

ANA SANTOS RUTSCHMAN

ACADEMIC APPOINTMENTS

- Villanova University School of Law**, Villanova, PA July 2022-
Professor of Law
- Teaching: Health Care Law; Vaccine Law & Policy; Contracts
- Saint Louis University School of Law**, Saint Louis, MO July 2018-June 2022
Assistant Professor
- Researcher: Center for Health Law Studies
Institute for Vaccine Science and Policy (medical school)
- Teaching: FDA Law and Policy; Emerging Health Technologies: Vaccine Law & Policy; Business & Ethics of Global Health; Patent Law; Property; Climate Change and the Public Health
- Service: Diversity, Equity & Inclusion Committee 2020-2022
Admissions Committee 2019-2020
- DePaul University College of Law**, Chicago, IL 2016-2018
Jaharis Faculty Fellow in Health Law and Intellectual Property
- Teaching: FDA Law and Policy; Patent Policy in the Health Industries

EDUCATION

- Duke Law School**, Durham, NC 2016
Science Juris Doctor
Duke Law School Tuition Award (2008-2016)
Duke Bar Association Fellowship (2014)
- Master of Laws* 2008
Duke Law School Tuition Scholarship
- Catholic University of Portugal**, Law School 2006-2007
Master of Laws
Full tuition scholarship
- Law Degree* 2001-2006
Semester Abroad Scholarship (Duke Law School)

ADDITIONAL EXPERIENCE

World Health Organization , Consultant	2022; 2015-2016
Duke University , Co-Director of Global Healthcare Innovation Alliances	2014-2016
Duke University Sanford School of Public Policy , Innovation Fellow	2014-2016
Duke University , Research Associate at Global Brazil Lab	2014-2015
Duke Office of Licensing and Ventures , Intern	2014-2015
Performed patent searches; advised on patentability issues	

AWARDS AND RECOGNITION

40 Under 40 Public Health Catalyst Award	2022
Innovation, Business & Law Center Prize, University of Iowa (with Ruqaiijah Yearby)	2020
Beaumont Research Award, Saint Louis University	2020
Junior Faculty Non-Traditional Scholarly Works Award, Saint Louis University	2020
Spark Microgrant Award, Saint Louis University (with Timothy Wiemken)	2020
Vagts Roundtable Scholar on Transnational Law, American Society of International Law	2020
Centre for Intellectual Property Policy & Management/Jean Monnet Centre for Excellence Visiting Research Fellowship (U.K)	2019
Manzo Scholar in Patent Law	2019
Health Law Scholar, American Society of Law, Medicine & Ethics	2018
Wiet Life Sciences Law Scholar	2018
Bio IP Scholar, American Society of Law, Medicine & Ethics	2017
Duke Law School Bar Fellowship	2014
European Commission/Foundation for Science & Technology Grant	2009-2013

SELECTED PUBLICATIONS

Book in Progress (Cambridge University Press, 2022)

VACCINES AS TECHNOLOGY: INNOVATION, BARRIERS AND THE PUBLIC HEALTH

Articles in Progress

Risk and Error at the FDA

A Theory of Genetic Interests (with Yaniv Heled and Liza Vertinsky)

The Exclusionary Clockwork: Mapping Structural Racism in the Intellectual Property Ecosystem (with Ruqaiijah Yearby)

Recipient of an Innovation, Business & Law Center Prize from the University of Iowa College of Law

Law Review Articles

Promoting Vaccine Innovation 83 OHIO STATE LAW JOURNAL __ (2022) (with Mirit Eyal-Cohen)

Selected for presentation at the National Tax Organization's 113th Annual Conference on Taxation

Reviewed by David Elkins in Tax Prof Blog (Dec. 4, 2020)

Regulatory Malfunctions in the Drug Patent Ecosystem 70 EMORY LAW JOURNAL 347 (2020)

Selected through blind review for presentation at the Wiet Life Science Law Scholars Workshop.

The Vaccine Race in the 21st Century 61 ARIZONA LAW REVIEW 729 (2019) (lead article)

Selected through blind review by the American Society of Law, Medicine & Ethics for presentation at the 2018 Health Law Scholars Workshop.

IP Preparedness for Outbreak Diseases, 65 UCLA LAW REVIEW 1200 (2018)

Unsolicited response by Douglas Lichtman, *The Central Assumptions of Patent Law: A Response to Ana Santos Rutschman's IP Preparedness for Outbreak Diseases*, 65 UCLA L. REV 1268 (2018).

Selected through blind review by the American Society of Law, Medicine & Ethics for presentation at the 2017 Bio IP Workshop.

Selected as the feature article of the 2017 Fall UCLA Law Review Scholar Forum.

Essays, Shorter Pieces and Peer-Reviewed Work

Contractual Solutions to Overcome Drug Scarcity During Pandemics and Epidemics, 40 NATURE BIOTECHNOLOGY 301 (2022) (with Sapna Kumar)

Vaccine Hesitancy Across Time: Legal and Policy Interventions from the Dawn of the Anti-Vaccination Movement to the Era of Social Media, 23 NORTH CAROLINA JOURNAL OF LAW & TECHNOLOGY __ (2022) (invited symposium)

Social Media Self-Regulation and the Rise of Vaccine Misinformation, 4 UNIVERSITY OF PENNSYLVANIA JOURNAL OF LAW & INNOVATION 25 (2022) (invited symposium)

Public Health Law and Policy in the Wake of NFIB v. OSHA: Probing Emerging Divides in the Supreme Court's View of Public Health, N.Y.U. JOURNAL OF LEGISLATION & PUBLIC POLICY QUORUM (Mar. 24, 2022) (with Ruqaiijah Yearby)

Viral Sovereignty, Vaccine Diplomacy, and Vaccine Nationalism: The Institutions of Global Vaccine Access, 36 EMORY INTERNATIONAL LAW REVIEW __ (2022) (with Sam Halabi)

Assessment of the Proposed Intellectual Property Waiver as a Mechanism to Address the COVID-19 Vaccine Scarcity Problem, JOURNAL OF EPIDEMIOLOGY AND COMMUNITY HEALTH 218409 (2022) (with Julia Barnes-Weise and Reid Adler) (peer-reviewed)

Vaccine Intellectual Property, 2412 METHODS IN MOLECULAR BIOLOGY 519 (2022) (with Joshua Sarnoff and Timothy Wiemken) (peer-reviewed)

Estimating Pediatric Cases of COVID-19 Over Time in the United States: Filling in a Gap in Public Use Data, 50 AMERICAN JOURNAL OF INFECTION CONTROL 4 (2022) (with Timothy Wiemken et al.) (peer-reviewed)

Vaccine Clinical Trials and Data Infrastructure, 2021 UTAH LAW REVIEW 771 (2021) (invited symposium) (lead article)

The COVID-19 Vaccine Race: Intellectual Property, Collaboration(s), Nationalism and Misinformation, 64 WASHINGTON UNIVERSITY JOURNAL OF LAW AND POLICY 167 (2021) (invited symposium)

Selected for inclusion in the World Health Organization's database on "Global literature on coronavirus disease."

Intellectual Property as a Determinant of Health, 53 VANDERBILT JOURNAL OF TRANSNATIONAL LAW 413 (2021)

Selected as the feature article of the 2020 Vagts Roundtable Scholar on Transnational Law at the annual meeting of the American Society of International Law

An Institutional Solution to Build Trust in Pandemic Vaccines, 31 HARVARD PUBLIC HEALTH REVIEW (2021) (with Yaniv Heled and Liza Vertinsky) (peer-reviewed)

Regulatory Reactivity: A Case Study on the Approval of the Alzheimer's Disease Drug Aducanubam (Aduhelm), REGULATORY REVIEW (2021) (with Yaniv Heled and Liza Vertinsky)

Remarks by Ana Santos Rutschman, 114 PROCEEDINGS OF THE AMERICAN SOCIETY OF INTERNATIONAL LAW ANNUAL MEETING 312 (2021)

Re-examining Vaccine Staggering Within Hesitancy Frameworks, FRONTIERS IN IMMUNOLOGY 12:662814 (2021) (with Timothy Wiemken) (peer-reviewed)

The Case Against Monetary Behavioral Incentives in the Context of COVID-19 Vaccination, 27 HARVARD PUBLIC HEALTH REVIEW (2021) (with Timothy Wiemken) (peer-reviewed)

Associations of Presidential Voting Preference and Gubernatorial Control with County-Level COVID-19 Case and Death Rates in the Continental United States, PUBLIC HEALTH (2021) (with Jason Eden et al.) (peer-reviewed)

The Need for the Tort Law Privilege of Necessity in Intellectual Property Law, UNIVERSITY OF CHICAGO LEGAL FORUM (2021) (with Yaniv Heled and Liza Vertinsky) (symposium)

Development of Vaccines for Influenza Disease: Opportunity Costs of the COVID-19 Pandemic, 39 VACCINE 1025 (2021) (with Timothy Wiemken) (peer-reviewed)

Excess Mortality in the United States in 2020: Forecasting and Anomaly Detection, AMERICAN JOURNAL OF INFECTION CONTROL (2021) (with Timothy Wiemken, Samson Niemojka and Chris Prenner) (peer-reviewed)

Regulatory Reactivity: FDA and the Response to COVID-19, FOOD AND DRUG LAW JOURNAL (2021) (with Yaniv Heled and Liza Vertinsky) (peer-reviewed)

Property and Intellectual Property in Vaccine Markets, 7 TEXAS A&M PROPERTY LAW JOURNAL 110 (2021) (invited symposium)

Is There a Cure for Vaccine Nationalism?, 120 CURRENT HISTORY 9 (2021) (invited)

A Machine Learning Primer for Infection Prevention and Control, AMERICAN JOURNAL OF INFECTION CONTROL (2020) (with Timothy Wiemken) (peer-reviewed)

The Problem with Relying on Profit-Driven Models to Produce Pandemic Drugs, 7 JOURNAL OF LAW AND THE BIOSCIENCES 1060 (2020) (with Yaniv Heled and Liza Vertinsky) (peer-reviewed)

The Reemergence of Vaccine Nationalism, GEORGETOWN JOURNAL OF INTERNATIONAL AFFAIRS ONLINE (Jul. 3, 2020)

The Intellectual Property of Vaccines: Takeaways from Recent Infectious Disease Outbreaks, 118 MICHIGAN LAW REVIEW ONLINE 170 (2020)

Thresholds versus Anomaly Detection for Surveillance of Pneumonia and Influenza Mortality (with Timothy Wiemken, Samson Niemojka & Daniel Hoft), EMERGING INFECTIOUS DISEASES (2020) (peer-reviewed)

Portugal's Response to COVID-19, THE REGULATORY REVIEW (2020)

Selected by the Regulatory Review for inclusion in *Top Contributor Essays of 2020* (Dec. 28, 2020)

Vaccines and IP Preparedness in the Coronavirus Outbreak, NORTHWESTERN UNIVERSITY LAW REVIEW OF NOTE (May 18, 2020)

The Mosaic of Coronavirus Vaccine Development: An Illustration of Systemic Failures in Vaccine Innovation, COLUMBIA JOURNAL OF INTERNATIONAL AFFAIRS ONLINE (Mar. 21, 2020)

Vaccine Hesitancy: Experimentalism as Regulatory Opportunity, BUSINESS, ENTREPRENEURSHIP & TAX LAW REVIEW (with Timothy Wiemken) (2020) (invited symposium)

On the Judicialization of Health, 18 WASHINGTON UNIVERSITY GLOBAL STUDIES LAW REVIEW 559 (2019) (invited symposium)

From Venetian Glass to Contemporary Intellectual Property: Revisiting Tailored Patent Regimes, JOTWELL (Sept. 25, 2019)

Vaccine Licensure in the Public Interest: Lessons from the Development of the U.S. Army Zika Vaccine, 127 YALE LAW JOURNAL FORUM 651 (2018)

The Priority Review Voucher Program at the FDA: From Neglected Tropical Diseases to the 21st Century Cures Act, 26 ANNALS OF HEALTH LAW 71 (2017) (symposium)

Patent Venue Exceptionalism After TC Heartland v. Kraft, 25 U. MIAMI BUSINESS LAW REVIEW 29 (2017) (invited symposium)

Steps Towards an Alignment of Intellectual Property in South-South Exchanges: A Return to TRIPS, 43 DENVER JOURNAL OF INTERNATIONAL LAW AND POLICY 515 (2015) (symposium article)

Experimenting with Territoriality: Pan-European Music Licensing and the Persistence of Old Paradigms, 8 DUKE LAW & TECHNOLOGY REVIEW 1 (2009)

Book Chapters

Introduction to Patent Law, in LAWS OF MEDICINE – CORE LEGAL ASPECTS FOR THE HEALTHCARE PROFESSIONAL, Amirala Pasha, Ed. (forthcoming, 2022)

Rights and Wrongs in the Vaccine Informational Ecosystem, in INFORMATIONAL RIGHTS & INFORMATIONAL WRONGS: KEY QUESTIONS FOR LAW, REGULATION AND GOVERNANCE, Maurizio Borghi & Roger Brownsword (Eds.) (forthcoming, 2022)

The Intellectual Property of COVID-19, in OUTSMARTING PANDEMICS, Elizabeth Kirley & Deborah Porter (Eds.) (forthcoming, 2021)

Ebola; Zika; Gravitational Waves; entries in GREAT EVENTS: 2000-16, Thomas Lewis (editor), Grey House Publishing (2017)

Intellectual Property; Drones; Electronic Frontier Foundation; entries in *PRIVACY RIGHTS IN THE DIGITAL ERA*, (ed. Christopher Anglim), Grey House Publishing (2016)

Intellectual Property and Human Rights: Northern and Southern perspectives, in *NEW TECHNOLOGIES AND HUMAN RIGHTS: CHALLENGES TO REGULATION* (eds. Cunha *et al.*), Ashgate (2013)

Other

Rights to Federally Funded Inventions and Licensing of Government Owned Inventions, Submission to the National Institute of Standards and Technology (Apr. 5, 2021) (with Liza Vertinsky, Yaniv Heled, Cynthia Ho and Josh Sarnoff).

Comments on the Preliminary Framework for Equitable Allocation of COVID-19 Vaccine, Submission to the National Academies of Science (Sept. 4, 2020) (with Julia Barnes-Weise, Robert Gatter and Timothy Wiemken).

Principal Drafter, *Comments to Notice of Intent to Grant of an Exclusive License of U.S. Government-Owned Patents on Zika Vaccine to Sanofi Pasteur* (with Julia Barnes-Weise), Submission to the United States Army Medical Research and Material Command (Mar. 6, 2017).

Commentary

Using Contracts to Lessen Inequities in Access to Medicines in Pandemics and Epidemics, Bill of Health (Mar. 24, 2022) (with Sapna Kumar)

Why Moderna won't share rights to the COVID-19 vaccine with the government that paid for its development, The Conversation (Nov. 18, 2021)

Promoting Vaccine Equity, Bill of Health (Oct. 13, 2021)

How Theranos' Faulty Blood Tests Got to Market - And What That Shows About Gaps in FDA Regulation, The Conversation (Oct. 5, 2021)

The COVID-19 Vaccine Patent Waiver: The Wrong Tool for the Right Goal, Bill of Health (May 5, 2021) (with Julia Barnes-Weise)

The Intellectual Property Framework of the COVID-19 Vaccine Race, COVID-19 Law and Human Rights Observatory (Mar. 23, 2021)

Can Employers Require Workers to Take the COVID-19 Vaccine? 6 Questions Answered, The Conversation (Dec. 22, 2020)

Why Paying People to Get the Coronavirus Vaccine Won't Work, The Conversation (Dec. 11, 2020) (with Robert Gatter)

Why the Government Shouldn't Pay People to Get Vaccinated Against COVID-19, Bill of Health (Dec. 1, 2020)

Facebook's Latest Attempt to Address Vaccine Misinformation—And Why It's Not Enough, Health Affairs Blog (Nov. 5, 2020)

The Case for Face Shields: Improving the COVID-19 Public Health Policy Toolkit, Bill of Health (Sept. 3, 2020) (with Timothy Wiemken and Robert Gatter)

FDA is Departing from Long-Standing Procedures to Deal with Public Health Crises, and this May Foreshadow Problems for COVID-19 Vaccines, The Conversation (Aug. 27, 2020) (with Liza Vertinsky and Yaniv Heled)

Playing Tennis During a Pandemic: From Social Distancing to the Possibility of Mandatory Vaccination, Tennis Life Magazine (Jul. 17, 2020)

How 'Vaccine Nationalism' Could Block Vulnerable Populations' Access to COVID-19 Vaccines, The Conversation; republished by PBS News Hour and other news outlets; translated into Hungarian and republished by Coronavirus News Live (Jun. 17, 2020)

Stay-at-home Order Isn't Religiously Biased, Saint Louis Post-Dispatch op-ed (Jun. 4, 2020) (with Chad Flanders)

3D Printing: How an Emerging Technology May Help Fight a Pandemic, IPR Info (Finland) (May 25, 2020) (with Dinusha Mendis and Rosa Ballardini)

From Misinformation to Hidden Economic Agendas: The Coronavirus Lawsuit Against China, Duke FinReg Blog (May 7, 2020) (with Robert Gatter)

Lawsuits as Conduits for Misinformation During COVID-19, Bill of Health (Apr. 30, 2020) (with Robert Gatter)

Smoke Screens: An Initial Analysis of the Coronavirus Lawsuits in the United States against China and the World Health Organization, Protego Press (Apr. 22, 2020) (with Robert Gatter)

Require Court Orders for All Quarantines, Saint Louis Post-Dispatch op-ed (Mar. 15, 2020) (with Robert Gatter)

Mapping Misinformation in the Coronavirus Outbreak, Health Affairs Blog (Mar. 10, 2020) (listed number 2 on *Ten Most-Read Health Affairs Blog Posts of 2020* (Dec. 31, 2020))

3D Printing of Body Parts is Coming Fast – But Regulations Are Not Ready, The Conversation; republished by Houston Chronicle and other news outlets (Jan. 10, 2020) (with Dinusha Mendis)

Zuckerberg on Vaccines, or The Shortcomings of Our Responses to Vaccine Misinformation, Protego Press (Nov. 5, 2019)

Malicious Bots and Trolls Spread Vaccine Misinformation – Now Social Media Companies Are Fighting Back, The Conversation; republished by Chicago Tribune and other news outlets (Sept. 18, 2019).

At A Post-Gottlieb FDA, What Does The Future Hold For Public Health?, Health Affairs Blog (Mar. 22, 2019)

Will More Genetically Engineered Foods Be Approved Under The FDA's New Leadership?, The Conversation; republished by San Francisco Chronicle and other news outlets (Mar. 21, 2019)

Congress Takes First Steps Toward Regulating Artificial Intelligence, The Conversation; republished by Houston Chronicle and other news outlets (Oct. 19, 2018)

U.S. Health Care Companies Begin Exploring Blockchain Technologies, The Conversation; republished by Scientific American (Jul. 19, 2018). Translated into Japanese and published by Newsweek Japan (Nov. 15, 2018)

Stephen Hawking Warned About the Perils of Artificial Intelligence – Yet AI Gave Him a Voice, The Conversation; republished by Chicago Tribune, Houston Chronicle, and other news outlets (Mar. 15, 2018)

No Vaccines Before the Next Zika Outbreak?: A Case for IP Preparedness; guest post on PatentlyO (Oct. 9, 2017)

How Congress is Failing on Zika, The Conversation; republished by The Scientist, San Francisco Chronicle, and other news outlets (Sept. 18, 2016)

Ebola and the Accidental Consortia (with Julia Barnes-Weise), Huffington Post (Apr. 7, 2015)

SELECTED PRESENTATIONS

Invited Presenter, *Inter-Pandemic Vaccine Regulation: Justice and Global Equity*, NYU School of Law (forthcoming, October 2022)

Invited Book Presenter, *Pandemics and Public Value Management*, Centre for Aerospace & Security Studies, Pakistan (June 2022) (remote presentation)

Panelist, *Religious Freedom and Public Health: The Case of Vaccination in Pandemic and Epidemic Context*, University of Córdoba, Spain (June 2022)

Invited Presenter, *North Carolina Bar Association Annual Meeting*, Intellectual Property Law Section (March 2022) (remote presentation)

Invited Panelist, *Administrative Law Review Symposium*, American University Washington College of Law (March 2022) (remote presentation)

Invited Panelist, *Columbia Society of International Law's Panel on COVID-19 Vaccine Distribution*, Columbia Law School (February 2022) (remote presentation)

- Invited Presenter, *Innovation Policy Colloquium*, NYU School of Law (February 2022) (remote presentation)
- Invited Presenter, *North Carolina Journal of Law & Technology Symposium*, University of North Carolina School of Law (January 2022) (remote presentation)
- Invited Presenter, *Intellectual Property, COVID-19 and the Next Pandemic*, Georgetown University Law Center/University of Hong Kong Law School (Nov. 2021) (remote presentation) (with Sapna Kumar)
- Invited Presenter, *Emerging Legal Issues in Healthcare AI*, St. Louis Area Health Lawyers Association (Nov. 2021) (remote presentation)
- Invited Presenter, *Texas A&M Law Workshop for Emerging Scholars in IP and Technology* (Nov. 2021) (remote presentation)
- Invited Presenter, *3rd Clinical Research Summit*, Puerto Rico Consortium for Clinical Investigation (Oct. 2021) (remote presentation)
- Invited Presenter, *Health Law, Policy, Bioethics, and Biotechnology Workshop*, Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics, Harvard Law School (Oct. 2021) (remote presentation)
- Invited Presenter, *The Pandemic, Patents and Trade Secrets*, Pontificia Universidad Javeriana of Bogotá (Jun. 2021) (remote presentation)
- Co-Presenter, *43rd Annual Health Law Professors Conference*, Northeastern University School of Law (Jun. 2021) (remote presentation with Mirit Eyal-Cohen)
- Invited Presenter, *Great Decisions Speaker Series*, World Affairs Council of St. Louis & University of Missouri–St. Louis (Jun. 2021) (remote presentation)
- Co-Presenter, *Law & Society Annual Meeting*, Law & Society Association (May 2021) (remote presentation with Henry Ordower)
- Invited Commentator, *Intellectual Property in Times of Crisis*, International Association for the Advancement of Teaching and Research in Intellectual Property (May 2021) (remote participation)
- Invited Presenter, *The Intellectual Property of COVID-19*, University of Bournemouth, United Kingdom (May 2021) (remote presentation)
- Invited Presenter, *R&D, IP and COVID-19 class lecture*, University of Milton Campos, Brazil (May 2021) (remote presentation)
- Invited Panelist, *Jaharis Symposium on Health Law and Intellectual Property*, DePaul University College of Law (Apr. 2021) (remote presentation)
- Invited Panelist, *COVID-19 Retrospective and Lessons Learned*, American Council for Technology and Industry Advisory Council (Apr. 2021) (remote presentation)
- Co-Presenter, *10th Annual Cambridge International Law Conference*, Cambridge University (Mar. 2021) (remote presentation with Sam Halabi)
- Presenter, *ACS Constitutional Law Scholars Forum*, Texas A&M University School of Law & Barry Law Review (Mar. 2021) (remote presentation)

- Invited Presenter, *Intersections in Intellectual Property Conference*, UIC John Marshall Law School (Mar. 2021) (remote presentation)
- Guest Lecturer, *Health and Pharmaceutical Law Post-Graduate Degree Program*, University of Lisbon Law School (Portugal) (Mar. 2021) (remote presentation)
- Co-Presenter, *Third Annual UCI Law/A. Lavar Taylor Tax Symposium*, UC Irvine School of Law (Feb. 2021) (remote presentation with Henry Ordower)
- Invited Panelist, *9th International Intellectual Property Roundtable* (Feb. 2021) (remote presentation)
- Invited Presenter, *2021 Journal of Law & Innovation Symposium*, University of Pennsylvania Carey Law School (Feb. 2021) (remote presentation)
- Co-Presenter, *18th Annual Works-in-Progress Intellectual Property Colloquium*, American University, Texas A&M and Utah University schools of law (Feb. 2020) (remote presentation with Yaniv Heled and Liza Vertinsky)
- Invited Speaker, Address to the European Union Council's Working Party on Information (Feb. 2021) (remote presentation)
- Invited Panelist, *New Zealand's National Security and Covid-19*, University of Otago Foreign Policy School, New Zealand (Feb. 2021) (remote presentation)
- Invited Panelist, *State of the Net Conference 2021*, Washington D.C. (Jan. 2021) (remote presentation)
- Invited Presenter, *The Color of COVID: COVID-19 Vaccines*, Institute for Healing Justice and Equity webinar, Saint Louis University (Dec. 2020) (remote presentation)
- Co-Presenter, *What Could Congress Do about the Pandemic by Dec. 18*, Emory University & Georgia State University (Dec. 2020) (remote presentation with Yaniv Heled and Liza Vertinsky)
- Invited Presenter, *Lee E. Teitelbaum Utah Law Review Symposium: The Law & Ethics of Medical Research*, University of Utah S.J. Quinney College of Law (Nov. 2020) (remote presentation)
- Invited Presenter, *Journal of Gender, Social Policy & the Law Symposium: Bias and the Implications of Algorithms, Facial Recognition, and Machine Learning Technologies*, American University Washington College of Law (Nov. 2020) (remote presentation)
- Co-Presenter, *Food and Drug Law Journal 2020 Symposium*, Food and Drug Law Institute, Washington DC (Nov. 2020) (remote presentation with Yaniv Heled and Liza Vertinsky)
- Co-Presenter, *University of Chicago Legal Forum Symposium: Law for the Next Pandemic*, University of Chicago Law School (Nov. 2020) (remote presentation with Yaniv Heled and Liza Vertinsky)
- Presenter, *Examining Institutional Structures: Race, Business, and the Law*, University of Iowa Innovation, Business, & Law Center (Oct. 2020) (remote presentation)

- Invited Presenter, *2020 Artificial Intelligence in Oncology Symposium*, Case Western Reserve University (Oct. 2020) (remote presentation)
- Invited Presenter, *2020 Health and Technology Law & Policy Conference*, Gonzaga University School of Law (Oct. 2020) (remote presentation)
- Invited Panelist, *Finding Immunity: The Race for a COVID-19 Vaccine at SLU*, Saint Louis University (Sept. 2020)
- Commentator, *Health Law Scholars Workshop*, Saint Louis University of School of Law (Sept. 2020)
- Invited Speaker, *Intellectual Property Speaker Series*, George Washington University School of Law (Sept. 2020) (remote presentation)
- Invited Commentator, *Public Health: Regulation, Innovation and Preparation Research Roundtable*, Antonin Scalia Law School, George Mason University (Sept. 2020) (remote presentation)
- Presenter, *Conference on Global Public-Private Law Approaches to the COVID-19 Pandemic*, Singapore Management University (Sept. 2020) (remote presentation)
- Invited Presenter, *Indian Pharmaceuticals in a Post-COVID World*, Confederation of Indian Industries & Texas A&M School of Law, (Sept. 2020) (remote presentation)
- Invited Presenter, *IP and COVID-19 Conference*, Chinese University of Hong Kong (Jul. 2020) (remote presentation)
- Invited Presenter, *Vagts Roundtable on Transnational Law*, American Society for International Law's Annual Meeting (Jun. 2020) (remote presentation)
- Invited Presenter, *Seattle University Summer Faculty Workshop Series* (Jun. 2020) (remote presentation)
- Invited Panelist, *Technological Progress, COVID-19 and the Future of Globalization*, VIT University Law School, Chennai, India (Jun. 2020) (remote presentation)
- Invited Panelist, *Panel on Innovation During COVID-19: From Vaccines to Open-Source Ventilators to Homemade Masks*, NYU Law School Engelberg Center on Innovation Law and Policy & R Street Institute (May 2020) (remote presentation)
- Invited Panelist, *Panel on IP Protection and Access to Medical Technology in Health Emergencies.*, World Trade Institute, Bern, Switzerland (May 2020) (remote presentation)
- Invited Presenter, *First Mini-Conference on Coronavirus and Law*, University of Oklahoma College of Law (Apr. 2020) (remote presentation)
- Invited Presenter, *Cordell Institute Health & Information Policy Colloquium*, Washington University in Saint Louis (Mar. 2020)
- Invited Presenter, National Vaccine Advisory Board meeting, Washington DC (Feb. 2020)

- Invited Presenter, *Center for Law & the Biosciences Colloquium Series*, University of Utah S.J. Quinney College of Law (Jan. 2020)
- Invited Presenter, *InfoSoc Seminar Series*, University of Bournemouth, United Kingdom (Dec. 2019)
- Invited Presenter, *Perils and Promises of Artificial Intelligence in Healthcare and Business*, Saint Louis University Bander Center for Medical Business Ethics (Nov. 2019)
- Invited Presenter, *Law and the Biosciences Workshop*, Stanford Law School (Oct. 2019)
- Invited Presenter, *Texas A&M Property Law Journal Symposium*, Texas A&M University School of Law (Oct. 2019)
- Invited Presenter, *Innovation, Justice and Globalization*, Harvard Law School (Sept. 2019)
- Commentator, *Health Law Scholars Workshop*, Saint Louis University of School of Law (Sept. 2019)
- Panelist, *Intellectual Property Scholars Conference*, DePaul University College of Law (Aug. 2019)
- Presenter, *Lecture on Hot Topics in Pharma & Biotech Law*, Saint Louis University Madrid Campus (Jun. 2019)
- Invited Presenter, *Regulation and Innovation in The Biosciences Workshop*, University of Copenhagen, Center for Advanced Studies in Biomedical Innovation Law (June 2019)
- Panelist, *42th Annual Health Law Professors Conference*, Loyola University of Chicago School of Law (Jun. 2019)
- Invited Speaker, *Faculty Workshop*, University of Copenhagen School of Law, Center for Advanced Studies in Biomedical Innovation Law (Apr. 2019)
- Invited Presenter, *Changing Regulation of Pharmaceuticals: Issues in Pricing, Intellectual Property, Trade and Ethics Conference*, University of the Pacific School of Law (Apr. 2019)
- Invited Presenter, *Promises and Perils of Emerging Health Innovations*, Northeastern University School of Law (Apr. 2019)
- Panelist, *Bio Lawlapalooza*, Stanford Law School (Mar. 2019)
- Invited Speaker, *Vaccines and the Law*, Saint Louis University Health Law Association (Mar. 2019)
- Invited Panelist, *Jaharis Symposium on Health Law and Intellectual Property*, DePaul University College of Law (Mar. 2019)
- Invited Speaker, *Manzo Scholars in Patent Law Series*, DePaul University College of Law (Mar. 2019)
- Invited Speaker, Emory Law Faculty Colloquium (Feb. 2019)

- Invited Commentator, *Global Law Review Symposium*, Washington University School of Law (Feb. 2019)
- Presenter, *Junior Intellectual Property Scholars Association Workshop*, William & Mary Law School (Jan. 2019)
- Invited Speaker, *Public Health Conference*, Pontificia Universidad Javeriana of Bogotá, (Nov. 2018)
- Invited Presenter, *Intellectual Property Scholars Roundtable*, Texas A&M University School of Law (Oct. 2018)
- Presenter, *Health Law Scholars Workshop*, Saint Louis University of School of Law (Sept. 2018)
- Presenter, *Health and Social Justice Conference*, Saint Louis University (Sept. 2018)
- Panelist, *Wiet Life Sciences Law Scholars Conference*, Loyola University of Chicago School of Law (Sept. 2018)
- Panelist, *Intellectual Property Scholars Conference*, UC Berkeley School of Law (Aug. 2018)
- Presenter, *Junior Intellectual Property Scholars Association Workshop*, Northwestern University Pritzker School of Law (Jul. 2018)
- Invited Panelist, *2018 Life Sciences Conference*, American Bar Association Section of International Law, Copenhagen, Denmark (Jun. 2018)
- Panelist, *41th Annual Health Law Professors Conference*, Case Western Reserve University School of Law (Jun. 2018)
- Presenter, *Institute for Global Law and Policy 2018 Conference*, Harvard Law School (Jun. 2018)
- Invited Speaker, *Regulation and Innovation in The Biosciences Workshop*, Washington University in St. Louis School of Law (Apr. 2018)
- Panelist, *Bio Lawlapalooza*, Stanford Law School (Mar. 2018)
- Invited Panelist, *Jaharis Symposium on Health Law and Intellectual Property*, DePaul University College of Law (Feb. 2018)
- Presenter, *Junior Intellectual Property Scholars Association Workshop*, University of Oklahoma College of Law (Jan. 2018)
- Invited Speaker, *UCLA Law Review Scholar Forum*, UCLA Law School (Oct. 2017)
- Panelist, *Wiet Life Sciences Law Scholars Conference*, Loyola University of Chicago School of Law (Oct. 2017)
- Presenter, *University of Chicago Legal Scholarship Workshop*, University of Chicago Law School (Oct. 2017)
- Panelist, *Intellectual Property Scholars Conference*, Cardozo School of Law (Aug. 2017)
- Panelist, *40th Annual Health Law Professors Conference*, Georgia State University College of Law (Jun. 2017)

- Panelist, *National Business Law Scholars Conference*, University of Utah S.J. Quinney College of Law (Jun. 2017)
- Presenter, *Bio IP Workshop*, Loyola University of Chicago School of Law (May 2017)
- Invited Speaker, *Regulation and Innovation in The Biosciences Workshop*, University of Michigan Law School (Apr. 2017)
- Panelist, *Bio Lawlapalooza*, Stanford Law School (Apr. 2017)
- Presenter, *PatCon 7*, Northwestern School of Law (Apr. 2017)
- Guest Speaker (class), *Access to Medicines: Intellectual Property and Global Public Health*, Duke Law School (Feb. 2017)
- Invited Speaker, *WHO Consultation on Material Transfer Agreements*, Institut Pasteur, Paris, France (Dec. 2016)
- Panelist, *Law and Society Midwest Retreat*, Wisconsin University Law School (Nov. 2016)
- Panelist, *Annual Symposium on Health Law & Policy*, Loyola University Chicago School of Law (Oct. 2016)
- Speaker, *Regulating Innovation in Healthcare Symposium*, Nova Southeastern University (Oct. 2016)
- Invited Presenter, *Junior Health Law Scholar Workshop*, Loyola University Chicago School of Law (Sept. 2016)
- Panelist, *Intellectual Property Scholars Conference*, Stanford Law School (Aug. 2016)
- Panelist, *Association of University Technology Managers Annual Meeting*, Grand Hyatt San Diego (Feb. 2016)
- Invited Speaker, *Global Congress on Intellectual Property Rights and the Public Interest*, National Law University, New Delhi, India (Dec. 2015)
- Panelist, *Licensing Executives Society Annual Meeting*, Marriott Marquis, New York City (Oct. 2015)
- Panelist, *Reassessing International Economic Law and Development: New Challenges for Law and Policy*, Leonard B. Sutton Colloquium in International Law, Sturm College of Law, University of Denver (Nov. 2014)
- Panelist, *Poverty Law Conference*, American University Washington College of Law (Oct. 2013)
- Panelist, *Institute for Global Law and Policy 2013 Conference*, Harvard Law School (Jun. 2013)
- Speaker, *Intellectual Property for Creative Upstarts*, Michigan State University (Nov. 2012)
- Panelist, *Global Congress on Intellectual Property and the Public Interest*, American University Washington College of Law (Aug. 2011)

Speaker, *7th Annual International Conference on Law*, ATINER, Athens, Greece (Jul. 2010)

Panelist, *Beyond Law: At the Edges of Law's Ambit*, Osgoode Law School, Toronto, Canada (May 2010)

Invited Speaker, *Human Rights and New Technologies: The Challenges of Regulation*, European University Institute, Florence, Italy (Dec. 2008)

CONFERENCES ORGANIZED

Environmental Justice: At the Intersection of Climate Change and Public Health, Center for Health Law Studies Annual Symposium, Saint Louis University School of Law (Mar. 2022)

Misinformation/Disinformation and the Law, Center for International and Comparative Law Symposium, Saint Louis University School of Law (Feb. 2021)

Junior IP Scholars Association Workshop, Saint Louis University School of Law (Jan. 2020)

PEER REVIEW WORK

Yale Law Journal; Columbia Law Review; Yale Journal of Health Policy, Law and Ethics; Science; Vaccine; Health Affairs; American Journal of Public Health; American Journal of Law and Medicine; Journal of Law, Medicine & Ethics; Yale Journal of Biology and Medicine; Oxford Journal of Law and the Biosciences; Harvard Public Health Review; Johns Hopkins Journal of Health Security; Cambridge University Press; Review of International Political Economy; Oxford Journal of Medical Law; Journal of Law, Property, and Society; The Journal of World Intellectual Property; Journal of Intellectual Property Law and Practice; Routledge; Frontiers Microbiology; Blockchain in Healthcare Today; The Oriental Anthropologist

MEDIA

Quoted, Bloomberg Law, *Health Worker Vaccine Mandate Stays Intact as Pandemic Recedes*, Mar. 21, 2022

Quoted, Chemical Engineer, *'Biotech pioneer' Elizabeth Holmes found guilty of fraud*, Jan. 27, 2022

Interviewee, ABC News (Australia), *Rear Vision: The Pharmaceutical Industry*, Jan. 30, 2022

On-air radio interview, KMOX Saint Louis, *St. Louis Talks: The Supreme Court Blocks Vaccine-or-Test Rule*, Jan. 13, 2022

Interviewee, *All About Money*, Hong Kong International Business Channel., Jan. 9, 2022

Quoted, Bloomberg Law, *Pandemic Precedents Cast Shadow on Biden Shot-or-Test Rule*, Dec. 8, 2021

Interviewee, The Conversation Podcast, *Planet Pharma: What the Industry Got Out of COVID*, Dec. 2, 2021

- Quoted, Nature, *What the Moderna-NIH COVID Vaccine Patent Fight Means for Research*, Nov. 30, 2021
- Quoted, Weekendavisen (Denmark), *Vidundermidlet Bestikkelse* [article on payment for vaccination], Nov. 3, 2021
- Quoted, ABC-WFAA Dallas, *No, the Federal Government Can't Mandate Vaccines to the General Public. Here's Why*, Oct. 6, 2021
- Interviewee, NBC-KSDK Saint Louis, Evening News, *New Saint Louis County Mask Order*, Sept. 27, 2021
- Quoted, NPR, *CDC Warns Against Off-Label Use of COVID Vaccine*, Sept. 2, 2021
- Quoted, Chemistry World (U.K.), *US Grants Pfizer's Covid-19 Vaccine Full Approval*, Sept. 2, 2021
- Quoted, Business Insider, *How a New York Billionaire-Funded Anti-Vax Group is Contributing to the Vaccine Hesitancy That's Crippling the US Recovery*, Aug. 24, 2021
- Quoted, Saint Louis Post Dispatch, *Parson's Lottery May Not Move the Needle Much on Vaccination Rates*, Aug. 1, 2021
- Quoted, AFP Fact Check, *US Health Agencies Are Not Scrapping Common Coronavirus Test*, Jul. 29, 2021
- Quoted, Nashville Tennessean, *Tennessee Lawmakers Claimed Federal Law Blocks Vaccine Incentives. Here's Why They're Wrong*, Jul. 27, 2021
- Quoted, AFP Fact Check, *US Supreme Court Ruling Did Not Allow Patenting of Vaccinated People*, Jul. 20, 2021
- Quoted, British Medical Journal, *Donuts, Drugs, Booze, and Guns: What Governments are Offering People to Take Covid-19 Vaccines*, Jul. 13, 2021
- Interviewee, CBS-KMOV4 Saint Louis, *Evening News*, Jul. 7, 2021
- Quoted, ABC News (Australia), *TikTok Says Anti-Vaccine Misinformation Video from Conspiracy Theorist 'Doesn't Violate Guidelines'*, June 24, 2021
- Quoted, The Guardian, *Anti-Vax Group Mounts Legal Blitz to Sow Disinformation Against Vaccinations*, June 22, 2021
- Quoted, Forbes, *Employers Can Require Workers to Get Vaccinated, Government Says*, May 28, 2021
- Interviewee, Mandiner (Hungary) *The Waiver of Patent Rights Is Not the Appropriate Tool to Address Vaccine Scarcity* May 28, 2021
- Quoted, *Federal Law Does Not Prevent States, Businesses, Employers from Requiring COVID-19 Vaccines*, USA Today, May 25, 2021
- Quoted, Popular Science, *The US Joined the Push to Waive COVID-19 Vaccine Patents. Will it Actually Help?*, May 13, 2021
- Quoted, Washington Examiner, *High-tech Problem for Joe Biden's COVID Vaccine Patent Waiver*, May 8, 2021
- Quoted, L.A. Times, *Biden's Plan to Waive Vaccine Patents is Good News, But Not Enough to Beat the Pandemic*, May 6, 2021
- Feature interviewee, Público (Portugal), *Contracts are Key to Increasing Production of COVID-19 Vaccines*, May 7, 2021
- Quoted, France 24, *Vaccin Anti Covid-19: La Levée Des Brevets, Un Long Parcours D'obstacles*, May 6, 2021

- Quoted, N.Y. Times, *Taking 'Extraordinary Measures,' Biden Backs Suspending Patents on Vaccines*, May 5, 2021
- Quoted, Observer, *Success of COVID-19 Vaccines Reveals Killer Flaws in Big Pharma's Vaccine Market*, Mar. 26, 2021
- Quoted, The World (International Public Radio), *A Canadian Company Challenges Vaccine Rules to Increase Access*, , Mar. 26, 2021
- Quoted, N.Y. Times, *Rich Countries Signed Away a Chance to Vaccinate the World*, Mar. 21, 2021
- Quoted, Aljazeera, *The Battle to Stop the Spread of Vaccine Misinformation Online*, Mar. 12, 2021
- Quoted, Global News (Canada), *Downtown Eastside Residents Offered \$5 After Getting COVID-19 Vaccine*, Mar. 1, 2021
- Quoted, Gothamist, *Some Employers Are Paying People To Get Vaccinated. Can Money Overcome Hesitancy?*, Jan. 21, 2021
- Quoted, The Leaflet, *How Long Must Poorer Nations Wait for Access to Covid Vaccine?*, Jan. 7, 2021
- Quoted, Bloomberg Law, *Cuomo Keeps Up Vaccine Pressure on Hospitals, Downplays Fines*, Jan. 6, 2021
- Quoted, BGR, *You'll Love This Brilliant Stimulus Check Idea That Would Get You an Extra \$400*, Dec. 24, 2020
- Quoted, Global News (Canada), *Ian McKellen, Biden — and Trudeau? Experts Torn on When VIPs Should Get COVID-19 Shot*, Dec. 17, 2020
- Interviewee, Telemundo, *News on COVID-19 and Vaccine*, Dec. 15, 2020 (in Spanish)
- Interviewee, NBC-KSDK Saint Louis, *Evening News*, Dec. 14, 2020
- Interviewee, ABC- KMBC Kansas City, *Afternoon News*, Dec. 8, 2020
- On-air interview, CBS New Radio Los Angeles, *In Depth*, Dec. 7, 2020
- Quoted, Law 360, *Moderna, Pfizer Playing the Long Game with Novel Vaccine IP*, Dec. 1, 2020
- Quoted, Quartz, *How Drug Companies Will Profit from Making COVID-19 Vaccines*, Dec. 1, 2020
- Quoted, *The COVID-19 Vaccine: China's Position*, El País (Spain), Nov. 30, 2020
- Quoted, Chemistry World (U.K.), *Rush to approve COVID Vaccine Prompted by Politics May End in Disaster*, Sept. 16, 2020
- Quoted, Jacobin Magazine, *The United States Should Not Be Hoarding Its Coronavirus Research*, Aug. 9, 2020
- Quoted, Zing News (Vietnam), *Have China and Wealthy Countries Entered into a COVID-19 Vaccine War?*, Aug. 9, 2020
- Interviewee, Australian Broadcasting Company, *Who's First in Line for a COVID-19 Vaccine?*, Aug. 7, 2020
- Quoted, In These Times, *The Search for a COVID Vaccine Is Not an Arms Race*, Aug. 3, 2020
- Quoted, Vox, *The Global Risk of Vaccine Nationalism*, Jul. 27, 2020
- Quoted, Asahi Shimbun (Japan), *If There Is a Surplus of COVID Vaccines, Will Distribution Be Delayed in Developing Countries?*, Jul. 20, 2020
- Quoted, South China Morning Post, *The Life or Death Question: Who Gets the COVID-19 Vaccine?*, May 25, 2020

- Quoted, Saint Louis Post-Dispatch, *Missouri Attorney General Sues China Over Coronavirus Pandemic*, Apr. 21, 2020
- Guest Speaker, NY State Science & Technology Law Center Webcast, *Pandemics, Vaccines and IP*, Mar. 31, 2020
- Quoted, Washington Times, *Johnson & Johnson Says It Has 'Promising' Vaccine Candidate for Coronavirus*, Mar. 30, 2020
- Quoted, Saint Louis Post-Dispatch, *In One Week, Missouri Saw A 600% Jump in Coronavirus Cases — The Largest Increase in The Country*, Mar. 30, 2020
- Interviewee, Evening News, NBC-KSDK Saint Louis, Mar. 27, 2020
- Interviewee, Evening News, CBS-KMOV Saint Louis, Mar. 26, 2020
- On-air radio interview, KMOX Saint Louis, *The Charlie Brennan Show*, Mar. 17, 2020
- Quoted, Mercury News, *Coronavirus: The Global Race to Patent a Remedy*, Feb. 13, 2020
- Quoted, Vice, *Anti-Vaxxers Are Back on Instagram Thanks in Part to #MAGA*, Jan. 28 2020
- Quoted, Olhar Digital: Ciência e Espaço (Brazil), Jan. 24, 2020
- Guest, The Big Mouth Pharmacist Podcast, Oct. 25, 2019
- Quoted, Faktograf (Croatia), Oct. 7, 2019
- Guest, The Week in Health Law, Apr. 23, 2019
- Guest, Society 2.0 Podcast, Nov. 16, 2018
- Quoted, Columbia Chronicle, *House Bill Aims to Gouge the Gougers*, Mar. 3, 2018
- Host, Jaharis Podcast on Health and IP, 2017-2018
- Guest webcast speaker, NY State Science & Technology Law Center Webcast, *The IP of Ebola and Zika*, Apr. 26, 2017
- On-air interview, BYU Radio, *The Matt Townsend Show*, Sept. 29, 2016