

January 2026

DANIEL F. SPULBER BIO

Daniel F. Spulber is the Elinor Hobbs Distinguished Professor of International Business and Professor of Strategy at the Kellogg School of Management, Northwestern University, where he has taught since 1990. He is also Professor of Law (Courtesy) at the Northwestern University Pritzker School of Law. Spulber received his Ph.D. in economics in 1979 and his M.A. in economics in 1976 from Northwestern University and his B.A. in economics in 1974 from the University of Michigan. Prior to Northwestern University, Spulber taught at Brown University, the University of Southern California, and Cal Tech.

Spulber's economics expert witness consulting experience is in Antitrust, Technology and Innovation, Platforms and Two-Sided Markets, Intellectual Property, and Industrial Organization. Spulber has provided economics expert witness testimony before the Federal Trade Commission (FTC), the International Trade Commission (ITC), the Copyright Royalty Board, the Federal Communications Commission (FCC), the Federal Energy Regulatory Commission (FERC), the Postal Rate Commission, and state regulatory agencies including the Illinois Commerce Commission (ICC), the California Public Utilities Commission (CPUC), the Indiana Utility Regulatory Commission, the Washington Utilities and Transportation Commission, and the Wisconsin Public Service Commission. Spulber provided expert testimony before the Superior Court for the State of California for the County of Los Angeles, the U.S. District Court for the Western District of Texas, and the U.S. District Court for the District of Columbia. Spulber's research has been cited by the Supreme Court of the United States.

Spulber is the founding editor of the *Journal of Economics & Management Strategy*, Wiley. He has published numerous articles in leading economics journals and law reviews. Spulber has published fourteen books including *The Case for Patents*, World Scientific Publishing, 2021. He has received 37 research grants, including the National Science Foundation, the Ewing Marion Kauffman Foundation, and the USPTO. Spulber has organized 33 law and economics conferences on innovation and entrepreneurship. He has spoken at events organized by USPTO, The Ewing Marion Kauffman Foundation, The General Accountability Office (GAO), The National Academies of Sciences, Engineering, and Medicine, The Federal Reserve Bank of Chicago, The Technology Policy Institute, Oracle, and The Global Competition Review.

Spulber served as the Research Director of the Northwestern University Center on Law, Business, and Economics at the Pritzker School of Law. He also served as the founding Director of Kellogg's International Business & Markets Program.

Spulber is the winner of the 2023 Antitrust Writing Awards: Academic Articles, Economics. Spulber was ranked 165th among economists by number of journal pages weighted by number of authors, November 2025, <https://ideas.repec.org/top/top.person.anbpages.html#psp13>. He was highly ranked for 1979-2003 adjusted appearances in The Most Frequent Contributors to the Elite Economics Journals: Half Century of Contributions to the 'Blue Ribbon Eight', J. L. Heck and P. A. Zaleski, *Journal of Economics and Finance*, 9, Spring, 2006, pp. 1-37. Spulber was ranked 6th among economists in the United States in Trends in Rankings of Economics Departments in the U.S.: An Update, L. C. Scott and P. M. Mitias, *Economic Inquiry*, 34, April 1996, pp. 378-400.

CURRICULUM VITAE

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EDUCATION

Ph.D., Economics, Northwestern University, 1979
Dissertation: Studies in Adaptive Investment Planning: Research and Development,
Rolling Plans and Renewable Resources.

Ph.D. Advisor: Dale Mortensen, Nobel Memorial Prize in Economic Sciences, 2010

M.A., Economics, Northwestern University, 1976
B.A., Economics, University of Michigan, 1974

CURRENT PROFESSIONAL APPOINTMENTS

Elinor Hobbs Distinguished Professor of International Business, Kellogg School of Management,
September 2000 to present.

Professor, Strategy Department, Kellogg School of Management, Northwestern University, June
1990 to present.

Professor of Law, Courtesy, Northwestern University Pritzker School of Law, October 2000 to
present.

Professor of Managerial Economics and Decision Sciences, Kellogg School of Management,
Northwestern University, Courtesy, June 1993 to present.

PREVIOUS PROFESSIONAL APPOINTMENTS

Research Director of the Searle Center on Law, Regulation, and Economic Growth, and
Northwestern University Center on Law, Business, and Economics at the Pritzker School of
Law, September 2010 to June 2020.

Research Director: Program on Innovation, Entrepreneurship, and Economic Growth, Searle Center on Law, Regulation, and Economic Growth, Northwestern University Pritzker School of Law, Fall 2007 to Fall 2010.

Founding Director of International Business & Markets Program and Research Center, Kellogg School of Management, Northwestern University, July 2001 to July 2006.

Chair in Energy Resource Management, Kellogg School of Management, Northwestern University, June 1990 to September 2000.

Visiting Professor of Economics, California Institute of Technology, September 1989 to December 1989.

Professor of Economics and Law, University of Southern California Law School, September 1988 to May 1990.

Professor of Economics, University of Southern California, September 1988 to May 1990.

Visiting Associate Professor of Economics, California Institute of Technology, January 1988 to June 1988.

Associate Professor of Economics, with tenure, University of Southern California, September 1984 to August 1988.

Research Associate, Institute for Marine and Coastal Studies, University of Southern California, July 1982 to June 1984.

Assistant Professor of Economics, University of Southern California, July 1982 to August 1984.

Assistant Professor of Economics, Brown University, September 1978 to June 1982.

HONORS

Winner, 2023, Antitrust Writing Awards: Academic Articles, Economics, Concurrences and The George Washington University Law School's Competition Law Center,
<https://awards.concurrences.com/en/awards/2023/academic-articles/antitrust-and-innovation-competition>

Bayard Wickliffe Heath Memorial Lecture, University of Florida Law School, March 20, 2019,
<https://www.infotechconsulting.com/lecture-series/>

The 12 Best Papers on Antitrust & the Digital Economy, The Technology Liberation Front, #4

Daniel F. Spulber, Unlocking Technology: Antitrust and Innovation, 4 (4) Journal of Competition Law & Economics, 2008: 915, 2012, <http://techliberation.com/2012/09/06/the-12-best-papers-on-antitrust-the-digital-economy/>

Highly ranked for 1979-2003 adjusted appearances in “The Most Frequent Contributors to the Elite Economics Journals: Half Century of Contributions to the ‘Blue Ribbon Eight’,” J. L. Heck and P. A. Zaleski, Journal of Economics and Finance, 9 Spring, 2006, pp. 1-37.

152nd in the world in the listing of top economists by publications in Tom Coupé, Revealed Performances: Worldwide Rankings of Economists and Economics Departments, 1990-2000, Journal of the European Economic Association, 2004.

The Bonser Distinguished Lecture at the Kelley School of Business, Indiana University, Famous Fables of Economics: Myths of Market Failures, March 27, 2003.

Co-Winner, Maggie Award for Business 2.0 Series, Daniel F. Spulber, Clock Wise: Customer Convenience is the Key to e-Commerce; Rule 3: Time, in 10 Driving Principles of the New Economy, Business 2.0, Special Supplement, February, 1999, pp.15-18.

Ranked 6th in the listing of top 50 economists in the United States by pages published in leading journals, 1984-1993, Trends in Rankings of Economics Departments in the U.S.: An Update, Loren C. Scott and Peter M. Mitias, Economic Inquiry, v. XXXIV, April, 1996, pp. 378-400.

AFFILIATIONS AND MEMBERSHIPS

Member, American Economic Association

Senior Consultant, Affiliate with Compass Lexecon

WEB PAGES

Daniel F. Spulber, GOOGLE SCHOLAR, 14,202 citations. Accessed January 6, 2026, <https://scholar.google.com/citations?user=Nvs1ixIAAAAJ>.

Daniel F. Spulber, SSRN AUTHOR PAGE, 22,944 downloads, Accessed January 6, 2026, https://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=31293.

Daniel F. Spulber, RePEc, ranked 165th among economists by publications, number of journal pages weighted by number of authors, as of November 2025, Accessed January 6, 2026, <https://ideas.repec.org/top/top.person.anbpages.html#psp13>.

Daniel F. Spulber, IDEAS, Journal articles: File downloads 6,974, Abstract views 28,731, Accessed January 6, 2026, <https://logec.repec.org/RAS/psp13.htm>.

Daniel F. Spulber, Kellogg School of Management, FACULTY WEBPAGE, http://www.kellogg.northwestern.edu/Faculty/Directory/Spulber_Daniel.aspx

Daniel F. Spulber, Northwestern Scholars, Northwestern University, <https://www.scholars.northwestern.edu/en/persons/daniel-spulber>

Daniel F. Spulber, Northwestern Pritzker School of Law Webpage, <https://www.law.northwestern.edu/faculty/profiles/DanielSpulber/>

Daniel F. Spulber, AMAZON AUTHOR PAGE, https://www.amazon.com/Daniel-F-Spulber/e/B001ITX7JI/ref=dp_byline_cont_pop_ebooks_1

Daniel F. Spulber, ORCID, 193 works, <https://orcid.org/0000-0003-2697-6522>

Daniel F. Spulber, SCOPUS, <https://www.scopus.com/authid/detail.uri?authorId=6603758347>

Daniel F. Spulber, PUBLONS profile, <https://publons.com/researcher/2872084/daniel-f-spulber/>

Daniel F. Spulber, Founding Editor, Journal of Economics & Management Strategy (JEMS), <http://editjems.org/>

Journal of Economics & Management Strategy (JEMS) ranked 101 of 3,187 journals by IDEAS/RePEc simple impact factors. Accessed January 6, 2026, <https://ideas.repec.org/top/top.journals.simple.html>.

Journal of Economics & Management Strategy (JEMS) at Wiley Online Library: <https://onlinelibrary.wiley.com/journal/15309134>

Journal of Economics & Management Strategy (JEMS) on Twitter: [@jemsjournal](https://twitter.com/jemsjournal)

Journal of Economics & Management Strategy (JEMS) on Facebook: <https://www.facebook.com/jemsjournal>

Daniel F. Spulber, TECHNOLOGY – ACADEMICS – POLICY (TAP): <https://www.techpolicy.com/Academics/Dan-Spulber.aspx>

Daniel F. Spulber, <https://www.concurrences.com/en/auteur/daniel-f-spulber>

COURSES

Sidney J. Levy Teaching Award for excellence in teaching, 1995-1996 academic year.

Current teaching:

International Business Strategy STRT 460 (MBA)

Technology and Innovation Economics I, MECS 549-1 (PhD)

Research in Economics, MECS 560-3 (PhD)

Other management courses taught:

Strategy and Organization 460 (MBA)

Public Policy and Management Strategy (MBA and Executive Management Program)

Economics courses taught:

Microeconomic Theory (Undergraduate and PhD)

Law and Economics (Undergraduate and PhD)

Industrial Organization (Undergraduate and PhD)

Regulation (PhD)

Energy and Resource Economics (Undergraduate and PhD)

Environmental Economics (Undergraduate)

Law courses taught:

Regulated Industries (University of Southern California Law School)

JOURNAL EDITING

Founding Editor, Journal of Economics & Management Strategy, Wiley-Blackwell Publishers, 1991 to present.

Editor, Special issue, Innovation Economics and Technology Standards, Journal of Competition Law and Economics, 2013, 9 (4), Oxford University Press,
<https://academic.oup.com/jcle/issue/9/4>.

Member, International Advisory Board, Decision, Indian Institute of Management, Springer, 2014 to 2022.

Member, Advisory Board, Peking University Law Journal, Taylor & Francis,
<https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=rplj20>, 2012 to 2023, pkulj@law.pku.edu.cn

Editorial board, Journal of Strategic Management Education, Senate Hall Academic Publishing, 2004 to present, <http://www.senatehall.com/strategic-management>

Coeditor, Papers and Proceedings of the American Economic Association, American Economic Review, May 1980.

DATASETS

Pere Arqué-Castells and Daniel F. Spulber, Link Compustat – USPTO Patent Assignment Dataset, Data linking assignees and assignors in the USPTO Patent Assignment Dataset to Compustat gvkeys. March 18, 2022, DOI: [10.5281/zenodo.6352358](https://doi.org/10.5281/zenodo.6352358), <https://zenodo.org/records/6352358>.

Justus Baron and Daniel F. Spulber, Data on Technology Standards, Industry Consortia, and Innovation, <https://www.law.northwestern.edu/research-faculty/clbe/innovationeconomics/data/technologystandards/>, [Technology Standards and Standard Setting Organizations: Introduction to the Searle Center Database](#). Updated February 6, 2018.

BOOKS

14. Daniel F. Spulber, The Case for Patents, 2021, New Jersey: World Scientific Publishing Company, ISBN 9789811225635 (hardcover), ISBN 9789811225666 (ebook), <https://www.worldscientific.com/worldscibooks/10.1142/11976>

Blog post about the book:

<https://www.techpolicy.com/ProfessorSpulberMakesCaseForPatents.aspx>

13. Daniel F. Spulber, The Innovative Entrepreneur, 2014, Cambridge: Cambridge University Press, ISBN 978-1-107-66811-9 (paperback), ISBN 978-1-107-04725-9 (hardback).
12. Daniel F. Spulber, The Theory of the Firm: Microeconomics with Endogenous Entrepreneurs, Firms, Markets, and Organizations, 2009, Cambridge: Cambridge University Press. ISBN-13: 9780521736602 (paperback), ISBN-13: 9780521517386 (hardback).

Chinese edition, 2012, Truth & Wisdom Press, Shanghai.

Top Ten Books in Corporate Governance, J. W. Verret, Truth on the Market, August 17, 2010, <https://truthonthemarket.com/2010/08/17/top-ten-books-in-corporate-governance/>

11. Daniel F. Spulber, Networks in Telecommunications: Economics and Law, with Christopher S. Yoo, 2009, Cambridge: Cambridge University Press, ISBN-13: 9780521673860 (paperback), ISBN-13: 9780521857109 (hardback).
10. Daniel F. Spulber, Economics and Management of Competitive Strategy, 2009, Singapore: World Scientific Publishing Company, ISBN 978-981-283-846-9, ISBN 978-981-3224-77-3 (paperback). <https://doi.org/10.1142/7171> |
9. Daniel F. Spulber, Global Competitive Strategy, 2007, Cambridge: Cambridge University Press, pp. 290 + xiv, ISBN-13: 978-052-188-081-7. (hardback) ISBN-10: 052-136-798-0, ISBN-13: 978-052-136-798-1 (paperback).
8. Daniel F. Spulber, Management Strategy, 2004, New York: McGraw Hill, pp. 431 + xv, ISBN 0072873485.
7. Daniel F. Spulber, Famous Fables of Economics: Myths of Market Failures, edited, 2002, Malden, MA: Basil Blackwell, pp. 312 +viii., ISBN 0-631-22674-5 (hardback) and ISBN 0-631-22675-3 (paperback).

Chinese edition, 2017, Guangxi Normal University Press Group Co.

Chinese edition (simplified characters) 2004, Century Publishing Group of Shanghai.

6. Daniel F. Spulber, Market Microstructure: Intermediaries and the Theory of the Firm, 1999, New York: Cambridge University Press, xxx + 368p., ISBN 0-521-65025-9 (hardback) and 0-521-65978-7 (paperback).

Chinese edition, 2003.

5. Daniel F. Spulber, The Market Makers: How Leading Companies Create and Win Markets, 1998, New York: McGraw Hill/ Business Week Books, x + 314p., ISBN 0-07-060584.

Portuguese edition, 2000, Negocio Editora Press, Brazil.

Chinese edition, 2004.

4. Daniel F. Spulber, Deregulatory Takings and the Regulatory Contract: The Competitive Transformation of Network Industries in the United States, 1997, with J. Gregory Sidak, Cambridge University Press, xi + 631p., ISBN 0-521-591597 (hardback and paperback).

Chinese edition (simplified characters), Century Publishing Group, Shanghai, 2013.

3. Daniel F. Spulber, Protecting Competition from the Postal Monopoly, with J. Gregory Sidak, 1996, Washington, D.C.: American Enterprise Institute, ix + 195p., ISBN 0-8447-3950-2.
2. Daniel F. Spulber, Regulation and Markets, 1989, Cambridge, Mass., M.I.T. Press, xviii + 690 p., ISBN 0-262-19275-6.

Chinese edition (simplified characters), 2007

Chinese edition published in 2000.

1. Daniel F. Spulber, Essays in the Economics of Renewable Resources, edited with Leonard J. Mirman, 1982, Amsterdam: Elsevier-North Holland Publishing Co., xii + 286 p., ISBN 0-444-86340-0.

ARTICLES

130. Daniel F. Spulber, 2025, The Business Revolution and Antitrust Market Definition: The Role of Time, CPI Antitrust Chronicle, September. <https://www.pymnts.com/cpi-posts/the-business-revolution-and-antitrust-market-definition-the-role-of-time/>
129. Daniel F. Spulber, 2025, Industrial Policy and Competitiveness: Non-Tariff Barriers and Incentives to Innovate, Network Law Review, Fall, November, <https://www.networklawreview.org/spulber-industrial-policy/>
128. Daniel F. Spulber, 2024, How Should Antitrust Market Definition Address Innovation? Concurrences: Competition Law Review, Law & Economics Section, No. 4-2024, November, pp. 52-58. <https://www.concurrences.com/en/review/issues/no-4-2024/law-economics/how-should-antitrust-market-definition-address-innovation-121089>
127. Daniel F. Spulber, 2024, Antitrust and Innovation Competition: Investments and Partnerships in Artificial Intelligence, chapter 3 in Artificial Intelligence & Competition Policy, Alden Abbott and Thibault Schrepel, eds., Concurrences, pp. 35-46. Paris, <https://www.concurrences.com/en/all-books/artificial-intelligence-and-competition-policy>
126. Alden Abbott and Daniel F. Spulber, 2024, Antitrust Merger Policy and Innovation Competition, Journal of Business & Technology Law, Volume 19, Issue 2, Spring, May, pp. 265-330, <https://digitalcommons.law.umaryland.edu/jbtl/vol19/iss2/2>.
125. Pere Arqué-Castells and Daniel F. Spulber, 2023, Firm Matching in the Market for Technology: Business Stealing and Business Creation, Journal of Industrial Economics, Volume 71, Issue 4, December, pp. 961-1232, <https://doi.org/10.1111/joie.12358>,

- <https://onlinelibrary.wiley.com/doi/abs/10.1111/joie.12358>. Lead article.
124. Daniel F. Spulber, 2023, Antitrust Policy Toward Innovation Competition: Measuring Dynamic Efficiency, *Antitrust Chronicle*, Issue on Innovation, September, https://www.pymnts.com/cpi_posts/antitrust-policy-toward-innovation-competition-measuring-dynamic-efficiency/
 123. Daniel F. Spulber, 2023, Antitrust and Innovation Competition, *Journal of Antitrust Enforcement*, Vol. 11, Issue 1, March, pp. 5-50, Oxford University Press, <https://doi.org/10.1093/jaenfo/jnac013>. Lead article.

Winner, 2023, Antitrust Writing Awards: Academic Articles, Economics, Concurrences and George Washington University, <https://awards.concurrences.com/en/awards/2023/academic-articles/antitrust-and-innovation-competition>.
 122. Daniel F. Spulber, 2022, How Do Vertical Mergers Affect Innovation? Learning from *Illumina*, *The Network Law Review*, November, <https://www.networklawreview.org/spulber-mergers/>.
 121. Daniel F. Spulber, 2022, Antitrust Policy toward Intermediaries: Digital Platforms and “Big Tech”, *Antitrust Chronicle*, Spring, June, Volume 2, <https://www.competitionpolicyinternational.com/antitrust-policy-toward-intermediaries-digital-platforms-and-big-tech/>.
 120. Pere Arqué-Castells and Daniel F. Spulber, 2022, Measuring the Private and Social Returns to R&D: Unintended Spillovers versus Technology Markets, *Journal of Political Economy*, Vol. 130, No. 7, July, pp. 1860–1918, <https://doi.org/10.1086/719908>.
 119. Daniel F. Spulber, 2021, Antitrust Policy toward Patent Licensing: Why Negotiation Matters, *Minnesota Journal of Law, Science and Technology*, Vol. 22, No. 1, pp. 83-161, <https://scholarship.law.umn.edu/mjlst/>.

Nominee/finalist for the 2021 Antitrust Writing Awards by Concurrences and George Washington University for the best academic article category in the subcategory Intellectual Property.
 118. R. Andrew Butters and Daniel F. Spulber, 2020, The Extent of the Market and Integration through Factor Markets: Evidence from Wholesale Electricity, *Economic Inquiry*, Vol. 58, No. 3, July, pp. 1076–1108, <https://doi.org/10.1111/ecin.12879>.
 117. Daniel F. Spulber, Licensing Standard Essential Patents with FRAND Commitments: Preparing for 5G Mobile Telecommunications, 2020, *Colorado Technology Law Journal*, 18(1), pp. 79-159, http://ctlj.colorado.edu/wp-content/uploads/2021/02/18.1_4-Spulber-

116. Daniel F. Spulber, Finding Reasonable Royalty Damages: A Contract Approach to Patent Infringement, 2019, University of Illinois Law Review, v. 2019, no. 2, pp. 615-700. <https://illinoislawreview.org/print/finding-reasonable-royalty-damages/>.
 115. Daniel F. Spulber, Standard Setting Organizations and Standard Essential Patents: Voting and Markets, 2019, The Economic Journal, Journal of the Royal Economic Society, 129(619), April, pp. 1477–1509, <https://doi.org/10.1111/eoj.12606>.
 114. Daniel F. Spulber, The Economics of Markets and Platforms, 2019, Journal of Economics & Management Strategy, Special Issue on Platforms, edited by Luis Cabral, Martin Peitz, and Julian Wright, 28(1), Spring, pp. 159–172, <https://doi.org/10.1111/jems.12290>.
 113. Daniel F. Spulber, Intellectual Contract and Intellectual Law, 2018, Journal of Technology Law & Policy, Fall, 23(1), <https://www.journaloftechlaw.org/issues/23-1-spulber/>, pp. 1-67.
 112. Justus Baron and Daniel F. Spulber, Technology Standards and Standard Setting Organizations: The Searle Center Database, 2018, Journal of Economics & Management Strategy, 27:3, Fall, Special Issue, Innovation Economics III: Patents, Trademarks, and Standards Databases, pp. 462-503, <https://doi.org/10.1111/jems.12257>.
 111. Alexei Alexandrov and Daniel F. Spulber, Sufficient Decisions in Multi-Sided and Multi-Product Markets, 2017, Journal of Industrial Economics, 65:4, December, pp. 739–766, doi: 10.1111/joie.12159 , <http://rdcu.be/Cm6l>.
 110. Joaquin Poblete and Daniel F. Spulber, Managing Innovation: Optimal Incentive Contracts for Delegated R&D with Double Moral Hazard, 2017, European Economic Review, 95, June, pp. 38-61, <http://www.sciencedirect.com/science/article/pii/S001429211730051X>
 109. Daniel F. Spulber, Complementary Monopolies and Bargaining, 2017, Journal of Law & Economics, 60 (1), February, pp. 29-74. <https://doi.org/10.1086/692586>.
- Nominated for 2018 Best Academic Article, Economics, Antitrust Writing Awards, Concurrences, <http://awards.concurrences.com/>
108. Daniel F. Spulber, Antitrust Policy toward Standards, 2016, Antitrust Chronicle, September, 1, 3, pp. 37-40, <https://www.competitionpolicyinternational.com/antitrust-policy-toward-technology-standards/>.
 107. Daniel F. Spulber, Patent Licensing and Bargaining with Innovative Complements and Substitutes, 2016, Research in Economics, 70, 4, pp. 693-713,

<http://dx.doi.org/10.1016/j.rie.2016.08.004>.

Nominated for 2017 Antitrust Writing Awards, Academic Articles, Intellectual Property, Concurrences.

106. Daniel F. Spulber, Public Prizes versus Market Prices: Should Contests Replace Patents?, 2015, Journal of the Patent and Trademark Office Society, 97, 4, December, pp. 690-735.
105. Daniel F. Spulber, How Patents Provide the Foundation of the Market for Inventions, 2015, Journal of Competition Law and Economics, June, 11, 2, pp. 271-316, doi:10.1093/joclec/nhv006, (lead article).

Nominated for 2016 Antitrust Writing Awards, Academic Articles, Intellectual Property, Concurrences Review.

104. Daniel F. Spulber and Christopher Yoo, Antitrust, the Internet, and the Economics of Networks, 2014, Chapter 17 in Roger Blair and Daniel D. Sokol, eds., Oxford Handbook of International Antitrust Economics, Volume 1, Oxford: Oxford University Press, pp. 380-403.
103. Daniel F. Spulber, How Do Competitive Pressures Affect Incentives to Innovate when there is a Market for Inventions?, 2013, Journal of Political Economy, 121, 6, December, pp. 1007-1054 (lead article).
102. Daniel F. Spulber, Innovation Economics: Technology Standards, Competitive Conduct and Economic Performance, 2013, Journal of Competition Law and Economics, 9 (4), pp. 777-825, doi:10.1093/joclec/nht041.
101. Daniel F. Spulber, On Turning Twenty: The Journal of Economics & Management Strategy Comes of Age, 2013, in Michael Szenberg and Lall Ramrattan, eds., Secrets of Economic Editors: Experience of Journal Editors, Cambridge, MA: MIT Press, Chapter 8, pp. 135-148.
100. Andrei Hagiu and Daniel F. Spulber, First-Party Content and Coordination in Two-Sided Markets, 2013, Management Science, Volume 59 (4), April, pp. 933-949, advance access 2012, doi:10.1287/mnsc.1120.1577.
99. Daniel F. Spulber, Competing Inventors and the Incentive to Invent, 2013, Industrial and Corporate Change, Volume 22 (1), February, pp. 33-72, doi: 10.1093/icc/dts013.
98. Daniel F. Spulber, Tacit Knowledge with Innovative Entrepreneurship, 2012, International Journal of Industrial Organization, Volume 30, Issue 6, November, pp. 641-653, doi:10.1016/j.ijindorg.2012.07.004.

97. Joaquin Pobleto and Daniel F. Spulber, The Form of Incentive Contracts: Agency with Moral Hazard, Risk Neutrality, and Limited Liability, 2012, Rand Journal of Economics, Volume 43, No. 2, Summer, pp. 215–234 (lead article), doi: 10.1111/j.1756-2171.2012.00163.x.
96. Richard Epstein, F. Scott Kieff and Daniel F. Spulber, The FTC, IP, and SSOs: Government Hold-Up Replacing Private Coordination, with 2012, Journal of Competition Law and Economics, March, Volume 8, Issue 1, pp. 1-46. doi: 10.1093/joclec/nhs002.
95. Daniel F. Spulber, How Entrepreneurs Affect the Rate and Direction of Inventive Activity, 2012, in Josh Lerner and Scott Stern, eds., The Rate and Direction of Inventive Activity Revisited, National Bureau of Economic Research (NBER), Chicago: University of Chicago Press, pp. 277-315.
94. Daniel F. Spulber, Intellectual Property and the Theory of the Firm, 2011, Chapter 1 in F. Scott Kieff and Troy Paredes, eds., Perspectives on Commercializing Innovation, Cambridge: Cambridge University Press, pp. 9-46.
93. Alexei Alexandrov, George Deltas, and Daniel F. Spulber, Competition and Antitrust in Two-Sided Markets, 2011, Journal of Competition Law and Economics, December, Volume 7, Issue 4, pp. 775-812, doi:10.1093/joclec/nhr012.
92. Daniel F. Spulber, Should Business Method Inventions be Patentable?, 2011, Journal of Legal Analysis, volume 3, number 1, Spring, pp. 265-340.
91. Daniel F. Spulber, The Role of the Entrepreneur in Economic Growth, 2011, in Robert Litan, ed., Handbook of Law, Innovation, and Growth, Northampton, MA: Edward Elgar, pp. 11-44.
90. Daniel F. Spulber, The Innovator's Decision: Entrepreneurship versus Technology Transfer, in David Audretsch, O. Falck, Stephan Heblich, and Adam Lederer, eds., Handbook of Research on Innovation and Entrepreneurship, Northampton, MA: Edward Elgar, 2011, pp. 315-336.
89. Daniel F. Spulber, The Quality of Innovation and the Extent of the Market, Journal of International Economics, 2010, 80, pp. 260-270, <http://dx.doi.org/10.1016/j.jinteco.2009.11.008f>.
88. Daniel F. Spulber, Solving the Circular Conundrum: Communication and Coordination in Two-Sided Networks, 2010, Northwestern University Law Review, Volume 104, Issue 2, Spring, pp. 537-591.

87. Daniel F. Spulber, Competition among Entrepreneurs, Industrial and Corporate Change, 2010, Volume 19, Number 1, February, pp. 25-50, doi:10.1093/icc/dtp038, Advance Access published on July 17, 2009.
86. Daniel F. Spulber, The Map of Commerce: Internet Search, Competition, and the Circular Flow of Information, Journal of Competition Law and Economics, Volume 5, Issue 4, December, 2009, pp. 633-682, doi: 10.1093/joclec/nhp011, Advance Access published on August 24, 2009.
85. Daniel F. Spulber, Discovering the Role of the Firm: The Separation Criterion and Corporate Law, Berkeley Business Law Journal, 6 (2), Spring, 2009, pp. 298-347.
84. Toward a Unified Theory of Access to Local Telephone Networks, with Christopher S. Yoo, Federal Communications Law Journal, 61 (1), December, 2008, pp. 1-79.
83. Daniel F. Spulber, Innovation and International Trade in Technology, Journal of Economic Theory, 138, January, 2008, pp. 1-20. [doi:10.1016/j.jet.2007.06.002](https://doi.org/10.1016/j.jet.2007.06.002)
82. Daniel F. Spulber, Rethinking Broadband Internet Access, with Christopher S. Yoo, Harvard Journal of Law and Technology, 22, Fall, 2008, pp. 1-74.
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Gaoyang Cai and Daniel F. Spulber, The Freemium Pricing Strategy and the Opportunity Cost of Time (July 20, 2023). Available at SSRN: <https://ssrn.com/abstract=4516760> or <http://dx.doi.org/10.2139/ssrn.4516760>

Gaoyang Cai and Daniel F. Spulber, How Does Vertical Integration Affect Incentives to Innovate? (August 12, 2022). Available at SSRN: <https://ssrn.com/abstract=4182875> or <http://dx.doi.org/10.2139/ssrn.4182875De>

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GRANTS AND AWARDS (PRINCIPAL INVESTIGATOR)

38. Qualcomm, Research Project, Economics of Technology Standards and Standard Essential Patents (SEPs), 2022.
37. Qualcomm, Research Project, Antitrust Policy toward Patent Licensing, Grant to Northwestern University, FY 2020 and FY 2021, \$572,209.
36. United States Patent and Trademark Office, Research Conference on Innovation Economics, 2020 Conference on Innovation Economics (June, 2020), Grant to Northwestern University, 2020, \$62,830.65 (Cumulative budget to date \$281,523.96).
35. United States Patent and Trademark Office, Research Conference on Innovation Economics, 2019 Conference on Innovation Economics (June, 2019), Grant to Northwestern University, 2019, \$64,893.
34. Qualcomm, Research Project, Innovation Law and Economics: Public Policy Implications, with Matthew Spitzer, Searle Center for Law, Regulation and Economic Growth, Northwestern University, FY 2018-2019 and FY 2019-2020, \$1,671,155.13.
33. United States Patent and Trademark Office, Research Conference on Innovation Economics, 2018 Conference on Innovation Economics (June 22-23, 2018), Grant to Northwestern University, 2018, \$61,334.
32. United States Patent and Trademark Office, Research Conference on Innovation Economics 2017, Tenth Annual Conference on Innovation Economics (June 22-23, 2017), Grant to Northwestern University, 2017, SP0038417, \$65,846.
31. Ewing Marion Kauffman Foundation, Entrepreneurship Effects of the Sharing Economy: Peer-to-Peer Networks, Mobile Communications, and the Internet of Things, Northwestern University, Summer Research Project, January 1, 2016 – December 1, 2017, \$181,990.
30. United States Patent and Trademark Office, Research Conference on Innovation Economics 2016, Ninth Annual Conference on Innovation Economics (June 23-24, 2016), Grant to Northwestern University, \$45,483.
29. Microsoft, Seventh Annual Conference on Internet Commerce and Innovation, Searle Center on Law, Regulation and Economic Growth, Conference organizer, no PI on grant, 2016, \$60,000.
28. Qualcomm Research Project, Innovation Economics, with Matthew Spitzer, Northwestern University, Grant renewal to Searle Center for Law, Regulation and

Economic Growth, FY 2016, FY 2017, and FY 2018, \$3,654,892.

27. United States Patent and Trademark Office, Eighth Annual Conference on Innovation Economics (June 18-19, 2015), Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, 2015, \$68,601.
26. United States Patent and Trademark Office, Roundtable on Patents and Technology Standards, April 9-10, 2015, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, 2015, \$47,980, May 14, 2015 to September 30, 2015.
25. Qualcomm Research Project, Innovation Economics: Technology Standards, Market Power, and Public Policy,, with Matthew Spitzer, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, May 1, 2013 to August 31, 2015, \$2.1 million.
24. Ewing Marion Kauffman Foundation, Conference and Research on Intellectual Property and Entrepreneurship, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, December 1, 2012 through September 13, 2013.
23. United States Patent and Trademark Office, Conference on Intellectual Property and Entrepreneurship, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, December 1, 2012 through September 30, 2013.
22. Qualcomm Research Project, Searle Center Research Initiative in Innovation: Technology Standards and Market Coordination, with Max M. Schanzenbach, Director Searle Center, Northwestern University, Grant to Searle Center for Law, Regulation and Economic Growth, Research Roundtable February 2013 and Research Conference, June, 2014.
21. Ewing Marion Kauffman Foundation, Conference and Research on Intellectual Property and Entrepreneurship, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, June 2012 through December 1, 2012.
20. United States Patent and Trademark Office, Conference and Research on Intellectual Property and Entrepreneurship, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, June 1, 2012 through December 1, 2012.
19. Ewing Marion Kauffman Foundation, Conference and Research on Intellectual Property and Entrepreneurship, Grant to Searle Center for Law, Regulation and Economic Growth, Northwestern University, July 1, 2011 to December 1, 2012.
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16. Microsoft, Antitrust and Competition in Two-Sided Markets, Northwestern University, Research Project, January 1, 2011 to December 13, 2011.
15. Ewing Marion Kauffman Foundation, Microeconomic Foundations of Entrepreneurship: Establishment of Firms: Competition, Innovation, and Economic Growth, Northwestern University, Research Project, March 1, 2008 through February 28, 2011.
14. Ewing Marion Kauffman Foundation, The Central Role of the Entrepreneur in the Establishment of Firms: A Fundamental Analysis of the Theory of the Firm, Northwestern University, Research Project, February 14, 2006 through July 15, 2008.
13. The Searle Fund, Access to Networks in the United States: Economic and Constitutional Connections, Northwestern University, Research Project, June 2004 to May 2005.
12. The Searle Fund, The Economic Functions of the Firm in the Contemporary Economy and in Economic Development, Northwestern University, Research Project, June 2002 to May 2004.
11. The Searle Fund, The Role of Trust in Private Contracts, Northwestern University, Research Project, Research Project, June 2000 to May 2002.
10. Ameritech Foundation Grant, Competitive Strategy and Shakeouts in Telecommunications, Northwestern University, Research Project, June-August 1995.
9. National Science Foundation, Grant No. SES-90-96205, Sequential Models of Regulation with Limited Commitment, Northwestern University, Research Project, January 1990-June 1992.
8. National Science Foundation, Grant No. SES-86-08115 Project Renewal, Government Regulation and Procurement Under Incomplete Information, University of Southern California, Research Project, July 1987-June 1988.
7. National Science Foundation, Grant No. SES-86-08115, Government Regulation and Procurement Under Incomplete Information, University of Southern California, Research Project, July 1986 to June 1987.
6. Sea Grant, Economic Analysis for Resource Regulation, University of Southern California, Research Project, October, 1983 to October, 1985.

5. National Science Foundation, Grant No. SES-82-19121, Risk Sharing and Retail Inventories, University of Southern California, Research Project, September 1983 to June 1985.
4. National Science Foundation, Grant No. SES-82-09219, Competition and Welfare with Nonlinear Pricing, Project Renewal, University of Southern California, Research Project, August 1982 to January 1984.
3. National Science Foundation, Grant No. SES-81-05852, Competition and Welfare with Nonlinear Pricing, Brown University and University of Southern California, Research Project, August 1981 to January 1983.
2. National Science Foundation, Grant No. SES-79-14386, The Economics of Renewable Resource Management, Conference Grant, Brown University, Research Project, October 1979 to March 1981.
1. National Science Foundation, Grant No. SES-79-07201, Stochastic Optimization and Economic Dynamics, Brown University, Research Project, July 1979 to July 1980.

CONFERENCES ORGANIZED

33. Daniel F. Spulber, Fourteenth Annual USPTO/Kellogg School of Management, Conference on Innovation Economics, Virtual conference, August 20, 2021.
32. Daniel F. Spulber, Thirteenth Annual USPTO/Kellogg School of Management/Center on Law, Business, and Economics Conference on Innovation Economics, August 27-28, 2020, Virtual conference, https://www.law.northwestern.edu/research-faculty/clbe/events/innovation/documents/innovation_economics_2020_agenda.pdf
31. Daniel F. Spulber, Twelfth Annual USPTO/Searle Center Conference on Innovation Economics, Searle Center on Law, Regulation and Economic Growth, June, 2019, http://www.law.northwestern.edu/research-faculty/searlecenter/events/innovation/documents/2019_innovation_economics_june_2019_agenda.pdf
30. Daniel F. Spulber, Eleventh Annual USPTO/Searle Center Conference on Innovation Economics, Searle Center on Law, Regulation and Economic Growth, June, 2018, http://www.law.northwestern.edu/research-faculty/searlecenter/events/innovation/documents/searle_11th_innovation_economics_2018_agenda.pdf
29. Daniel F. Spulber, Sixth Annual Research Roundtable on Patents and Technology Standards, Searle Center on Law, Regulation and Economic Growth, May, 2018,

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26. Daniel F. Spulber, Fifth Annual Research Roundtable on Patents and Technology Standards, Searle Center on Law, Regulation and Economic Growth, May 4-5, 2017.
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23. Daniel F. Spulber, Fourth Annual Research Roundtable on Patents and Technology Standards, Searle Center on Law, Regulation and Economic Growth, May 5-6, 2016,
http://www.law.northwestern.edu/research-faculty/searlecenter/events/roundtable/documents/Searle_Center_Technology_Standards_Roundtable_2016_Agenda.pdf.
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21. Daniel F. Spulber, Sixth Annual Conference on Internet Search and Innovation, Searle Center on Law, Regulation and Economic Growth, June 4-5, 2015, http://www.law.northwestern.edu/research-faculty/searlecenter/events/internet/documents/Searle_Center_6th_Internet_Search_Innovation_2015_Agenda.pdf.
20. Daniel F. Spulber, Third Annual Research Roundtable on Patents and Technology Standards, Data Sets, with Stuart Graham, Cosponsored by the USPTO, Searle Center on Law, Regulation and Economic Growth, April 9-10, 2015, http://www.law.northwestern.edu/research-faculty/searlecenter/events/roundtable/documents/Searle_Center_Patents_Technology_Standards_2015_Agenda.pdf.
19. Daniel F. Spulber, Seventh Annual USPTO/Searle Center Conference on Innovation Economics, Searle Center on Law, Regulation and Economic Growth, June, 2014, http://www.law.northwestern.edu/research-faculty/searlecenter/events/entrepreneur/documents/Searle_Center_Seventh_Annual_Innovation_Economics_2014_agenda.pdf.
18. Daniel F. Spulber, Fifth Annual Conference on Internet Search and Innovation, Searle Center on Law, Regulation and Economic Growth, June, 2014, http://www.law.northwestern.edu/research-faculty/searlecenter/events/internet/documents/Searle_Center_Fifth_Annual_Internet_Search_Innovation_2014_Agenda.pdf.
17. Daniel F. Spulber, Research Roundtable on Software and Business Method Patents, Searle Center on Law, Regulation and Economic Growth, with Emerson Tiller, April 24-April 25, 2014, http://www.law.northwestern.edu/research-faculty/searlecenter/events/roundtable/documents/Searle_Center_Software_Business%20Method%20Patents_Roundtable_2014_Agenda.pdf.
16. Daniel F. Spulber, Research Roundtable on Innovation Economics, Searle Center on Law, Regulation and Economic Growth, October, 2013, <http://www.law.northwestern.edu/faculty/programs/searlecenter/events/roundtable/index.html#innovationroundtable>.
15. Daniel F. Spulber, Sixth Annual Conference on Innovation and Entrepreneurship, Searle Center on Law, Regulation and Economic Growth, June 6-7, 2013, <http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>.
14. Daniel F. Spulber, Fourth Annual Conference on Internet Search and Innovation, Searle Center on Law, Regulation and Economic Growth, June 20-21, 2013,

- <http://www.law.northwestern.edu/searlecenter/conference/internet/index.html>
13. Daniel F. Spulber, Research Roundtable on Technology Standards, Innovation, and Market Coordination, Searle Center on Law, Regulation and Economic Growth, February 7-8, 2013,
<http://www.law.northwestern.edu/searlecenter/conference/roundtable/#standards>
 12. Daniel F. Spulber, Fifth Annual Conference on Innovation and Entrepreneurship, Searle Center on Law, Regulation and Economic Growth, June, 2012,
<http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>
 11. Daniel F. Spulber, Third Annual Conference on Internet Search and Innovation, Searle Center on Law, Regulation and Economic Growth, June, 2012,
<http://www.law.northwestern.edu/searlecenter/conference/internet/index.html>
 10. Daniel F. Spulber, Book Preview Roundtable, Daniel F. Spulber's The Innovative Entrepreneur, Searle Center on Law, Regulation and Economic Growth, April 26-27, 2012,
<http://www.law.northwestern.edu/searlecenter/conference/roundtable/#entrepreneurship>
 9. Daniel F. Spulber, Fourth Annual Conference on Entrepreneurship and Innovation, Searle Center on Law, Regulation and Economic Growth, June, 2011,
<http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>
 8. Daniel F. Spulber, Second Annual Conference on Internet Search and Innovation, Searle Center on Law, Regulation and Economic Growth, June, 2011,
<http://www.law.northwestern.edu/searlecenter/conference/internet/index.html>
 7. Daniel F. Spulber, Research Roundtable on Innovation Policy, Intellectual Property, and Entrepreneurship, Searle Center on Law, Regulation and Economic Growth, 2011,
<http://www.law.northwestern.edu/searlecenter/conference/roundtable/#innovation>
 6. Daniel F. Spulber, Third Annual Conference on The Economics and Law of the Entrepreneur, Searle Center on Law, Regulation and Economic Growth, June, 2010,
<http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>
 5. Daniel F. Spulber, First Annual Conference on The Economics and Law of Internet Search, 2010,
<http://www.law.northwestern.edu/searlecenter/conference/internet/index.html>
 4. Daniel F. Spulber, Second Annual Conference on The Economics and Law of the Entrepreneur, Searle Center on Law, Regulation and Economic Growth, June, 2009,
<http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>

3. Daniel F. Spulber, Book Preview Roundtable, Daniel F. Spulber and Christopher Yoo, Networks in Telecommunications, 2008, http://www.law.northwestern.edu/academics/searle/conference/roundtable/Networks_agenda.pdf
2. Daniel F. Spulber, First Annual Conference on The Economics and Law of the Entrepreneur, Searle Center on Law, Regulation and Economic Growth, June, 2008, <http://www.law.northwestern.edu/searlecenter/conference/entrepreneur/index.html>
1. Daniel F. Spulber, Book Preview Roundtable, Daniel F. Spulber's The Theory of the Firm, Searle Center on Law, Regulation and Economic Growth, 2008, http://www.law.northwestern.edu/academics/searle/conference/roundtable/theory_agenda.pdf

DOCTORAL STUDENTS

1. Paul Calem
2. Sudipto Dasgupta
3. Anindya Sen
4. Sarbajit Sengupta
5. Yossi Spiegel
6. Hon Sing Lee
7. Deepa Kumar
8. Pedro Mendi
9. Ramon Casadesus-Masanell
10. Alexei Alexandrov
11. Nolan Miller
12. Joaquin Poblete
13. Francisco Ruiz Aliseda

OUTSIDE ACTIVITIES

Daniel F. Spulber, Comments on Draft USPTO, NIST, & DOJ Policy Statement on Licensing Negotiations and Remedies for Standard-Essential Patents Subject to Voluntary F/RAND Commitments, Docket ATR-2021-0001, Submitted February 3, 2022.

Comments of Scholars of Law, Economics, and Business Draft USPTO, NIST, & DOJ Policy Statement on Licensing Negotiations and Remedies for Standard-Essential Patents Subject to Voluntary F/RAND Commitments, Docket ATR-2021-0001, Submitted February 4, 2022.

Daniel F. Spulber, Member of the Jury, 2021 Antitrust Writing Award, Concurrences.

Daniel F. Spulber, 2017, Reviewer for 2018 Kauffman Dissertation Fellows, Ewing Marion Kauffman Foundation.

Daniel F. Spulber, Interview for the Global Antitrust Economics Conference, interviewed by Managing Principal Jeffrey Cohen (Analysis Group). <https://www.eventbrite.com/e/interview-with-daniel-spulber-the-global-antitrust-economics-conference-tickets-26910829014>, Concurrences + Searle Center on Law, Regulation, and Economic Growth at Northwestern Pritzker School of Law, Friday, October 7, 2016, Chicago, IL.

SELECTED PRESENTATIONS

2023

Speaker, Book Roundtable, Technology, Innovation, and Intellectual Property Program, Classical Liberal Institute, New York University, American Patent Law: A Business and Commercial History by Robert P. Merges, December 7, 2023.

Coauthor presentation, Daniel F. Spulber and Xizhao Wang, Knowledge as Output and as Input: Artificial Intelligence and Quantum Computing, Quantum Information Technologies Conference, University of Southern California, May 4-5, 2023.

Coauthor presentation, Daniel F. Spulber and Xizhao Wang, Knowledge as Output and as Input: Artificial Intelligence and Quantum Computing, The 21st Annual International Industrial Organization Conference, Washington, D.C., April 21 – 23, 2023.

Participant, Roundtable, IP Licensing and Policy Discussion, Center for Intellectual Property and Innovation Policy (C-IP2), George Mason University, Antonin Scalia Law School, Arlington, VA, Tuesday, April 18, 2023.

Coauthor presentation, Daniel F. Spulber and Xizhao Wang, Knowledge as Output and as Input: Artificial Intelligence and Quantum Computing, AI@NU Research Series, April 12, 2023.

2022

Keynote Speaker, Incentives to Invent when Innovators Make "New Combinations" of Inventions, Taiwan Symposium on Innovation Economics and Entrepreneurship, a collaboration of the Center for Research in Econometric Theory and Applications (CRETA) of National Taiwan University (NTU) and Office of Interdisciplinary Research (OIR) of National Tsing Hua University (NTHU), March 25, 2022.

Participant, Book Roundtable, on Thibault Schrepel's Blockchain + Antitrust: The

Decentralization Formula, Edward Elgar Publishing, 2021, Technology, Innovation, and Intellectual Property Program, Classical Liberal Institute, New York University, March 11, 2022.

Seminar Speaker, Patent Policy for the 5G Era: The Role of Licensing Standard Essential Patents, ITS webinar, International Telecommunications Society, March 1, 2022, <https://www.itsworld.org/wp-content/uploads/2021/12/ITS-Webinar-Patent-Policy-for-the-5G-Era.pdf>

Seminar Speaker, Incentives to Invent When Innovators Make "New Combinations" of Inventions, Nottingham University Business School (NUBS), University of Nottingham, UK, February 22, 2022.

2021

Keynote Speaker, Licensing Standard Essential Patents and Incentives to Innovate, Conference on Transatlantic Relationships in Innovation Policies: Converging Agendas?, European University Institute, Florence School of Regulation, Communications & Media, Florence, Italy, November 11, 2021.

Participant, Book Roundtable, on Zorina Khan's *Inventing Ideas: Patents, Prizes, and the Knowledge Economy*, Oxford University Press, Technology, Innovation, and Intellectual Property Program, Classical Liberal Institute, New York University, October 28, 2021.

Speaker and organizer, Fourteenth Annual USPTO/Kellogg School of Management, Conference on Innovation Economics, Virtual conference, August 20, 2021.

Speaker, Book Roundtable, *The Case for Patents*, by Daniel F. Spulber, Technology, Innovation, and Intellectual Property Program, Classical Liberal Institute, New York University, May 11, 2021, <https://www.youtube.com/watch?v=gSZCtbaZ6-c>

Speaker, *The Case for Patents*, Annual conference on Intellectual Property Rights, Intellectual Property 2021: New Risks, New Challenges & Emerging Solutions, April 26-28 2021, World IP Forum, <https://www.worldipforum.com/wipf-speakers.php?login=success>.

Speaker, *The Case for Patents*, Podcast, Mercatus Institute, with Alden Abbott, George Mason University, Washington, D.C., April 6, 2021, <https://www.mercatus.org/podcasts/04062021/economic-benefits-patent-system>.

Speaker, Chief Economist Speaker Series, Antitrust and Innovation Competition, United States Patent and Trademark Office (USPTO), Washington, D.C., April 1, 2021.

Speaker, Seminar, "The Case for Patents," Lazarides Institute, Wilfred Laurier University, Waterloo, Canada, Thursday, March 25, 2021.

Speaker, Panel, Digital Platforms: Innovation, Antitrust, Privacy & the Internet of Things, Center for intellectual Property, Information, and Privacy Law, John Marshall Law School, University of Illinois, Chicago. March 12, 2021.

Speaker, LeadershIP Roundtable, IP, Antitrust and Standards: Have We Reached Global Convergence?, February 2, 2021.

Book Roundtable, Innovators, Firms, and Markets: The Organizational Logic of Intellectual Property by Jonathan M. Barnett, Technology, Innovation, and Intellectual Property Program, Classical Liberal Institute, New York University, January 14, 2021.

2020

Speaker, Panel, FRAND and the Automotive Value Chain, SEP2020 Conference, IPWatchdog, November 17, 2020.

Speaker, Panel, AI and IP, Conference, Joint program with the Giles S. Rich Inn, Pauline Newman IP American Inn of Court, October 20, 2020.

Speaker, Panel, The Antitrust IP Interface: How Antitrust Affects IP Implementation, online broadcast at World Intellectual Property Review/ Life Sciences Intellectual Property Review, Newton Media Ltd, Kingfisher House, 21-23 Elmfield Road, Bromley BR1 1LT United Kingdom, October 22, 2020, <https://www.lspnconnect.com/>

Speaker, Panel, Using Data to Inform Policy: Empirical Evidence on SEPs, SSOs and FRAND Royalties, 5G at the Nexus of IP, Antitrust, and Technology Leadership, Eighth Annual Fall Conference hosted by the Center for the Protection of Intellectual Property (CPIP) at Antonin Scalia Law School, George Mason University, Arlington, Virginia. Wednesday, October 7 and Thursday, October 8, 2020.

Speaker, Making IP Markets, IP Licensing Roundtable, Center for the Protection of Intellectual Property (CPIP) at Antonin Scalia Law School, George Mason University, Thursday, September 17th, 2020.

Coauthor speaker, Paper Session, TIM Conversations - Technology Acquisitions, Firm Matching in the Market for Technology: Harnessing Creative Destruction, with Pere Arque-Castells, University of Groningen, Academy of Management, Vancouver, BC, Canada, August 10, August 7-11, 2020.

Speaker, Panel on Antitrust Issues, Digital Platforms: Innovation, Antitrust, and Privacy, Center for intellectual Property, Information, and Privacy Law, John Marshall Law School, University of Illinois, Chicago, IL, March 13, 2020.

Speaker, Antitrust Policy toward Patent Licensing: Why Negotiation Matters, Sponsored by the National Science Foundation (NSF), 2020 Future of IP Conference, Orlando Florida, February 28, 2020.

2019

Speaker, Licensing Standard Essential Patents: What is Fair, Reasonable, and Non-Discriminatory?, Bayard Wickliffe Heath Memorial Lecture, University of Florida Law School, March 20, 2019.

Speaker, Panel on Economics of Intellectual Property, USPTO Conference on Artificial Intelligence: Intellectual Property Policy Considerations, January 31, 2019, USPTO, Alexandria, VA.

2018

Speaker, Panel, Session on Competition and Performance: The Role of Technology and Innovation Strategies, Academy of Management, Chicago, IL, August 13, 2018.

Speaker, Panel, Session on Organization Design and Industry Dynamics, Ecosystem Design and Industry Dynamics, Annual Organization Design Conference Chicago, IL, August 12, 2018.

Speaker, Panel, ABA Antitrust Section - IP Committee: Teleconference on Essential Patents and the Agencies – Incentives to Standardize, March 6, 2018.

2017

Coauthor presentations of Pere Arqué-Castells and Spulber, Daniel F., The Market for Technology: Harnessing Creative Destruction: Fifth Annual Research Roundtable on Patents and Technology Standards, May 4-5, 2017, Chicago; 7th ZEW/MaCCI Conference on the Economics of Innovation and Patenting, May 9, 2017, Mannheim, Germany; European Policy for Intellectual Property (EPIP) 2017 Conference, September 4-7 2017, Bordeaux, France; Barcelona GSE workshop on the Economics of Science and Innovation, June 15-16, 2017, Barcelona, Spain; 2017 Intellectual Property Statistics for Decision Makers (IPSDM) conference, November 14-15 in Mexico City; Workshop on challenges of innovation policy, November 24, 2017, Reus, Spain.

Speaker, The Internet of Things: Economic Effects and Public Policy Implications, Cyber-physical Technologies to Enable the Internet of Things, Office of Research Development LINC Series: Launching Interdisciplinary Connections, February 15th, 2017, Cook Hall room 2058, Evanston Campus, Northwestern University.

2016

Speaker, Economics of Fostering Innovation and Open Standards in Payment Markets, Federal

Reserve Bank of Chicago (FRBC), Chicago Payment Symposium, Chicago, IL, October 12-13, 2016.

Speaker, Panel on “Innovation Economics and New Business Models: Which Consequences for Antitrust Policy?” Global Antitrust Conference, Concurrences Review, Chicago, IL, October 7, 2016.

Speaker, Panel on Patent Holdup, Royalty Stacking, and Standards: Theory and Evidence, Conference on Patent Holdup Theory Implications for The Courts, Government, and the Legislature, Stanford University's Hoover Working Group on Intellectual Property, Innovation, and Prosperity (Hoover IP2), Washington, D. C., October 4, 2016.

Speaker, Standard Setting Organizations and Standard Essential Patents: Voting Power versus Market Power, Ninth Annual Searle Center Conference on Antitrust Economics and Competition Policy, September 16-17, 2016, Northwestern Pritzker School of Law.

Speaker, Session on Consequences of the IoT: Economic Implications, General Accountability Office (GAO) Meeting of Experts on Internet of Things, National Academies of Sciences, Engineering, and Medicine, Washington, D. C., May 24-25, 2016.

Keynote speaker, “What Can We Learn From Technology Standards?,” Fourth Annual Research Roundtable on Patents and Technology Standards, Searle Center on Law, Regulation and Economic Growth, Northwestern University, May 5-6, 2016.

Seminar speaker, “Standard Setting Organizations and Standard Essential Patents: Voting Power versus Market Power,” Managerial Economics and Decision Sciences (MEDS), Kellogg School of Management Northwestern University, April 1, 2016.

Seminar speaker, “Standard Setting Organizations and Standard Essential Patents: Voting Power versus Market Power,” Technology & Operations Management, Harvard Business School, March 28, 2016.

ECONOMICS EXPERT WITNESS CONSULTING EXPERIENCE

Spulber has provided economics expert witness testimony in oral and written form in matters concerning Antitrust, Technology and Innovation, Platforms and Two-sided Markets, Intellectual Property (IP) (Patents, Copyrights), Telecommunications, Cable and Satellite Television, Postal Services, Natural Gas, and Network Industries.

Spulber has provided expert testimony before the Federal Trade Commission (FTC), the International Trade Commission (ITC), the Copyright Royalty Board, the Federal Communications Commission (FCC), the Federal Energy Regulatory Commission (FERC), the Postal Rate Commission, and state regulatory agencies including the Illinois Commerce

Commission (ICC), the California Public Utilities Commission (CPUC), the Indiana Utility Regulatory Commission, the Washington Utilities and Transportation Commission, and the Wisconsin Public Service Commission.

Spulber has testified or prepared written testimony before the Superior Court for the State of California for the County of Los Angeles, the U.S. District Court for the Western District of Texas, and the U.S. District Court for the District of Columbia.

Spulber's research has been cited by the Supreme Court of the United States.¹ Spulber's research also has been cited by the Federal Communications Commission.²

ECONOMICS EXPERT WITNESS CONSULTING – SELECTED ENGAGEMENTS

Daniel F. Spulber, 2025, Economics Expert Witness, on behalf of GLENCORE LTD. and VITERRA B.V., formerly known as GLENCORE GRAIN B.V., versus LOUIS DREYFUS COMPANY B.V., Case No. 1:23-cv-11125, In the United States District Court for the Southern District of New York, Expert Report, and Oral Deposition, June 9, 2025.

Daniel F. Spulber, 2025, Economics Expert Witness, on behalf of Authors: Richard Kadrey, Sarah Silverman, Christopher Golden, Ta-Nehisi Coates, Junot Díaz, Andrew Sean Greer, David Henry Hwang, Matthew Klam, Laura Lippman, Rachel Louise Snyder, Jacqueline Woodson, Lysa TerKeurst, and Christopher Farnsworth, versus META PLATFORMS, Inc., Case No. 3:23-cv-03417-VC, United States District Court, Northern District of California, San Francisco Division, Expert Report, Rebuttal Report, and Oral Deposition, March 3, 2025.

Daniel F. Spulber, 2024, Economics Expert Witness, on behalf of FEDEX GROUND PACKAGE SYSTEM, INC., versus Jordan Roy and Justin Trumbull, on behalf of themselves and others similarly situated, Civil Action No. 3:17-cv-30116, Expert Report, United States District Court, District of Massachusetts, June 21, 2024.

¹ See 535 U. S. 467 (2002), p. 499, p. 514, p. 534, p. 549, p. 551; 525 U. S. 366 (1999), pp. 426-7.

² See for example Tariff Investigation Order and Further Notice of Proposed Rulemaking, In the Matter of Business Data Services in an Internet Protocol Environment Investigation of Certain Price Cap Local Exchange Carrier Business Data Services Tariff Pricing Plans Special Access for Price Cap Local Exchange Carriers AT&T Corporation Petition for Rulemaking to Reform Regulation of Incumbent Local Exchange Carrier Rates for Interstate Special Access Services, WC Docket No. 16-143, WC Docket No. 15-247, WC Docket No. 05-25 RM-10593, Comment Date: June 28, 2016 Reply Comment Date: July 26, 2016 Adopted: April 28, 2016 Released: May 2, 2016.

Daniel F. Spulber, 2023, Economics Expert Witness, on behalf of Certain Pharmacies, versus SURESCRIPTS, RELAYHEALTH, and ALLSCRIPTS HEALTHCARE SOLUTIONS, In Re Surescripts Antitrust Litigation, Civil Action No. 1:19-cv-06627, United States District Court, Northern District of Illinois, Expert Report, Rebuttal Report, and Oral Deposition.

Daniel F. Spulber, 2023, Economics Expert Witness, on behalf of DAEDALUS PRIME LLC, versus SAMSUNG ELECTRONICS, Initial Expert Report, In the Matter of: Certain Semiconductor Devices, Mobile Devices Containing the Same, and Components Thereof, Inv. No. 337-TA-1335, United States International Trade Commission, Washington, D.C., Expert Report, Oral Deposition, and Oral Testimony, September 29, 2023.

Daniel F. Spulber, 2023, Economics Expert Witness, on behalf of DAEDALUS PRIME LLC, versus SAMSUNG ELECTRONICS and TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY (TSMC), Initial Expert Report, In the Matter of: Certain Semiconductor Devices, Mobile Devices Containing the Same, and Components Thereof, Inv. No. 337-TA-1336, United States International Trade Commission, Washington, D.C., Expert Report and Oral Deposition.

Daniel F. Spulber, 2023, Economics Expert Witness, Declaration of Daniel F. Spulber, FLO & EDDIE, INC., a California Corporation, individually and on behalf of all other similarly situated, Plaintiff, v. PANDORA MEDIA, LLC, a Delaware corporation, Civil Action No. 2:14-cv-07648-PSG-GJS United States District Court, Central District of California.

Daniel F. Spulber, 2022, Economics Expert Witness, Representing Plaintiffs, Douglas Bernstein, Elaine Ingulli, Terry Halbert, Edward Roy, Louis Penner, and Ross Parke, as Personal Representative of the Estate of Alison Clarke-Stewart, On Behalf of Themselves and Others Similarly Situated Plaintiffs vs. CENGAGE LEARNING, Inc. Defendant, Civil Action No. 19-Cv-7541-ALC-SLC, First Amended Class Action Complaint, United States District Court Southern District of New York, Expert Class Certification Report, October 14, 2022, and Oral Deposition, December 2, 2022, Expert Class Certification Rebuttal Report, February 14, 2023.

Daniel F. Spulber, 2022, Economics Expert Witness, Written Rebuttal Testimony, In the Matter of: Determination of Rates and Terms for Making and Distributing Phonorecords IV (Phonorecords IV), DOCKET NO. 21-CRB-0001-PR (2023-2027), Representing the National Music Publishers' Association (NMPA) and the Nashville Songwriters Association International (NSAI), before the Copyright Royalty Board Library of Congress, Washington, D.C., October.

Daniel F. Spulber, 2022, Economics Expert Witness, Additional Written Direct Testimony, Remand Written Rebuttal Testimony, In the Matter of: Determination of Rates and Terms for Making and Distributing Phonorecords III (Phonorecords III), DOCKET NO. 16-CRB-0003-PR (2018-2022) (Remand), Representing the National Music Publishers' Association (NMPA) and the Nashville Songwriters Association International (NSAI), before the Copyright Royalty Board Library of Congress, Washington, D.C., January 24, 2022.

Daniel F. Spulber, 2021, Economics Expert Witness, Initial Expert Report, On behalf of Evolved Wireless, versus Samsung Electronics and Motorola Mobility, In the Matter of: Certain LTE-

Compliant Cellular Communication Devices, Inv. No. 337-TA-1253, United States International Trade Commission, Washington, D.C., Report, October 26, and Oral Deposition, December 3, 2021.

Daniel F. Spulber, 2019, Economics expert analysis and consulting, Research Project on Licensing Standard Essential Patents (SEPs), Nokia Technologies.

Daniel F. Spulber, 2018, Economics expert analysis and consulting, Research project, Nokia Technologies.

Daniel F. Spulber, 2017, Economics expert witness, Economic Analysis for Rovi Corporation (TiVo Corporation), versus respondents COMCAST, ARRIS, and TECHNICOLOR, In the Matter of Certain Digital Video Receivers and Hardware and Software Components Thereof, Inv. No. 337-TA-1001, Statement before the United States International Trade Commission, Washington, D.C., <https://www.usitc.gov/publications/337/pub4931.pdf>, Rebuttal Statement, Oral Deposition.

Daniel F. Spulber, 2017, Economics expert analysis for Congressional Requestors, GAO-17-75, Technology Assessment, Internet of Things: Status and Implications of an Increasingly Connected World, United States Government Accountability Office, Washington, D.C., Oral presentation.

Daniel F. Spulber, 2017, Economics expert analysis and consulting, Research project, Nokia Technologies.

Daniel F. Spulber, 2016, Economics expert witness. Economic Analysis for Razor, In the Matter of Certain Motorized Self-Balancing Vehicles, Investigation no. 337-ta-1000, Complaint under section 337 of the tariff act of 1930, as amended, Expert analysis of Alibaba.com. Before the United States International Trade Commission, Washington, D.C., December.

Daniel F. Spulber, 2014, Brief of Amicus Curiae, The Intellectual Property High Court of Japan, Apple v. Samsung, March.

Daniel F. Spulber, 2014, Brief of Amici Curiae Trading Technologies International, Inc., Cantor Fitzgerald, L.P., Cummins Inc., Scientific Games Corporation, Align Technology, Inc., et al., in Support of Petitioner, Alice Corporation Pty. Ltd., Petitioner, v. CLS Bank International and CLS Services Ltd., Respondents, Supreme Court of the United States, January.

Daniel F. Spulber with J. Gregory Sidak, 2013, Declaration on Behalf of América Móvil, S.A.B. de C.V. before the Comisión Federal de Telecomunicaciones, Mexico, January.

Daniel F. Spulber, 2012, Served as Economics Expert Witness, Economic Analysis for ChriMar Systems, Inc., In the matter of Certain Communication Equipment, Components Thereof, and Products Containing the Same, Including Power Over Ethernet Telephones, Switches, Wireless Access Points, Routers and Other Devices Used in LANS, and Cameras, before the United States International Trade Commission, Washington, D.C.. Oral Deposition.

Daniel F. Spulber, with Richard A. Epstein and F. Scott Kieff, 2011, Prepared report titled “The FTC’s Proposal for Regulating IP through SSOs Would Replace Private Coordination with Government Hold-Up,” August 5, White paper submitted at the Request of Qualcomm for the Federal Trade Commission’s (FTC) Patent Standards Workshop, Washington, D.C.

Declaration of Economists and Antitrust Scholars on Behalf of Radiomóvil Dipsa S.A. de C.V. (Telcel), Reconsideration Recourse, RA-007-2011, Case File No. DE-37-2006, Comisión Federal de Competencia (United Mexican States) (Oct. 14, 2011), co-authored with Robert H. Bork, Michael J. Boskin, Kenneth G. Elzinga, Paul W. MacAvoy, George L. Priest, Pablo T. Spiller, Daniel F. Spulber, and David J. Teece.

Daniel F. Spulber, 2010, Amicus Brief of Distinguished Economists on Rehearing *en banc* in Support of the Appellee TiVo Inc, in favor of Affirmance, TiVo v. EchoStar, Court of Appeals for the Federal Circuit.

Daniel F. Spulber, 2009, Prepared Economic Expert report on Securities and Exchange Commission policies toward High Frequency/Flash Trading.

Daniel F. Spulber, 2009, Prepared Economic Expert report on behalf of three independently-licensed television channels that are telecast on the two subscriber platforms in Israel: Channel 9 Israel Plus; Channel 24, the Israeli Music Channel; and Channel 21, the Shopping Channel, Statement before the Israeli Ministry of Communication.

Supreme Court of the United States, 2008, No. 07-512 (filed September 4), Brief of Amici Curiae Professors and Scholars in Law and Economics in Support of the Petitioners, Pacific Bell Telephone Co. v. linkLine Communications, Inc., (brief on behalf of William J. Baumol, Robert H. Bork, Robert W. Crandall, George Daly, Harold Demsetz, Jeffrey A. Eisenach, Kenneth G. Elzinga, Richard A. Epstein, Gerald Faulhaber, Franklin M. Fisher, Charles J. Goetz, Robert Hahn, Jerry A. Hausman, Keith N. Hylton, Thomas M. Jorde, Robert E. Litan, Paul W. MacAvoy, Sam Peltzman, J. Gregory Sidak, Pablo T. Spiller, and Daniel F. Spulber), available at http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1264103.

Supreme Court of the United States, 2007, No. 07-512 (filed Nov. 16, 2007) Brief of Amici Curiae Professors and Scholars in Law and Economics in Support of the Petitioners, Pacific Bell Telephone Co. v. linkLine Communications, Inc., (brief on behalf of William J. Baumol, Robert H. Bork, Robert W. Crandall, George Daly, Harold Demsetz, Jeffrey A. Eisenach, Kenneth G. Elzinga, Gerald Faulhaber, Franklin M. Fisher, Charles J. Goetz, Robert Hahn, Jerry A. Hausman, Thomas M. Jorde, Robert E. Litan, Paul W. MacAvoy, J. Gregory Sidak, Pablo T. Spiller, and Daniel F. Spulber), available at http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1030990.

Daniel F. Spulber, 2001, Prepared economics expert witness testimony on pole attachments for Georgia Power Company in Teleport Communications Atlanta, Inc. v. Georgia Power Company, PA No. 00-006 before the Federal Communications Commission, February.

Daniel F. Spulber, 1998, Prepared economics expert witness testimony on behalf of GTE in Joint Application of AT&T Corp. and Tele-Communications, Inc. for Transfer of Control to AT&T of

Licences and Authorizations Held by TCI and its Affiliates or Subsidiaries, Federal Communications Commission, CS Docket No. 98-178.

Daniel F. Spulber, 1998, Prepared economics expert report on Contribution of Windows Complements Providers in the Silicon Valley, Microsoft, September.

Daniel F. Spulber, 1997, Provided economic consulting to Enova Corporation (San Diego Gas and electric and Enova energy) and Pacific Enterprises (Southern California Gas) regarding their merger to form Semptra Energy.

Daniel F. Spulber, 1997, Economics expert report on securitization of stranded costs, Detroit Edison, November.

Daniel F. Spulber, 1997, Prepared economics expert witness testimony for Union Pacific Railroad Company and Southern Pacific Transportation Company in the matter of the Application of the National Railroad Passenger Corporation under 49 U.S.C. 24308a-Union Pacific and Southern Pacific Transportation Company, before the Surface Transportation Board, November 10.

Daniel F. Spulber, 1997, Prepared extensive local exchange competition study regarding the Telecommunications Act checklist, Prepared written testimony of behalf of Pacific Bell, in the Matter of Applications for Authority Under Section 271 of the Communications Act to Provide In-Region InterLATA Service in the State of California, before the Federal Communications Commission, March.

Daniel F. Spulber, 1997, with Michael Doane, Prepared study "Renegotiating the Regulatory Contract: Opportunism, Municipalization, and Bypass in the U.S. Electric Power Industry," for the Edison Electric Institute, February.

Daniel F. Spulber, 1997, Economics expert witness testimony for GTE Arbitration of interconnection agreements pursuant to the Telecommunications Act of 1996, before the Illinois Commerce Commission, the Indiana Utility Regulatory Commission, the Washington Utilities and Transportation Commission, and the Wisconsin Public Service Commission. Written statement presented in 28 states.

Daniel F. Spulber, 1997, Economics expert witness testimony, GTE Arbitration of interconnection agreements, Illinois Commerce Commission, Oral testimony.

Daniel F. Spulber, 1997, Economics expert witness testimony, GTE Arbitration of interconnection agreements, Indiana Utility Regulatory Commission, Oral testimony.

Daniel F. Spulber, 1997, Economics expert witness testimony, GTE Arbitration of interconnection agreements, Washington Utilities and Transportation Commission, Oral testimony.

Daniel F. Spulber, 1997, Economics expert witness testimony, GTE Arbitration of interconnection agreements, Wisconsin Public Service Commission, Oral testimony.

Daniel F. Spulber, with J. Gregory Sidak, 1997, Affidavit, appended to Comments of the United States Telephone Association in Usage of the Public Switched Network by Information Service and Internet Access Providers, Notice of Inquiry, Federal Communications Commission, CC Docket No. 96-263 (filed Mar. 24, 1997).

Daniel F. Spulber, with J. Gregory Sidak, Reply Affidavit of, appended to Reply Comments of the United States Telephone Association in Access Charge Reform; Price Cap Performance Review for Local Exchange Carriers; Transport Rate Structure and Pricing; Usage of the Public Switched Network by Information Service and Internet Access Providers, Notice of Proposed Rulemaking, Third Report and Order, and Notice of Inquiry, CC Docket Nos. 96-262, 94-1, 91-213, 96-263 (filed Feb. 14, 1997), Federal Communications Commission.

Daniel F. Spulber, with J. Gregory Sidak, Reply Affidavit, In the Matter of Access Charge Reform, CC Docket No. 96-262, Price Cap Performance Review, CC Docket No. 94-1 for Local Exchange Carriers, Transport Rate Structure, CC Docket No. 91-213 and Pricing, Usage of the Public Switched, CC Docket No. 96-263 Network by Information Service and Internet Access Providers, Federal Communications Commission.

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