002-CFC (D. Del.).

Donald Conrad et al. v. Jimmy John's Franchise LLC, et al., No. 3:18-cv-00133-NJR (S.D. Ill.)

Zydus Pharmaceuticals Inc. and Cadila Healthcare Limited v. Takeda Pharmaceutical Company Limited et al., No. 18-01994 (FLW)(TJB) (D. N.J.).

In Re GSE Bonds Antitrust Litigation, No. 1:19-cv-01704-JSR (S.D. N.Y.).

beIN Sports, LLC v. Comcast Cable Communications, LLC, File No. CSR-8972-P (FCC).

Chelsea Jensen, et al. v. Samsung Electronics et al., Court File No. T-809-18 (Federal Court in Canada).

Estate of Phyllis Malkin v. Wells Fargo Bank, N.A., No. 17-cv-23136 (S.D. Fl.).

In Re Capacitors Antitrust Litigation, Master File No. 3:14-cv-03264-JD (N.D. Cal.)

In re Foreign Exchange Benchmark Rates Antitrust Litigation (S.D. N.Y.), Case No. 1:13-cv-07789-LGS.

Massachusetts Technology Park Corporation v. Axia Netmedia Corporation, KCST USA, Inc., No. 01-17-0004-3049 (American Arbitration Association).

Cung Le et al. v. Zuffa, LLC, d/b/a Ultimate Fighting Championship and UFC, Case No.: 2:15-cv-01045-RFB-(PAL) (D. Nev.).

The Ohio State University v. New Par D/B/A Verizon Wireless, Case No. 2:15-cv-2866 (S.D. Oh.).

Authenticom, Inc. v. CDK Global, LLL; and The Reynolds And Reynolds Company, Case No. 17-cv-318 (W.D. Wis.).

Manmohan Dhillon et al. v. Anheuser-Busch, LLC et al. Case No. 14CECG03039 MBS (Cal. Fresno).

In re Lidoderm Antitrust Litigation, MDL Dkt. No. 14-md-02521-WHO (N.D. Cal.).

Maxon Hyundai Mazda et al. v. Carfax Inc., Case No. CV 2680 (AJN) (RLE) (S.D. N.Y.).

Philip R. Loy and Sharon Loy v. Womble Carlyle Sandridge & Rice, et al., Case No. 2014-cv-254012 (Ga. Super.).

In re MyFord Touch Consumer Litigation, Case No. 13-cv-3072-EMC (N.D. Cal.).

Sun Life Assurance Company of Canada v. U.S. Bank National Association, Case No. NO. 2:14-cv-04703-SJF-GRB (E.D. N.Y.).

Sun Life Assurance Company of Canada v. U.S. Bank National Association and Larry Bryan, Case No. 14-CIV-62610-BLOOM/VALLE (S.D. Fla.).

In the Matter of Flat Wireless, LLC, for and on behalf of its Operating Subsidiaries, v. Cellco Partnership d/b/a Verizon Wireless, and its Operating Subsidiaries, File No. EB-15-MD-005 (Federal Communications Commission).

Omni Healthcare et al. v. Health First Inc. et al, Case No. 6:13-CV-01509-RBD-DAB (M.D. Fla.).

Schuylkill Health System et al. v. Cardinal Health 200, LLC & Owens & Minor Distribution, Inc., Case No. 12-cv-07065-JS (E.D. Pa.).

Meda Pharmaceuticals Inc. v. Apotex, Inc and Apotex Corp., Case No. 01-14-0001-6315 (Am. Arbitration Ass'n).

Mark S. Wallach, et al v. Eaton Corporation, et al, Case No. 10-260-SLR (D. Del.).



STB Ex Parte No. 722 Railroad Revenue Adequacy (Surface Transportation Board).

In the Matter of 2014 Quadrennial Regulatory Review – Review of the Commission’s Broadcast Ownership Rules and Other Rules Adopted Pursuant to Section 202 of the Telecommunications Act of 1996, MB Docket No. 14-50 (Federal Communications Commission).

Lindsay Kamakahi and Justine Levy, et al v. American Society for Reproductive Medicine and Society for Assisted Reproductive Technology, Case No.: 3:11-CV-1781 JCS (N.D. Cal.).

Salud Services, Inc. et al v. Caterpillar, Inc., Case No.: 1:12-cv-23927 (S.D. Fla.).

Gnanh Nora Krouch v. Wal-Mart Stores, Inc., Case No. CV-12-2217 (N.D. Cal.).

In the Matter of Petition for Rulemaking to Eliminate the Sports Blackout Rule, MB Docket No. 12-3 (Federal Communications Commission).

In the Matter of Review of Wholesale Services and Associated Policies, File No. 8663-C12-201313601 (Canadian Radio-Television and Telecommunications Commission).

Crafting a Successful Incentive Auction: Stakeholders’ Perspectives (U.S. Senate, Committee on Commerce, Science, and Transportation).

Altery Systems v. Enersys Delaware, Inc., Case No. 74-198-Y-001772-12 JMLE (American Arbitration Association).

In re New York City Bus Tour Antitrust Litigation, Master Case File No. 13-CV-0711 (S.D. N.Y.).

SOCAN Tariff 22.A (Online Music Services, 2011-2013), CSI Online Music Services (2011-2013), SODRAC Tariff 6 - Online Music Services, Music Videos (2010-2013) (Copyright Board Canada).

Imperial Premium Finance, LLC, v. Sun Life Assurance Company of Canada (S.D. Fla.).

The Satellite Television Law: Repeal, Reauthorize, or Revise? (U.S. House of Representatives, Committee on Energy and Commerce).

Marchbanks Truck Service, et al. v. Comdata Network Inc., et al., Civil Action No. 07-1078-JKG (E.D. Pa.).

Patricia Reiter v. Mutual Credit Corporation, et al., Case No. 8:09-cv-0081 AG (RNBx) (C.D. Cal.).

In re Photochromic Lens Antitrust Litigation, MDL Docket No. 2173 (M.D. Fla.).

In the Matter of the Arbitration Between Washington Nationals Baseball Club v. TCR Sports Broadcasting Holdings, L.L.P. (Major League Baseball Revenue Sharing Definitions Committee).

Miguel V. Pro and Davis Landscape et al. v. Hertz Equipment Rental Corporation, No. 2:06-CV-3830 (DMC) (D.N.J.).

Game Show Network, LLC v. Cablevision Systems Corp., File No. CSR-8529-P (Federal Communications Commission).

Apotex, Inc., v. Cephalon, Inc., Barr Laboratories, Inc., Mylan Laboratories, Inc., Teva Pharmaceutical Industries, Ltd., Teva Pharmaceuticals USA, Inc., Ranbaxy Laboratories, Ltd., and Ranbaxy Pharmaceuticals, Inc., Case No. 2:06-cv-02768-MSG (E.D. Pa.).

In Re Airline Baggage Fee Antitrust Litigation, Civil Action No. 1:09-Md-2089-Tcb (N.D. Ga.).

## **Speaking Engagements**

*Labor Antitrust: Ongoing Cases, Future Controversies*, UK COMPETITION AND MARKETS AUTHORITY, Nov. 12, 2020.

*14th Annual Private Antitrust Enforcement Conference and Antitrust Enforcement Awards Dinner*, AMERICAN ANTITRUST INSTITUTE, Washington, D.C., Nov. 11, 2020.

*Bill Kovacic Antitrust Salon*, CONCURRENCES and GEORGE WASHINGTON UNIVERSITY LAW SCHOOL, Oct. 15, 2020.

*George Mason Law Review's 23rd Annual Antitrust Symposium*, GEORGE MASON LAW SCHOOL, Arlington, VA, Feb. 21, 2020.

*13th Annual Private Antitrust Enforcement Conference and Antitrust Enforcement Awards Dinner*, AMERICAN ANTITRUST INSTITUTE, Washington, D.C., Nov. 12, 2019.

*A New Future for Antitrust? A Conversation Between Utah Judges, Law Professors, Attorneys & Economists*, UNIVERSITY OF UTAH DEPARTMENT OF ECONOMICS, Salt Lake City, UT, Oct. 25, 2019.

*Trends in Retail Competition: Private labels, brands and competition policy*, OXFORD INSTITUTE OF EUROPEAN AND COMPARATIVE LAW, Oxford, UK, May 24, 2019.

*Third International Conference Dispute Resolution of Consumer Mass Disputes*, HAIFA LAW SCHOOL, Haifa, Israel, Mar. 29, 2019.

*Pepperdine Law Review's 2019 Symposium*, PEPPERDINE LAW SCHOOL, Malibu, CA, Mar. 1, 2019.

*George Mason Law Review's 22nd Annual Antitrust Symposium*, GEORGE MASON LAW SCHOOL, Arlington, VA, Feb. 15, 2019.

*Regulating Tech Giants: Competition Policy for the Digital Age*, UNIVERSITY OF CHICAGO LAW SCHOOL, Chicago, IL, Feb. 11, 2019.

*Fifth Annual Tech, Media, & Telecom Competition Conference*, CAPITOL FORUM, Washington, D.C., Dec. 13, 2018.

*Understanding Exclusionary Conduct in Cases Involving Multi-Sided Platforms: Issues Related to Vertically Integrated Platforms*, FEDERAL TRADE COMMISSION HEARINGS ON COMPETITION AND CONSUMER PROTECTION, Washington, D.C. Oct. 17, 2018.

*Repeal of The Open Internet Order of 2015*, Journal of Law & Technology Spring Symposium, CATHOLIC UNIVERSITY COLUMBUS SCHOOL OF LAW, Washington, D.C. Mar. 16, 2018.

*DOJ v. AT&T Inc., DirecTV Group Holdings, LLC, and Time Warner Inc. Merger Symposium*, AMERICAN UNIVERSITY WASHINGTON COLLEGE OF LAW, Washington, D.C., Mar. 15, 2018.

*The Consumer Welfare Standard: From The Antitrust Paradox to Hipster Antitrust*, GEORGE MASON LAW REVIEW ANNUAL ANTITRUST SYMPOSIUM, Washington, D.C., Feb. 16, 2018.

*Understanding Competition in Prescription Drug Markets: Entry and Supply Chain Dynamics*, FEDERAL TRADE COMMISSION, Washington, D.C., Nov. 8, 2017.

*Antitrust and Telecommunications*, ABA ANTITRUST IN THE AMERICAS, Mexico City, June 1, 2017.

*Fundamentals—Economics*, ABA SECTION OF ANTITRUST LAW SPRING MEETING, Washington D.C., Mar. 29, 2017.

*DOL Rule Analysis and FSR's SIMPLE PTE Explained*, FINANCIAL SERVICES ROUNDTABLE, Washington, D.C., Aug. 6, 2015.

*New Principles for a Progressive Broadband Policy*, PROGRESSIVE POLICY INSTITUTE, Washington, D.C., Mar. 13, 2014.

*The Open Internet: Where Do We Go From Here?* PROGRESSIVE POLICY INSTITUTE, Washington, D.C., Jan. 29, 2014.

*Does Platform Competition Render Common Carriage Irrelevant in an IP world?* PROGRESSIVE POLICY INSTITUTE, Washington, D.C. Nov. 20, 2013.

*The 41st Research Conference on Communication, Information and Internet Policy*, TELECOMMUNICATIONS POLICY RESEARCH CONFERENCE, George Mason University School of Law, Arlington, VA, September 27, 2013.

*The Broadband Technology Explosion: Rethinking Communications Policy for a Mobile Broadband World*, Pepperdine School of Public Policy, Menlo Park, CA. June 20, 2013.

*Net Neutrality: Government Overreach or the Key to Innovation?*, NORTHWESTERN JOURNAL OF TECHNOLOGY AND INTELLECTUAL PROPERTY EIGHTH ANNUAL SYMPOSIUM, Chicago, IL., Mar. 8, 2013.

*Internet Everywhere: Broadband as a Catalyst for the Digital Economy*, The Brookings Institution, Washington, D.C., Nov. 27, 2012.

*Can Broadband Power an Economic Recovery?*, Advanced Communications Law & Policy Institute at New York Law School, Washington, D.C., July 10, 2012.

*Using Regression in Antitrust Cases*, UNIVERSITY OF PENNSYLVANIA LAW SCHOOL, Philadelphia, PA., April 12, 2012.

*Mergers: The Road to Duopoly or Path to Competitive Panacea?* NATIONAL ASSOCIATION OF REGULATORY UTILITY COMMISSIONERS, Los Angeles, CA, July 20, 2011.

*State of the Mobile Net*, CONGRESSIONAL INTERNET CAUCUS, Washington, D.C., May 27, 2011.

*Waves of Innovation: Spectrum Allocation in the Age of the Mobile Internet*, INFORMATION TECHNOLOGY & INNOVATION FOUNDATION, Washington D.C., May 17, 2011.

*With or Without Merit, Class Certification Requires Commonality*, ABA SECTION OF ANTITRUST LAW 59TH ANNUAL SPRING MEETING, Washington, D.C., Mar. 30, 2011.

*4th Annual Future of Private Antitrust Enforcement Conference*, AMERICAN ANTITRUST INSTITUTE, Washington, D.C., Dec. 7, 2010.

*Jobs and Technology*, NEW DEMOCRATIC LEADERSHIP COUNCIL, Washington, D.C., Sept. 22, 2010.

*Regulation and Broadband*, ADVANCED COMMUNICATIONS LAW & POLICY INSTITUTE, NEW YORK LAW SCHOOL, New York, N.Y., July 14, 2010.

*13th Annual Symposium on Antitrust*, GEORGE MASON LAW REVIEW, Washington, D.C., Feb. 4, 2010.

*Broadband Infrastructure and Net Neutrality*, ADVISORY COMMITTEE TO THE CONGRESSIONAL INTERNET CAUCUS' STATE OF THE NET, Washington, D.C., Jan. 22, 2010.

*The Consequences of Net Neutrality Regulations*, AMERICAN CONSUMER INSTITUTE CENTER FOR CITIZEN RESEARCH, Washington, D.C., Nov. 19, 2009.

*Wireless Innovation Luncheon*, MOBILE FUTURE, Washington, D.C., Nov. 3, 2009.

*Second Life Settlements & Longevity Summit*, INSURANCE-LINKED SECURITIES & LIFE SETTLEMENTS, New York, N.Y., Sept. 30, 2009.

*Perspectives on Investment and a National Broadband Plan*, AMERICAN CONSUMER INSTITUTE, Washington, D.C., Sept. 4, 2009.

*Markets and Regulation: How Do We Best Serve Customers?*, Wireless U. Communications Policy Seminar, UNIVERSITY OF FLORIDA PUBLIC UTILITY RESEARCH CENTER, Tampa, FL, Nov. 13, 2008.

*The Price Of Medical Technology: Are We Getting What We Pay For?* HEALTH AFFAIRS BRIEFING, Washington, D.C., Nov. 10, 2008.

*Standard Setting and Patent Pools*, LAW SEMINARS INTERNATIONAL, Arlington, VA., Oct. 3, 2008.

*The Changing Structure of the Telecommunications Industry and the New Role of Regulation*, INTERNATIONAL TELECOMMUNICATIONS SOCIETY BIENNIAL CONFERENCE, Montreal, Canada, June 26, 2008.

*The Debate Over Network Management: An Economic Perspective*, AMERICAN ENTERPRISE INSTITUTE CENTER FOR REGULATORY AND MARKET STUDIES, Washington, D.C., Apr. 2, 2008.

*Merger Policy in High-Tech Industries*, GEORGE MASON UNIVERSITY SCHOOL OF LAW, Washington, D.C., Feb. 1, 2008.

*Telecommunications Symposium*, U.S. DEPARTMENT OF JUSTICE ANTITRUST DIVISION, Washington, D.C., Nov. 29, 2007.

*Wireless Practice Luncheon*, FEDERAL COMMUNICATIONS BAR ASSOCIATION, Washington, D.C., Nov. 29, 2007.

*Association for Computing Machinery's Net Neutrality Symposium*, GEORGE WASHINGTON UNIVERSITY, Washington, D.C., Nov. 12, 2007.

*Regulators' AdvanceComm Summit*, NEW YORK LAW SCHOOL, New York, N.Y., Oct. 14, 2007.

*Annual Conference*, CAPACITY USA 2007, New York, N.Y., Jun. 26, 2007.

*William Pitt Debating Union*, UNIVERSITY OF PITTSBURGH, SCHOOL OF ARTS & SCIENCES, Pittsburgh, PA., Feb. 23, 2007.

*Annual Conference*, WIRELESS COMMUNICATIONS ASSOCIATION INTERNATIONAL, Washington, D.C., June 27, 2006.

*Annual Conference*, MEDICAL DEVICE MANUFACTURERS ASSOCIATION, Washington, D.C., June 14, 2006.

*Annual Conference*, ASSOCIATION FOR ADVANCED LIFE UNDERWRITING, Washington, D.C., May 1, 2006.

*Entrepreneur Lecture Series*, LAFAYETTE COLLEGE, Easton, PA, Nov. 14, 2005.

## Recent Essays

*Facebook Could Be Heading Towards a Breakup*, PRO-MARKET, Dec. 11, 2020.

*Six Stupid Arguments Against Forgiving Student Loan Debt*, AMERICAN PROSPECT, Dec. 1, 2020 (with Shaoul Sussman).

*The Judiciary Antitrust Subcommittee Has Charted a Course for President-Elect Biden: He Should Follow It*, PRO-MARKET, Nov. 11, 2020.

*Antitrust as Economic Stimulus*, PRO-MARKET, Oct. 20, 2020 (with Marshall Steinbaum).

*Four Key Takeaways from Thursday's Antitrust Subcommittee Hearing*, PRO-MARKET, Oct. 2, 2020.

*The Right Way to Revoke Big Tech's Get-Out-Of-Jail-Free Card*, AMERICAN PROSPECT, Oct. 1, 2020 (with Shaoul Sussman).

*Landlords Could Be Small Businesses' Silent Killer During the Pandemic*, AMERICAN PROSPECT, Aug. 25, 2020.

*To Ban Or Not To Ban TikTok: How Reciprocity on the Internet Could Backfire*, PRO-MARKET, Aug. 21, 2020.

*The Monopoly Harms That Antitrust Keeps Missing: Review of Dayen's Monopolized: Life in the Age of Corporate Power*, PRO-MARKET, Aug. 12, 2020.

*Gangster Antitrust and the Conservative Fight to Burn Fossil Fuels*, AMERICAN PROSPECT, Aug. 3, 2020.

*Top 10 Admissions Secured from Tech CEOs at the Antitrust Hearing*, PRO-MARKET, July 31, 2020.

*As the Revolving Door Swings: Big Tech Could Be Forestalling Platform Regulation in a Stealthy Way*, AMERICAN PROSPECT, July 17, 2020.

*Regulators Turn Their Attention Towards Apple's Exploitation of App Developers. Now What?*, PRO-MARKET, June 24, 2020.

*Restoring Competition in Big Tech*, LAW & LIBERTY, June 17, 2020.

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## **Memberships**

American Economics Association

American Bar Association Section of Antitrust Law

## **Reviewer**

Journal of Risk and Insurance

Journal of Competition Law and Economics

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