Law, Technology, and Competition at Penn
2022–2023
Law, Technology, and Competition at Penn

2022–2023
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Message from the Directors

Dear Friends of CTIC,

We are pleased to present CTIC’s annual report for 2022-2023, a year marked by a notable faculty development and a dynamic roster of activity.

Rejoining CTIC is Gus Hurwitz, the Center’s new Senior Fellow and Academic Director. With a background in law, technology, and economics, Gus focuses his work on the interface between law and technology and the role of regulation in high-tech industries. Gus was CTIC’s inaugural research fellow, and after serving as a technology and governance professor at the University of Nebraska College of Law, he has returned. We are delighted.

CTIC was remarkably active in 2022-2023 in planning, presenting, and co-sponsoring almost two dozen events ranging from CTIC symposia, roundtables, book talks, and student career sessions to CTIC-sponsored conferences presented by Penn Carey Law student groups. CTIC also continued its event collaborations with the law schools at Harvard, Stanford, and NYU, among others, as well as with other University of Pennsylvania schools and centers such as the Penn Program on Regulation, Warren Center for Network & Data Sciences, and Department of Medical Ethics and Health Policy at Perelman School of Medicine. It was an enriching year for all.

Two major initiatives, Economics of Digital Services (EODS), a Knight Foundation-funded project, and 1 World Connected, a research project aimed at helping to close the global digital divide, carried on and produced new findings and recommendations on the antitrust implications of data use by online platforms and ways to bring the unconnected online, respectively. The report provides more detail on the accomplishments of both.

CTIC is grateful to its Penn colleagues, global collaborators and participants, donors, and friends for their extraordinary contributions to the Center’s work and success during the 2022-2023 academic year. CTIC is especially indebted to Penn Carey Law for its steadfast support. With such helping hands, CTIC has once again affirmed its status as one of the world’s leading academic centers on law and technology.

R. Polk Wagner
Michael A. Fitts Professor of Law and
CTIC Co-Director

Christopher Yoo
John H. Chestnut Professor of Law,
Communication, and Computer & Information Science and CTIC Founding Director
About CTIC

CTIC’s mission is to forge a collaborative community of innovative researchers and students committed to learning and advancing the discipline of law and technology. The Center focuses its work in six areas: Competition Law, Intellectual Property, Internet & Privacy Law, Emerging Technologies, Health Care & Life Sciences Law, and Entertainment & Media Law. It accomplishes its mission in three ways.

CTIC conducts cutting-edge research and produces pathbreaking projects, publications, and events that explore the full range of scholarly perspectives.

CTIC helps students and the next generation of scholars, policymakers, and practitioners better position themselves to contribute to and enrich today’s technologically dynamic world through innovative law and technology curricula, joint degree programs, fellowships and internships, and engagement with technology-focused student groups at the law school and elsewhere in the Penn community.

CTIC educates policymakers and the public on critical issues where law and technology converge. We invite agency officials and their staff, international academics, and interested individuals to attend CTIC symposia and other events, and promote research findings, commentary, and other publications.

CTIC draws upon the expertise of Penn Carey Law’s nationally and internationally recognized law and technology faculty as well as experts from University of Pennsylvania’s School of Engineering and Applied Science (SEAS), Warren Center for Network & Data Sciences, Wharton School, Department of Medical Ethics and Health Policy at Perelman School of Medicine, and other renowned Penn schools and centers. CTIC also collaborates with other law schools and their technology centers on events covering developments in law and STEM, intellectual property, and other areas.
CTIC Faculty
R. POLK WAGNER

“It is not possible to overstate the importance of claim construction to the soundness of the patent system, especially including patent quality. Unless and until all persons involved—the patentee, the examiners, the courts, and the competitors or the public—have a framework for agreement concerning the scope of a patent claim, there is almost no point in trying to do anything else.”
R. Polk Wagner is an expert in intellectual property with a focus on patent law. A frequent lecturer on intellectual property topics worldwide, he has written more than 20 articles on topics ranging from an empirical analysis of judicial decision-making in patent law to the First Amendment status of software programs. Wagner is an Edison Distinguished Scholar and an expert consultant at the United States Patent and Trademark Office (USPTO), researching topics related to patents and patent law and advising agency leaders on policy matters. Wagner was Deputy Dean of Penn Carey Law from 2017 to 2019 and received the Robert A. Gorman Award for Excellence in Teaching in 2015. Before joining the Penn Carey Law faculty in 2000, Wagner served as a law clerk to the Honorable Raymond C. Clevenger III of the U.S. Court of Appeals for the Federal Circuit. He was the 1994-1995 Roger M. Jones Fellow at the London School of Economics.

**Expertise**


**Education**

JD 1998 Stanford Law School
BSE 1993 University of Michigan
BS 1993 College of Charleston

**Courses Taught**

- Patent Law
- Introduction to Intellectual Property Law and Policy
- Patent Law Appellate Advocacy
- Property Law
- ML: Introduction to Patent Law Online

**Representative Publications**


CHRISTOPHER S. YOO

“This year, I have the honor of serving as a member of the National Academies of Sciences, Engineering, and Medicine’s (NASEM) Committee on the Impact of Social Media on the Health and Wellbeing of Adolescents and Children. Like all the National Academies’ projects, this Committee is charged with basing its recommendations firmly on the best available scholarly literature. This commitment to evidence-based decision-making should provide an important counterbalance to the tendency in much of the current discourse to base policy recommendations on assumptions and anecdotes.”
Christopher S. Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science; Founding Director, CTIC

Christopher S. Yoo is one of the world’s leading authorities on law and technology and is recognized as one of the most cited scholars in administrative, regulatory, and intellectual property law. His major research projects include examining antitrust law as applied to big tech companies, empirically studying innovative ways to connect more people to the Internet, using technological principles to inform how the law can promote optimal interoperability, protecting privacy and security for the Internet’s routing architecture, and studying copyright theory as well as network neutrality. The author of 115 scholarly works, Yoo testifies frequently before the U.S. Congress, Federal Communications Commission (FCC), Federal Trade Commission (FTC), U.S. Department of Justice (DOJ), foreign governments, and international organizations. He is a sought-after speaker by conference and symposium organizers and sponsors around the globe, including U.S. and international law schools and academic centers; legal, telecom, and other technology associations; and various academies. He has been appointed by the United Nations and other international bodies to serve as rapporteur of sessions on digital access, economic affairs, and competition developments. Before joining the academy, Yoo served as a law clerk to the Honorable Associate Justice Anthony M. Kennedy of the U.S. Supreme Court and the Honorable A. Raymond Randolph L’69 of the U.S. Court of Appeals for the D.C. Circuit. He was an associate articles editor of the Northwestern University Law Review.

Expertise
Internet and Communications Law, Antitrust, Privacy Law, Copyright, Mass Media Law, Law and Technology, Regulated Industries, Presidential Power, First Amendment, Cyberwar

Secondary Appointments
Annenberg School for Communication
Computer and Information Science Department, School of Engineering and Applied Science

Education
JD 1995 Northwestern University Pritzker School of Law
MBA 1991 Anderson School, University of California, Los Angeles
AB 1986 Harvard University

Courses Taught
- Internet Law
- Antitrust
- Privacy
- Copyright Theory
- Technology and Policy
- Introduction to Intellectual Property
- Artificial Intelligence and the Law
- Law & Innovation Seminar
- Intellectual Property Scholarship

Recent Publications
An Evidence-Based Approach to Fourth Amendment Values (with Arnab Jagasia) (forthcoming 2024).
Optimizing Cybersecurity Risk in Medical Cyber-Physical Devices, 64 WM. & MARY L. REV. 1513 (2023) (with Bethany Lee).
Community Networks as Models to Address Connectivity Gaps in Underserved Communities, 38 INFO. DEV. (2022) (with Leon Gwaka & Müge Haseki).
The internet is in the Supreme Court’s hands, LOS ANGELES TIMES, Oct. 31, 2022, at A11.
When big was not bad: Lessons from Congress’s decisions not to enact antitrust reform, THE HILL, Sept. 7, 2022.
“Large language models (LLMs) hold the promise of revolutionizing empirical legal research but have significant potential drawbacks. ‘Hallucinations’ limit their utility for applications where precision is essential. In a new collaboration with computer scientists, we are exploring ways to overcome these limitations, with many potential applications.”
David S. Abrams is one of the leading economists working in empirical law and economics. His work covers a range of topics, tied together by the goal of understanding and measuring how individuals respond to incentives in various legal contexts. In the area of criminal justice, a major area of expertise, Abrams has investigated whether longer sentences deter crime, how a defendant's race impacts judicial decisions, to what extent attorney skill affects case outcomes, and how much individuals value freedom. Intellectual property is Abrams's other major area of expertise. He has investigated the expected impact of the America Invents Act, examined the effect of patent duration on innovation, and is using natural language processing to establish more reliable measures of patent value. His additional interests are law and health economics, labor economics, and corporate finance. His work has appeared in top peer-reviewed journals and law reviews, including the Stanford Law Review, University of Chicago Law Review, University of Pennsylvania Law Review, American Economic Journal: Applied Economics, and Journal of Legal Studies.

Expertise
Law and Economics, Intellectual Property, Criminal Law, Patent Law

Secondary Appointments
Business Economics and Public Policy, The Wharton School

Education
PhD 2006 Massachusetts Institute of Technology
MS 2001 Stanford University
AB 1998 Harvard University

Courses Taught
• Introduction to Intellectual Property Law and Policy
• Patent Law
• Law and Economics
• Analytical Methods in Law

Representative Publications

Recent Publications


CYNTHIA L. DAHL

“Technological change constantly challenges our assumptions in intellectual property law. When we face questions about what we as a society want to support and even incentivize, it is incredibly exciting to debate these issues with the next generation of practitioners.”
Cynthia L. Dahl
Practice Professor of Law; Director, Detkin Intellectual Property and Technology Legal Clinic

As Director of the Detkin Intellectual Property and Technology Legal Clinic, Cynthia L. Dahl specializes in counseling clients on creating economic value through protecting intellectual property and technological innovation. Before joining Penn Carey Law, Dahl practiced for 10 years as Senior IP Counsel for TruePosition, Inc., a Liberty Media-owned international wireless location company, where she managed the patent portfolio for the parent company and three start-up entities, drafted and executed all IP agreements, and oversaw standards-setting activities. Before practicing in house, she worked as an IP litigation associate at Holland & Hart LLP and Pennie & Edmonds LLP. Dahl counseled artists for Volunteer Lawyers for the Arts and held several positions in policy and the press, including working for Senator Bill Bradley (D-NJ) and Nina Totenberg of National Public Radio. Her scholarly work suggests new designs for teaching students practicing at the intersection of law, business, and technology, particularly concerning how best to introduce law students to the mindsets and mores of engineers and other non-legal professionals. She is also interested in university technology transfer and the ethics and privacy implications of the use of certain technologies by lawyers and the clients they represent.

Expertise
Intellectual Property, Law and Technology, Social Media

Education
JD 1998 Stanford Law School
BA 1991 Yale University

Courses Taught
- Detkin Intellectual Property and Technology Legal Clinic
- Advanced Intellectual Property Clinic
- Externship, Penn Office of Audit, Compliance and Privacy
- Independent Study, Keiretsu Forum

Representative Publications
Did the America Invents Act Change University Technology Transfer?, 19 TEX. INTELL. PROP. L.J. 1 (2021).

Reviewing Inter Partes Review Five Years In: The View from the University Technology Transfer Offices, in RESEARCH HANDBOOK ON INTELLECTUAL PROPERTY AND TECHNOLOGY TRANSFER 339 (Edward Elgar 2020).


Recent Publications

ALLISON K. HOFFMAN

“Health care continues to pose challenging and interesting questions at the forefront of critical areas of law, policy, and regulation, including public health care financing, antitrust law and policy, administrative law, and public health regulation.”
Allison K. Hoffman

Professor of Law; Deputy Dean

Allison K. Hoffman is an expert in health care law and policy. Her work examines some of the most important legal and social issues of our time, including the Affordable Care Act, Medicare and retiree health care expenses, and long-term care. In summer 2020, Hoffman co-taught a class on COVID-19 and the law. In 2018, she received the Robert A. Gorman Award for Excellence in Teaching.

Hoffman has extensive experience working as a lawyer and business consultant in the health care industry. She practiced law at Ropes & Gray LLP, where she counseled clients on health care regulatory matters. She has also provided strategic business advice to health care companies as a consultant at the Boston Consulting Group and the Bridgespan Group. From 2010 to 2017, Hoffman was a member of the UCLA School of Law faculty and before that, a fellow at Harvard’s Petrie-Flom Center for Health Law Policy, Biotechnology, and Bioethics. Hoffman graduated summa cum laude from Dartmouth College and from Yale Law School, where she was Submissions Editor for the Yale Journal of Health Policy, Law, and Ethics.

Expertise

Education
JD 2004 Yale Law School
AB 1998 Dartmouth College

Courses Taught
• Health Law Reform
• Torts
• Health Law and Policy

Representative Publications


Reimagining the Risk of Long-Term Care, 16 Yale J. Health Pol’y L. & Ethics 239 (2016).


Recent Publications
The Scope and Legal Implications of Tracking Technologies on Hospital Websites, JAMA (June 29, 2023) (with Matthew McCoy & Ari Friedman).


A Review of Health Care in the Court, Regul. Rev. (July 18, 2022).

How a Pandemic Plus Recession Foretell the Post-Job-Based Horizon of Health Insurance, 71 DePaul L. Rev. 1201 (2022).
“Examining a 15-year sample of Philadelphia evictions, we found that tenants who had to travel longer to get to court were more likely to not appear and contest their evictions, and consequently, courts end up entering default judgments against them. But during the COVID-19 pandemic when tenants could appear via Zoom, and in public housing evictions where they have more procedural protections, the adverse effect of transit barriers disappears. Thus, to improve access to justice, we recommend courts allow for more flexible and remote scheduling.”
David A. Hoffman writes about all aspects of contracting theory and practice, informed by empirical evidence. His recent work on form contracts—for both consumers and residential tenants—explores the relationship between falling transaction costs and the proliferation of aversive written agreements. A different set of papers examined the technical and legal aspects of transactions occurring on and through blockchains. Recent work includes scholarship on how disruptive changes (like the COVID-19 pandemic) in contract practices cause courts to consider how they treat third-party interests, and a paper with a (then) Penn Carey Law student that argues that nondisclosure clauses in employment contracts violate public policy. Other recent scholarship, using qualitative and experimental methods, focuses on how individuals experience contracting online and what extra-legal goals firms might seek to accomplish using the “terms and conditions.” His latest paper in this area highlights expectations about contract remedies. Hoffman’s scholarly work on leases and evictions sparked a project with multiple Penn Carey Law students: a short, fair, legal, and free model lease for Philadelphia.

Expertise
Contracts, Social Science and the Law, Law and Economics, Behavioral Economics, Corporate and Financial Law, Legal Process and Dispute Resolution

Education
JD 2001 Harvard Law School
BA 1998 Yale University

Courses Taught
- Contracts
- Advanced Topics in Contracts
- Empirical Approaches to Contract Law
- Corporations

Representative Publications


Recent Publications


*Longer Trips to Court Cause Evictions*, 120 PNAS e2210467120 (2023) (with Anton Strezhnev).


HERBERT HOVENKAMP

“Promoting competitive consumer and labor markets in a time of great change and uncertainty.”
Herbert Hovenkamp
James G. Dinan University Professor

Herbert Hovenkamp is a recognized expert and prolific author in the areas of antitrust law and American legal history. Hovenkamp was named a Penn Integrates Knowledge Professor in 2017, part of a university-wide initiative to integrate research across different educational disciplines. He holds appointments in the University of Pennsylvania Carey Law School and Department of Legal Studies and Business Ethics at the Wharton School. Before joining the University of Pennsylvania, Hovenkamp was a law professor at the University of Iowa and the University of California, Hastings College of the Law. Hovenkamp is a Fellow of the American Academy of Arts and Sciences. He has been a Rockefeller Foundation Fellow and Fellow of the American Council of Learned Societies at Harvard Law School, a Faculty Scholar and Presidential Lecturer at the University of Iowa, and a recipient of the John Sherman Award from the U.S. Department of Justice. He was awarded a Penn Carey Law LLM teaching award in 2019.

Expertise
Antitrust, Torts, Intellectual Property, American Legal History

Secondary Appointments
Legal Studies and Business Ethics Department, The Wharton School

Education
JD 1978, PhD 1976, MA 1971 University of Texas
BA 1969 Calvin College

Courses Taught
• Antitrust
• Antitrust: Mergers, IP & Vertical Restraints
• Law and Commerce in American History
• Torts

Representative Publications
ANTITRUST LAW: AN ANALYSIS OF ANTITRUST PRINCIPLES AND THEIR APPLICATION (Kluwer/Aspen, 4th & 5th eds. 1978-2022) (with Phillip Areeda et al.).


Recent Publications


The Invention of Antitrust, 96 S. CAL. L. REV. 129 (2023).


Selling Antitrust, 73 HASTINGS L.J. 1621 (2022).
GIDEON PARCHOMOVSKY

“I advocate a reconceptualization of patent law: do away with the USPTO’s sole criterion—whether an invention is patentable—and instead implement a mechanism of ‘patent scores.’ After the USPTO decides that an invention is patentable, it should then apply a 1-5 qualitative scale to the invention, which would determine, among other things, its protection term. This novel design for the patent system would significantly improve its functioning.”
Gideon Parchomovsky specializes in intellectual property, property law, and cyber law. He has made significant contributions to the field through his wide-ranging scholarship, having written numerous articles for major law reviews on property and liability rules, insider trading, trademarks, domain names, and patents. Recently, he has been advocating for a comprehensive property theory and for the need to introduce a value-oriented theory. Parchomovsky received the LLM teaching award for 2014-2015, the Harvey Levin Memorial Award for Teaching Excellence for 2012-2013, and the A. Leo Levin Award for Excellence in an Introductory Course for 2010-2011.

Expertise
Intellectual Property, Property Law, Information Law

Education
JSD 1998 Yale Law School
LLM 1995 University of California, Berkeley
LLB 1993 Hebrew University of Jerusalem

Courses Taught
- Property Law
- Copyright Law
- Impact of the Internet on Copyright and Patent Law
- Trademarks

Representative Publications

Recent Publications
*Preliminary Damages*, 75 VAND. L. REV. 239 (2022) (with Alex Stein).
JENNIFER E. ROTHMAN

“The next Brooke Shields should not be at risk of having their name, likeness, or voice owned by someone other than themselves. And neither should the growing number of student-athletes who are being thrust into the marketplace as children. State publicity laws that protect against unauthorized uses of a person’s name, likeness, or voice can be drafted or interpreted to preclude such transfers, but thus far, the law is racing in the opposite direction. The history of exploitation of child performers provides us with a poignant lesson in why we need to stop this trend, and firmly root a person’s right to their own identity solely in themselves. This is especially true when it comes to children.”

— from What Happened to Brooke Shields Was Awful. It Could Have Been Even Worse, SLATE, April 18, 2023
Jennifer E. Rothman is nationally recognized for her scholarship in the field of intellectual property law. She is the leading expert on the right of publicity and is frequently sought after to consult on legislation, high-profile litigation, and the development of creative projects. In addition to focusing on conflicts between intellectual property rights and other constitutionally protected rights such as the freedom of speech, her scholarship explores the intersections of tort and property law, particularly in the context of the right of publicity, copyright, trademark, and unfair competition law. Rothman’s current research focuses on the ways intellectual property law is employed to turn people into a form of property and how it regulates the production and content of expression. Her most recent article appears in the *Harvard Law Review* and addresses what she calls an “identity thicket” of overlapping and conflicting rights over a person’s identity. Her recent book, *The Right of Publicity: Privacy Reimagined for a Public World*, published by Harvard University Press, has been described as the “definitive biography of the right of publicity.” She is the author of *Rothman’s Roadmap to the Right of Publicity*, the preeminent website for all things related to the right of publicity (www.rightofpublicityroadmap.com).

Before joining the Penn Carey Law faculty in 2021, Rothman held the William G. Coskran Chair at LMU Loyola Law School in Los Angeles, where she received the 2019-2020 David P. Leonard Faculty Service Award for outstanding teaching and service. From 2005 to 2007, she was an associate professor at Washington University School of Law in St. Louis. Rothman is an elected member of the American Law Institute (ALI) and an adviser on the *Restatement of the Law (Third) of Torts: Defamation and Privacy*. She is also an affiliated fellow at the Yale Information Society Project at Yale Law School.

**Expertise**

- Trademarks & Unfair Competition
- Right of Publicity
- Copyright
- Torts
- First Amendment
- Intellectual Property Theory
- Entertainment & Media Law
- Privacy Law

**Secondary Appointments**

- Annenberg School for Communication

**Education**

- JD University of California, Los Angeles School of Law
- MFA University of Southern California, School of Cinematic Arts
- AB Princeton University

**Courses Taught**

- Introduction to Intellectual Property Law and Policy
- Trademarks and Unfair Competition
- Right of Publicity
- Torts
- First Amendment

**Representative Publications**


**Recent Publications**

“In the American moral vernacular, we have a whole thesaurus for victims of exploitation. They are suckers (born every minute), fools (not suffered gladly), dupes, marks, chumps, pawns, and losers. Fool me once, shame on me; fool me twice, shame on you; if you believe that, I’ve got a bridge to sell you. But what, exactly, is so bad about feeling suckered? Why is its sting so sharp, and why does it last so long? Most people will recognize the urge to recoil at the prospect of suckerdom, the potent combination of dread and disdain. But for a familiar, intuitive experience, one that we talk about socially, reinforce culturally, and ruminate on personally, the fear of being played for a fool gets remarkably little attention as a coherent phenomenon.”

— from Fool Proof: How Fear of Playing the Sucker Shapes Ourselves and the Social Order—and What We Can Do About It (HarperCollins 2023)
Tess Wilkinson-Ryan

Professor of Law and Psychology

Tess Wilkinson-Ryan studies the psychology of legal decision-making, particularly the role of moral judgment, with a focus on private contracts and negotiations. Her experimental work uses methods from psychology and behavioral economics to ask how people draw on their moral intuitions to motivate or inform legal choices. Her research topics have included statutory damages in copyright law, online contracting, and retirement investing. In 2023, she published her first book, *Fool Proof: How Fear of Playing the Sucker Shapes Ourselves and the Social Order—and What We Can Do About It*, which brings her social science perspective to transactions of all kinds—contractual, familial, and even political—to argue that the deep psychological aversion to feeling scammed is an underappreciated motivator of human behavior. In 2012, Wilkinson-Ryan was awarded the A. Leo Levin Award for Excellence in an Introductory Course and in 2014 the Harvey Levin Memorial Award for Teaching Excellence. She was an associate editor of the *University of Pennsylvania Law Review*.

**Expertise**

Contracts, Behavioral Economics, Law and Social Sciences

**Education**

PhD 2008, MA 2006, JD 2005 University of Pennsylvania

BA 1999 Harvard University

**Courses Taught**

- Contracts
- Psychology of Legal-Decision Making
- Consumer Law

**Representative Publications**


*Judging Similarity*, 100 Iowa L. Rev. 267 (2014) (with Shyamkrishna Balganesh & Irina Manta).


**Recent Publications**


JUSTIN (GUS) HURWITZ

“The most interesting work today is at the intersection of engineering, business, and law. Studying the foundational concepts needed to work across these disciplines is as necessary as it is rewarding—both as a researcher doing work at the intersection of these fields and also for students who will go on to be leaders in them.”
Justin (Gus) Hurwitz's work builds on his background in law, technology, and economics to consider the interface between law and technology and the role of regulation in high-tech industries. He is Director of Law & Economics Programs at the International Center for Law & Economics (ICLE), a think tank based in Portland, Oregon, where he directs its law and economics-focused research program and helps to translate academic research into applied policy issues. He has expertise in telecommunications law and technology, including data- and cybersecurity, and was recognized as a Cyber Security & Data Privacy Trailblazer by The National Law Journal. His work has appeared in numerous law reviews and journals across the country. It has also been cited by the Federal Communications Commission (FCC), Federal Trade Commission (FTC), federal district and circuit court judges, and U.S. senators, and he has spoken or testified before the committees of the U.S. Senate and House of Representatives, FCC, FTC, the U.S. Army’s 7th Signal Command, and German and Colombian competition regulators.

Hurwitz was a full professor and the founding director of the Governance & Technology Center at the University of Nebraska College of Law, prior to which he was the inaugural research fellow at CTIC. From 2007 to 2010, he was a trial attorney with the U.S. Department of Justice (DOJ) Antitrust Division in the Telecommunications and Media Enforcement Section. Before attending law school, Hurwitz worked at Los Alamos National Lab and interned at the Naval Research Lab. During this time his work was recognized by the Federal Laboratory Consortium, Los Alamos National Lab, Institute of Electrical and Electronics Engineers (IEEE) and Association for Computing Machinery (ACM), Corporation for Education Network Initiatives in California (CENIC), R&D Magazine, and even the Guinness Book of World Records.

**Expertise**

Administrative, Regulatory, and Compliance Law; Antitrust; Intellectual Property and Technology Law; Law and Economics

**Education**

JD 2007 University of Chicago  
MA 2011 George Mason University  
BA 2003 St. Johns College

**Courses Taught**

- Cybersecurity Law & Policy  
- Internet Law  
- Law & Economics  
- Regulation of Networks and Infrastructure  
- Technology Governance: Concepts  
- Technology Law & Ethics  
- Telecommunications Law & Policy  
- Torts

**Representative Publications**

**Cybersecurity: An Interdisciplinary Problem** (West 2021) (with Derek Bambauer, David Thaw & Charlotte Tschider).

*Designing a Pattern, Darkly*, 20 N.C. J.L. & Tech. 57 (2020).


**Recent Publications**


What’s an agency to do? That’s for Congress to say, The Hill, June 6, 2023.


What is a Law and Political Economy Movement without Law and Economics or Political Economy?, 17 J.L. Econ. & Pol’y 773 (2022).

*FTC Could Soon Face High Court Reprimand*, Real Clear Pol’y (Oct. 11, 2022).

What the FAA-FCC Fight Can Teach Us About Our Approach to Risk, Real Clear Pol’y (Jan. 18, 2022).
Anita L. Allen is internationally renowned as an expert on philosophical dimensions of privacy and data protection law, ethics, bioethics, legal philosophy, women’s rights, and diversity in higher education. She received the 2021 Philip L. Quinn Prize for service to philosophy and philosophers by the American Philosophical Association (APA), the 2022 Founder’s Award by the Hastings Center for service to bioethics, the 2022 Privacy Award of the Berkeley Center for Law & Technology (BCLT) for groundbreaking contributions to privacy and data protection law, and a 2023 Policy Paper Award of the Future of Privacy Forum (FPF). Allen is an elected member of the National Academy of Medicine (NAM), American Law Institute (ALI), and APA. She currently serves on the Board of the National Constitution Center and Advisory Board of the Electronic Privacy Information Center (EPIC) whose Lifetime Achievement Award she has received. Allen is a member of the Pennsylvania and New York bars and taught at Georgetown University Law Center and the University of Pittsburgh School of Law after practicing at Cravath, Swaine & Moore LLP. At Penn, she was Vice Provost for Faculty from 2013 to 2020 and is a faculty affiliate of the Leonard Davis Institute of Health Economics, Africana Studies Department, Center for Ethics and the Rule of Law (CERL), and Warren Center for Network and Data Sciences.

Expertise
Privacy and Data Protection Law, Philosophy of Privacy, Ethics, Bioethics, Philosophy of Law, Torts, Constitutional Law, Health Law, Non-Profit Organizations, Diversity, Equity and Inclusion in Higher Education

Secondary Appointments
Philosophy Department, School of Arts and Sciences

Anita L. Allen
Henry R. Silverman Professor of Law and Professor of Philosophy

Education
JD 1984 Harvard University
PhD, MA 1980 University of Michigan
BA 1974 New College of Florida

Courses Taught
• Privacy Law
• Privacy and Racial Justice
• Torts
• Introduction to Ethics
• Bioethics and the Law of Mental Health
• African American Philosophy Since 1960
• Bioethics of Reproduction, Mental Health and Moral Life
• Higher Education Law and Policy

Representative Publications
Dismantling the “Black Opticon”: Privacy, Race, Equity, and Online Data-Protection Reform, 131 Yale L.J. Forum 907 (2022).
How Should Clinicians Own Their Roles as Past and Present Exacerbators of Health Inequity and as Present and Future Contributors to Health Equity?, 24 AMA J. Ethics 1121 (2022) (with Lisa Lee).
Tom Baker is a highly regarded insurance expert, leading scholar of insurance law and policy, and devoted law teacher. His research explores insurance law, institutions, and markets using methods from history, economics, psychology, and sociology. His many books, articles, and reports address such topics as the impact of insurance on personal injury and securities litigation, health insurance reform, insurance underwriting and claims management, the historical development of insurance institutions, insurance company restructuring, and many aspects of insurance coverage. His current research topics include cyber liability and insurance, litigation finance, secondary insurance markets, and the empirical study of insurance litigation. Baker served as the Reporter for the American Law Institute (ALI) Restatement of the Law, Liability Insurance, and is a co-founder of Picwell, a health data analytics company recently acquired by JellyVision that provides advanced decision support tools to health insurance exchanges, insurers, and employers. Before joining the Penn Carey Law faculty in 2008, Baker served for 11 years as the inaugural Connecticut Mutual Professor and Director of the Insurance Law Center at the University of Connecticut. After graduating from Harvard Law School, Baker clerked for the Honorable Juan R. Torruella of the U.S. Court of Appeals for the First Circuit, practiced with the law firm of Covington & Burling LLP, served as Associate Counsel to the Independent Counsel Iran/Contra, and entered law teaching as an associate professor at the University of Miami Law School.

**Expertise**


**Secondary Appointments**

Business Economics and Public Policy Department, The Wharton School

**Education**

JD 1986, AB 1982 Harvard University

**Courses Taught**

- Torts
- The Fintech Challenge
- Insurance Law and Policy
- Financial Regulation Law and Policy
- Regulation of Health Insurance Markets
- Risk Management
- Insurance Insolvency
- Liability and Insurance

**Representative Publications**

ENSURING CORPORATE MISCONDUCT: HOW LIABILITY INSURANCE UNDERMINES SHAREHOLDER LITIGATION (Univ. of Chicago 2010) (with Sean Griffith).

THE MEDICAL MALPRACTICE MYTH (Univ. of Chicago 2005).


Cary Coglianese specializes in the study of regulation and regulatory processes with an emphasis on the empirical evaluation of alternative regulatory strategies and the role of public participation, technology, and business-government relations in policymaking. Coglianese is a senior fellow of the Administrative Conference of the United States and previously chaired its Committee on Rulemaking. He is also a co-chair of the American Bar Association (ABA) Administrative Law Section Committee on Regulatory Policy, past co-chair of the Section’s Committee on Rulemaking and Committee on E-government, and a past member of the Section’s Council. Coglianese served on committees of the National Academies of Sciences, Engineering, and Medicine (NASEM), where he studied ways to improve regulatory design and enforcement. He currently chairs a NASEM committee on emerging issues in the maritime industry and their implications for statutory authority. Coglianese has served as a consultant to the Administrative Conference of the United States (ACUS), Environment Canada, Organization for Economic Cooperation and Development (OECD), U.S. Department of Commerce, U.S. Department of Transportation (DOT), and U.S. Environmental Protection Agency (EPA). He developed and serves as the faculty director of Penn Carey Law’s executive education certificate program in regulatory analysis and decision-making.

Expertise
Administrative Law, Government Regulation, Environmental Law

Secondary Appointments
Political Science Department, School of Arts and Sciences

Education
AB 1985 College of Idaho

Courses Taught
- Administrative Law
- Environmental Law
- Policy Analysis
- Regulatory Law and Policy
- Advanced Regulatory Law and Policy
- Regulatory Analysis and Decision-Making

Representative Publications
Algorithm vs. Algorithm, 72 Duke L.J. 1281 (2022) (with Alicia Lai).
Jonathan Klick’s work focuses on identifying the causal effects of laws and regulations on individual behavior using cutting-edge econometric tools. Specific topics he addresses include the relationship between abortion access and risky sex, the health behaviors of diabetics, the effect of police on crime, addiction as rational choice, how liability exposure affects the labor market for physicians, as well as a host of other issues. His scholarship has been published in numerous peer-reviewed journals, including the Journal of Economic Perspectives, Journal of Law & Economics, Journal of Law, Economics, & Organization; and Journal of Legal Studies. He has published papers in the Stanford Law Review, Columbia Law Review, and University of Chicago Law Review.

**Expertise**

**Education**
JD 2003, PhD 2002 George Mason University
MS 1999 University of Maryland
BS 1997 Villanova University

**Courses Taught**
- Antitrust
- Torts
- Statistics for Lawyers
- Empirical Law and Economics

**Representative Publications**


Seth F. Kreimer’s first article, *Allocational Sanctions: The Problem of Negative Rights in a Positive State*, set the terms for a generation of discussion of unconstitutional conditions on public benefits. His subsequent work has shaped analysis of privacy, abortion regulation, assisted suicide, and same sex marriage. He has explored the implications of DNA testing in criminal justice, the relationship between free speech and the Internet, the complexities of the Freedom of Information Act, and the abuses of the “war on terror.” Kreimer has also represented plaintiffs in an array of constitutional litigation. He was awarded the Beacon Award for Exemplary Pro Bono Service in 2011 and Penn Carey Law’s A. Leo Levin Award for Excellence in an Introductory Course in 2006.

**Expertise**
Constitutional Law, Civil Rights Law, Constitutional Litigation

**Education**
JD 1977, BA 1974 Yale University

**Courses Taught**
- Constitutional Law
- Constitutional Litigation
- Complex Litigation
- First Amendment in the 21st Century
- Individual Rights and Health Care
- Privacy and Disclosure

**Representative Publications**


Juan Camilo Castillo

Assistant Professor of Economics, School of Arts and Sciences

Juan Camilo Castillo’s main interests are in industrial organization, microeconomic theory, and market design with a focus on online platforms and the digital economy. He has also worked on ways to accelerate widespread access to COVID-19 vaccines and analyzed the economics of violence and illegal drug markets. He has written or co-written papers published by The Review of Economics and Statistics, American Political Science Review, and Science. His latest paper, “Matching and Network Effects in Ride-Hailing” (with Shreya Mathur), was published in 2023 by AEA Papers & Proceedings.

**Expertise**
Industrial Organization, Microeconomic Theory, and Market Design

**Education**
- Ph.D. 2020 Stanford University
- MS 2013, BS Physics 2012, BS Industrial Engineering 2012 Universidad de los Andes, Colombia

Peter Decherney

Professor of English and Cinema & Media Studies, School of Arts and Sciences

Peter Decherney’s research focuses primarily on the law’s impact on media industries, having authored or edited seven books on copyright, Hollywood, and other topics. He is Director of the Penn Global Documentary Institute and Faculty Director of Penn’s Online Learning Initiative. Decherney has testified before the U.S. Copyright Office on many occasions and filed amicus briefs in several cases, including the U.S. Supreme Court case of Golan v. Holder. Decherney has been an Academy of Motion Picture Arts and Sciences Scholar, a fellow of the American Council of Learned Societies, and a U.S. State Department Arts Envoy to Myanmar. He has won multiple teaching awards and written for The New York Times, Forbes, and Inside Higher Ed. He is also an award-winning documentary and virtual reality filmmaker.

**Expertise**
Cinema and Media Studies, Copyright

**Secondary Appointments**
Annenberg School for Communication

**Education**
- PhD 2000 New York University
- BA 1993 Vassar College
Gerald R. Faulhaber
Professor Emeritus of Business Economics and Public Policy, The Wharton School

Gerald R. Faulhaber served as Chief Economist of the Federal Communications Commission (FCC) from 2000 to 2001. He is an expert in microeconomics, management, and the public policy aspects of technology and telecommunications firms. His current research focuses on wireless telecommunications, cybersecurity and the Internet of Things, public policy and the Internet, and the political economy of regulation. He also has experience in file sharing and music copyright, public safety radio, network neutrality, and the advent of cyber-civilization.

Expertise
Applied Microeconomics, Industrial Organization, Network Neutrality for the Internet, File Sharing and Copyright Fair Use, Regulation, Spectrum Policy for Wireless Telecommunications, Telecommunications

Education
PhD 1975, MA 1974 Princeton University
MS 1964 New York University
AB 1962 Haverford College

Holly Fernandez Lynch
Assistant Professor of Medical Ethics, Perelman School of Medicine

A lawyer and bioethicist by training, Holly Fernandez Lynch conducts conceptual and empirical research and scholarship in bioethics and health law with the goal of influencing institutional and governmental policy. An expert in clinical research ethics and regulation and Food and Drug Administration (FDA) pharmaceutical policy, she is founder and co-chair of the Consortium to Advance Effective Research Ethics Oversight (www.AEREO.org) and an active member of the NYU Working Group on Compassionate Use and Preapproval Access (CUPA). At the University of Pennsylvania, she co-chairs the Research Ethics and Policy Lecture Series and teaches in both the Master in Law and Master of Bioethics programs. Fernandez Lynch has worked as an attorney in private practice, as a bioethicist serving the National Institute of Health (NIH) Division of AIDS, as an analyst with President Obama’s Commission for the Study of Bioethical Issues and teaches in both the Master in Law and Master of Bioethics programs. Fernandez Lynch has worked as an attorney in private practice, as a bioethicist serving the National Institute of Health (NIH) Division of AIDS, as an analyst with President Obama’s Commission for the Study of Bioethical Issues, and as executive director of Harvard Law School’s bioethics and health law research program. She was named a Greenwall Faculty Scholar in 2019, elected a fellow of the Hastings Center in 2021, and named a National Academy of Medicine (NAM) Emerging Leader in 2022.

Expertise
Clinical Research Ethics, Ethics of Gatekeeping in Health Care, Access to Investigational Medicines Outside Clinical Trials, Food and Drug Administration (FDA) Policy

Secondary Appointments
University of Pennsylvania Carey Law School

Education
JD 2006, MBe 2006, BA 2003 University of Pennsylvania
Joseph E. Harrington has published more than 90 articles, and his research has appeared in many leading journals, including the American Economic Review, Econometrica, Journal of Political Economy, and Management Science. His research focuses on collusion and cartels with the objectives of understanding collusive practices and designing competition policy to detect and deter collusion. This work is often at the interface of theory and practice and has been presented before numerous competition authorities, including those of Chile, the European Union, Japan, South Africa, and the United States. He has authored or co-authored three books or monographs on collusion, How Do Cartels Operate? (Now Publishers 2006), The Theory of Collusion and Competition Policy (MIT 2017), and Hub-and-Spoke Cartels: Why They Form, How They Operate, and How to Prosecute Them (MIT 2021). He has also written two textbooks, Economics of Regulation and Antitrust (MIT, 5th ed. 2018) and Games, Strategies, and Decision Making (Worth Publishers, 2d ed. 2015).

Expertise
Industrial Organization, Microeconomic Theory

Education
PhD 1984 Duke University
BA 1979 University of Virginia

Kartik Hosanagar’s research focuses on the digital economy, in particular on the impact of analytics and algorithms on consumers and society, Web3, Internet media, Internet marketing, and e-commerce. Hosanagar serves as a department editor for the journal Management Science and has previously served as a senior editor for the journals Information Systems Research and MIS Quarterly. He is a 10-time recipient of MBA or undergraduate teaching excellence awards at the Wharton School, has received several best paper awards, and has been recognized as one of the world’s top 40 business professors under 40. He was the founding CEO of Jumpcut Media, a disruptive start-up at the intersection of Web3 and Hollywood. He also co-founded and developed the core intellectual property for Yodle Inc., a venture-backed firm acquired by Web.com in 2016. He has served on the advisory boards of Milo (acquired by eBay) and is involved with many other start-ups as either an investor or board member. His past consulting and executive education clients include Google, American Express, and Citi. Hosanagar was a co-host of the SiriusXM show, “The Digital Hour.”

Expertise
Internet Advertising, E-Commerce, Digital Media

Education
PhD, MPhil 2003 Carnegie Mellon University
MS 1999, BS 1998 Birla Institute of Technology and Science
Michael Kearns
National Center Professor of Management and Technology, Computer and Information Science, School of Engineering and Applied Science; Co-Founding Director, Warren Center for Network & Data Sciences

Michael Kearns's primary research interests are machine learning, probabilistic artificial intelligence, algorithmic game theory, and computational finance. Kearns integrates problems in these areas with methods from theoretical computer science and related disciplines. While most of his work is mathematical in nature, he has also participated in a variety of systems and experimental work, including spoken dialogue systems, software agents, and most recently, human-subject experiments in strategic and economic interaction. In 2019, he co-authored The Ethical Algorithm: The Science of Socially Aware Algorithm Design (Oxford 2019) (with Aaron Roth).

Expertise
Machine Learning, Algorithms and Complexity

Secondary Appointments
Economics Department, School of Arts and Sciences; Department of Statistics and Data Science and Department of Operations, Information and Decisions, The Wharton School

Education
PhD 1989 Harvard University
BS 1985 University of California, Berkeley

Emily A. Largent
Emanuel and Robert Hart Assistant Professor of Medical Ethics and Health Policy, Perelman School of Medicine

The work of Emily A. Largent explores ethical and regulatory aspects of human subject research as well as the experiences of patients diagnosed with Alzheimer’s disease and their care partners. She is Senior Fellow at the Leonard Davis Institute of Health Economics, an elected fellow of the Hastings Center, and an affiliated faculty member of the Center for Health Incentives and Behavioral Economics. In 2023, she received the Baruch A. Brody Award and Lecture in Bioethics and in 2020 was named a Greenwall Faculty Scholar. Largent’s work is supported by the National Institute on Aging (NIA) and has been published in leading bioethics and medical journals, including the Hastings Center Report, American Journal of Bioethics, New England Journal of Medicine, and JAMA, and reported in such news publications as the Washington Post and New York Times. She is a former law clerk to the Honorable Jeffrey Howard, Chief Judge of the U.S. Court of Appeals for the First Circuit.

Expertise
Ethics of Clinical Research, Translation of Clinical Research into Care, Effects of Cognitive Decline on Patients and Families

Secondary Appointments
University of Pennsylvania Carey Law School

Education
PhD, JD 2016 Harvard University
BSN 2006 University of Pennsylvania School of Nursing
BSFS 2004 Georgetown University School of Foreign Service
Ani Nenkova’s main areas of research are computational linguistics and artificial intelligence with an emphasis on developing computational methods for analysis of text quality and style, discourse, affect recognition, and summarization. Nenkova and her collaborators are recipients of the best student paper award at SIGDial in 2010 and the best paper award at EMNLP-CoNLL in 2012. The Penn team she co-led won the audiovisual emotion recognition challenge (AVEC) for word-level prediction in 2012. Nenkova regularly serves as an area chair/senior program committee member for Association for Computational Linguistics (ACL), North American Chapter of the Association for Computational Linguistics (NAACL), and American Association of Applied Linguistics (AAAL). She was a program co-chair for SIGDial in 2014 and NAACL-HLT in 2016. She is a co-editor-in-chief of Transactions of the Association for Computational Linguistics (TACL) and formerly an editorial board member of Computational Linguistics (2009-2011) and associate editor for IEEE/ACM Transactions on Audio, Speech and Language Processing (2015-2018). Nenkova is currently on leave and serving as Principal Scientist at Adobe Research.

Expertise
Artificial Intelligence, Computational Linguistics, Computational Methods

Education
PhD 2006 Columbia University
MA Sofia University

Aviv Nevo
George A. Weiss and Lydia Bravo Weiss University Professor; Professor of Economics, School of Arts and Sciences; Professor of Marketing, The Wharton School

Aviv Nevo draws from his experience across academic, government, and corporate sectors to address pressing real-world issues, opening pathways for a broader understanding of national and global economies. His past areas of research include health economics, health care, telecommunications, and real estate brokerages, as well as the demand for packaged goods and the implications for price competition, mergers, and marketing. Nevo served as Chief Economist of the Antitrust Division of the U.S. Department of Justice (DOJ), advising attorneys on merger, civil, and criminal investigations in addition to leading the Division’s Economic Analysis Group. Nevo is currently on leave and serving as Director of the Bureau of Economics of the Federal Trade Commission (FTC).

Expertise
Industrial Organization, Econometrics, Marketing, Antitrust

Education
PhD 1997, AM 1994 Harvard University
BSc 1991 Tel Aviv University
Rakesh V. Vohra
George A. Weiss and Lydia Bravo Weiss University Professor; Department of Economics, School of Arts and Sciences; Department of Electrical and Systems Engineering, School of Engineering and Applied Science; Co-Founding Director, Warren Center for Network & Data Sciences

Rakesh V. Vohra is an expert on mechanism design whose interdisciplinary work on game theory is at the intersection of engineering and economics. His research on the allocation of scarce resources has been important in the advancement of game, pricing, and auction theory. Vohra holds primary appointments in the Department of Economics and the Department of Electrical and Systems Engineering along with a secondary appointment in the Department of Computer and Information Science. He came to the University of Pennsylvania through the Penn Integrates Knowledge program, a university-wide initiative to integrate research across different educational disciplines. Before joining Penn, Vohra was the John L. and Helen Kellogg Professor of Managerial Economics & Decision Sciences at Northwestern University. He is the author of Prices and Quantities (Cambridge 2020) and Principles of Pricing: An Analytical Approach (Cambridge 2012).

Expertise
Game Theory, Mechanism Design, Operations Research

Education
PhD 1985 University of Maryland
MSc 1981 London School of Economics
BSc 1980 University College London

Joseph Turow
Robert Lewis Shayon Professor of Media Systems and Industries, Annenberg School for Communication

The work of Joseph Turow lies at the intersection of marketing, digital media, and society. His writings explore the power dynamics that shape cultural materials through which people learn about the world. Turow is an elected fellow of the International Communication Association and received a Distinguished Scholar Award from the National Communication Association. In 2012, the TRUSTe Internet privacy-management organization designated him a “privacy pioneer” for his research and writing on marketing and digital privacy. He has authored more than a dozen books and written more than 160 articles on mass media industries. His most recently published books are Media Today: Mass Communication in a Converging World, (Routledge, 8th ed. 2022) and The Voice Catchers: How Marketers Listen In to Exploit Your Feelings (Yale 2021).

Expertise
Mass Media Policy, Social Impact of Digital Marketing on Society and Media, Sociological Theory

Education
PhD 1976, MA 1973, BA 1971 University of Pennsylvania
Pinar Yildirim studies media, technology, and information economics. She focuses on applied theory and applied economics of online platforms, effects of technology and AI, social and economic networks, media bias, and the political economy. Her research has appeared in top economics and business marketing journals, including the *American Economic Review*, *Marketing Science*, *Journal of Economics & Management Strategy*, *Quantitative Marketing & Economics*, *Journal of Marketing Research*, *Management Science*, and *Journal of Marketing*. Yildirim is on the editorial boards of *Marketing Science* and *Journal of Marketing Research*. She is also an area editor for the *International Journal of Research in Marketing*. Yildirim was named an MSI Scholar in 2023 and received a Marketing Science Service Award and a Distinguished Service Award from *Management Science* in 2022. Other awards include the Erin Anderson Award for Emerging Mentor and Scholar, the Seenu Srinivasan Young Scholar Award in Quantitative Methodology, and a Teaching Excellence Award from the Wharton School. She teaches in Wharton's executive education, MBA, and undergraduate programs; serves on a number of conference organizing committees; and is a frequent contributor to Knowledge@Wharton and XM Wharton Business Radio.

**Expertise**
- Internet Policy, Telecommunications Regulation, Law and Ethics of Big Data, Gamification, Blockchain

**Education**
- PhD 2012, MS 2006 University of Pittsburgh
- BS 2004 Middle East Technical University, Turkey

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Kevin Werbach's research focuses on the legal, business, and policy implications of emerging technologies. His interests include artificial intelligence and business analytics, blockchain and distributed ledger technologies, gamification (applying digital game design techniques to business), and telecommunications regulation. He co-led the review of the Federal Communications Commission (FCC) for the Obama transition team, served as counsel for New Technology Policy at the FCC during the Clinton Administration, and created the Supernova executive technology conference. Over 500,000 students worldwide have registered for his pioneering Coursera massively open online course (MOOC). Werbach was the editor of *After the Digital Tornado: Networks, Algorithms, Humanity* (Cambridge 2020). In 2018, he published *The Blockchain and the New Architecture of Trust* (MIT 2018).

**Expertise**
- Internet Policy, Telecommunications Regulation, Law and Ethics of Big Data, Gamification, Blockchain

**Education**
- JD 1994 Harvard University
- BA 1991 University of California, Berkeley

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**Kevin Werbach**
Liem Sioe Liong/First Pacific Company Professor and Professor of Legal Studies and Business Ethics, The Wharton School

**Pinar Yildirim**
Assistant Professor of Marketing, The Wharton School
Osagie O. Imasogie is the chair of Quoin Capital, an investment bank based in Philadelphia and Los Angeles; co-founder and senior managing partner of PIPV Capital, an IP-based private equity firm; and chair of the board of directors of Zelira Therapeutics. He has over 35 years of experience in the legal, finance, business management, health care, and pharmaceutical industries. Before co-founding PIPV Capital, Imasogie conceptualized and established GlaxoSmithKline Ventures and was its founding vice president. He has also held senior commercial and R&D positions for other pharmaceutical companies and has been the founder-chair of several biotech and pharmaceutical companies. At the University of Pennsylvania, Imasogie is a member of the Board of Trustees and a member of its Executive Committee and Nominating Committee. He chairs the Advisory Board of the University of Pennsylvania Carey Law School, where he teaches a course entitled Intellectual Property and National Economy Value Creation.

Education
LLM 1985 University of Pennsylvania
LLM 1984 London School of Economics and Political Science
BL 1981 Nigeria Law School
LLB 1980 University of Ife, Nigeria

Thomas Fetzer
Chair of Public Law, Regulatory Law and Tax Law, University of Mannheim Law School, Germany

Since 2012, Thomas Fetzer has served as Chair of Public Law, Regulatory Law and Tax Law at the University of Mannheim Law School in Germany. He is an academic director of the Mannheim Center for Competition and Innovation (MaCCI) as well as a research associate at the Leibniz Center for European Economic Research (ZEW). From 2014 to 2017, he served as Vice Dean and then Dean of the School of Law and Economics. From 2020 to 2021, he was a part-time judge at the Higher Administrative Court of the State of Baden-Württemberg. In 2021, he was appointed Vice-President for Strategic Planning, Internationalization and Equal Opportunity. His research focuses on the law of sector-specific regulation of network industries, in particular telecommunications regulation, competition, and regulatory issues in the digital economy, and European tax law. He has been coordinator of the European University Alliance ENGAGE.EU since 2021.

Education
Habilitation 2009, PhD 2000 University of Mannheim
LLM 2003 Vanderbilt University

Osagie O. Imasogie
Senior Managing Partner, PIPV Capital

Education
LLM 1985 University of Pennsylvania
LLM 1984 London School of Economics and Political Science
BL 1981 Nigeria Law School
LLB 1980 University of Ife, Nigeria
In 2006, the Honorable Kent A. Jordan was appointed by President George W. Bush to serve as U.S. Circuit Judge for the Third Circuit. Before that appointment, Judge Jordan served as U.S. District Judge for the District of Delaware from 2002 to 2006. He is a former law clerk to the Honorable James L. Latchum, U.S. District Court for the District of Delaware, and Assistant U.S. Attorney for the District of Delaware, where he served as Civil Chief in 1991 and 1992. Before taking the bench, Judge Jordan served as an officer and member of the boards of directors of privately held businesses and was a partner in a Wilmington, Delaware, law firm, with a practice focused on intellectual property, corporate law, and commercial litigation.

Education
JD 1984 Georgetown University
BA 1981 Brigham Young University

Matthew A. Pearson is a patent litigator in the areas of pharmaceuticals, chemistry, and biology, with a focus on biologics and cancer treatments. Pearson holds a PhD in biochemistry and worked as a scientist at the National Institutes of Health (NIH). In his scientific work, he focused on the mechanism and three-dimensional molecular structures of proteins using x-ray crystallography.

Education
JD 2005 University of Pennsylvania
PhD 1999 Cornell University
BS 1993 Michigan State University

The Honorable Kent A. Jordan
U.S. Court of Appeals for the Third Circuit

Matthew A. Pearson
Partner, Akin Gump Strauss Hauer & Feld LLP
Trevor Cloak advises Comcast on intellectual property and technology-related matters, including complex technology transactions. Before working at Comcast, he was a member at the law firm Cozen O’Connor, where he represented clients on all aspects of intellectual property due diligence and in drafting and negotiating technology, software, software-as-a-service, and other intellectual property agreements. At Penn Carey Law, Cloak teaches an introductory course on technology law and ethics.

**Education**
- JD 2008 Vanderbilt University
- BS 2005 Middlebury College

Lauren B. Steinfeld serves as Chief Privacy Officer and Assistant Vice President for Audit, Compliance and Privacy at Penn Medicine. Steinfeld leads and oversees the HIPAA compliance program and other privacy initiatives for Penn’s six hospitals, more than 250 physician practices, and the School of Medicine research program. She teaches privacy law at the University of Pennsylvania Carey Law School with Prof. Christopher Yoo and is a Coursera instructor in the Regulatory Compliance Specialization, which has over 20,000 learners. She previously served as Chief Privacy Officer for the University of Pennsylvania. Before joining Penn, Steinfeld worked at the Office of Management and Budget (OMB) as the Associate Chief Counselor for Privacy. In this role during the Clinton Administration, she worked closely on drafting the HIPAA privacy rules as well as on governmental data sharing, financial privacy, and ECPA privacy matters. She also served as Attorney Advisor to Federal Trade Commissioner (FTC) Mozelle Thompson.

**Education**
- JD 1992 New York University
- BA 1989 University of Pennsylvania
Gerald Adams is a global satellite policy associate at SpaceX where he advises on domestic and international regulatory matters and spectrum policy. His scholarship focuses on emerging property issues at the intersection of law and technology. At Penn Carey Law, Adams was a Levy Scholar and received the Herbert F. Schwartz Award for distinguished achievement in law and technology. He was Editor-in-Chief of the *Journal of Law & Innovation* and served as a research assistant to Prof. Christopher Yoo of Penn Carey Law and Prof. Kevin Werbach of the Wharton School. While at CTIC, he focused on congestion pricing in spectrum markets and policy recommendations for licensing decisions. At Wharton, he focused on state and federal blockchain regulation. Additionally, he was a research fellow for the Center for Quantum Networks (CQN), where he examined the competition dynamics of emerging networking architectures based on quantum communications. Adams worked as a summer associate at Hogan Lovells in Washington, D.C., where he counseled on Federal Communications Commission (FCC) proceedings, domestic and international spectrum conflicts, and entity designation and trade restrictions surrounding telecommunications equipment and infrastructure. Before his summer associateship, he interned at the FCC in the Office of Commissioner Geoffrey Starks. Before attending law school, Adams was a patent engineer at Holland & Hart LLP and a research fellow at the Institute of Pure and Applied Mathematics (IPAM) focusing on matter systems for quantum computing.

**Education**  
JD 2022 University of Pennsylvania  
BS 2016 University of Utah

Leon Gwaka’s research focuses on digital infrastructure transformation in resource constrained communities and its impact on achieving the Sustainable Development Goals. He is currently involved with CTIC’s 1 World Connected project under the supervision of Prof. Christopher Yoo. With funding from USAID and ResilientAfrica Network, Gwaka led the implementation of the MOSMAC project in Beitbridge, Zimbabwe, and conducted a critical impact assessment of this intervention for his PhD. The project was selected as one of the top 10 BCFN Young Earth Solutions 2017. Gwaka was named a 2023 fellow by the Internet Law & Policy Foundry. From 2013 to 2015, he trained as a professional accountant in South Africa and taught taxation.

**Education**  
PhD 2019 University of the Western Cape  
M Tech 2015 Cape Peninsula University of Technology
Sindhura K S
Research Fellow

Sindhura K S works on CTIC’s 1 World Connected project under the supervision of Prof. Christopher Yoo. She analyzes the socioeconomic benefits of Internet connectivity and access to smartphone devices, addresses barriers, and explores methods to increase smartphone access in communities lacking digital infrastructure and resources. She is a former asset management analyst at Goldman Sachs, where she evaluated strategies to enhance the environment, social, and governance alignment of investments and administered a suite of mutual funds for institutional investors. Before that, she was a software engineer in the asset management technology unit of Fidelity Investments.

Education
MBA 2021 Indian Institute of Management Bangalore
BEng 2017 Ramaiah Institute of Technology, Bangalore

Giovanna Massarotto
Academic Fellow

The scholarship of Giovanna Massarotto focuses on the intersection of law, economics, and computer science by means of antitrust law and economic regulation in the field of technology. She is an active scholar and author of Antitrust Settlements: How a Simple Agreement Can Drive the Economy (Wolters Kluwer 2019), co-author of Digital Assets: Pricing, Allocation and Regulation (Cambridge forthcoming), and author of papers in prestigious journals such as Journal of Competition Law & Economics and the University of Pennsylvania Journal of Business Law. Massarotto has been invited to speak at the OECD Blockchain Policy Forum, UK Competition and Markets Authority (CMA), and multiple universities such as the University of Oxford, Stanford Center for Legal Informatics, Codex, University of Zurich, Carnegie Mellon University, and the Global Antitrust Institute (GAI). Before arriving at Penn, she was a visiting research fellow at Fordham University in New York and then worked in Washington, D.C., for an economic consulting firm specializing in intellectual property law, economic regulation, and antitrust in the telecommunications and high-tech industries. She was an academic visitor at the University of Oxford and taught for Bocconi University and the University of Iowa Tippie College of Business as an adjunct professor. She is an affiliate of the University College London Centre for Blockchain Technologies (UCL CBT), where she ran and taught a program in legal issues in blockchain technologies. She also taught legal issues in cryptocurrencies and other cryptoassets for Carnegie Mellon University.

Education
PhD 2014 University of Bocconi
MS 2008, BA 2006 Carlo Cattaneo University-LIUC
Alex Mueller

Research Fellow

The research of Alex Mueller is focused on issues in the field of global Internet governance and standards development. His current work examines the growing politicization of standard-setting as stakeholders from countries like China continue to vie for greater influence over shaping the Internet’s technical architecture. In addition to conducting his research, Mueller teaches Technology Law & Ethics, a new interdisciplinary course that is tailored specifically to meet Penn undergraduate engineering students’ ethics requirement. Before attending law school, he was an advisory associate in cybersecurity and privacy for a leading global professional services firm, where he helped clients strengthen their data protection programs and security postures.

Education
JD 2021 University of Pennsylvania
BS 2016 Marquette University
Caroline Olson oversees the daily operations of CTIC and has played a key role in its growth and success. In her leadership position, she has contributed to the center’s program expansion through student and practitioner-oriented events, social media strategy, and the growth and development of staff through innovative approaches. Olson brings a wealth of experience in law firm administration, organizational development, talent management, and public service to her position. She served as the Director of Attorney Recruitment at Dechert LLP for seven years, where she oversaw lateral and law school hiring as well as the attorney evaluation and compensation program. Before joining Dechert, Olson spent 15 years at Morgan, Lewis & Bockius LLP, where she ran global attorney integration, evaluation, and compensation, and lateral and law student recruitment, in addition to working in human resources. Before joining Penn, Philadelphia Mayor Michael Nutter appointed her Deputy Managing Director to lead strategic talent management and organizational development for the City of Philadelphia.

Education
BA University of Missouri, Columbia

Eileen Kenney
Director of Communications

As CTIC’s communications director, Eileen Kenney plans and implements CTIC’s event promotion, social media and website communications, collateral marketing material and annual report, and media outreach. She has more than 20 years of experience in marketing and communications at two major law firms, Dechert LLP and Ballard Spahr LLP. She left law firm marketing for the nonprofit education sector, first as the development and communications director for a nonprofit adult literacy agency in Philadelphia and then as the director of engagement at Penn’s Center for Ethics and the Rule of Law (CERL). Her other work experience includes stints as a writer, editor, video producer, and program planner for local, state, and national legal education providers. A lawyer, she practiced civil litigation at a Philadelphia firm early in her career.

Education
JD 1985 Temple University
BA 1981 University of Pittsburgh
Second Economics of Digital Services Research Symposium

September 9-10, 2022

Thanks to the support of the John S. and James L. Knight Foundation, CTIC and Penn’s Warren Center for Network & Data Sciences continued their program of awarding grants to scholars to conduct new research to improve our understanding of the economics of digital services. The second annual symposium brought together the recipients of grants issued during the fall of 2021 plus other experts to discuss findings and antitrust policy and regulation implications.

Opening Remarks

Rakesh Vohra
George A. Weiss and Lydia Bravo Weiss University Professor, University of Pennsylvania

Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Keynote Address

Tommaso Valletti
Professor of Economics, Imperial College London; former Chief Competition Economist of the European Commission (Directorate General for Competition)
Examining Consumer Responses to Advertising on Misinformation Websites
Ananya Sen
Assistant Professor, Heinz College of Information Systems and Public Policy, Carnegie Mellon University

The Value of Data Records
Simone Galperti
Associate Professor, University of California San Diego

All the Headlines That Are Fit to Change
Tin Cheuk Leung
Associate Professor, Economics Department, Wake Forest University

Information Frictions and Heterogeneity in Valuations of Personal Data
Avinash Collis
Assistant Professor, McCombs School of Business, University of Texas at Austin
Algorithms in the Wild: Experimental Evidence from an Online Marketplace
Maximilian Schaefer
Postdoctoral Associate, Department of Economics, Yale University

COPPAcalyse? The YouTube Settlement’s Impact on Kids Content Creation
Garrett Johnson
Assistant Professor, Questrom School of Business, Boston University

The Effect of Ad-Blocking and Anti-Tracking on Consumer Behavior
Cristobal Cheyre
Assistant Professor, Cornell University

Closing Remarks
Rakesh Vohra
George A. Weiss and Lydia Bravo Weiss University Professor, University of Pennsylvania

Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania
Fireside Chat: Life of an Antitrust Litigator in Male-Dominant Spaces—Antitrust Regulation and Tech Law

October 19, 2022

A Big Law partner and former trial attorney at the U.S. Department of Justice (DOJ) Antitrust Division spoke on antitrust enforcement and technology, DOJ careers, and white-collar work. This event was co-sponsored by CTIC; Penn Carey Law Antitrust Association (PCLAA); Internet, Tech & Society Collaborative (ITSC); and Penn Carey Law Women’s Association (PCLWA).

Anna Pletcher
Partner, O’Melveny & Meyers

Moderator
Jennifer Rothman
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School
Competition Law at a Crossroads: A Conversation with Frédéric Jenny

March 28, 2023

Frédéric Jenny, Chair of the Competition Law and Policy Committee of the Organisation for Economic Co-Operation and Development (OECD), provided keynote remarks at this private session held in Washington, D.C., followed by a discussion among competition law enforcement officials from various international commissions and authorities. The event was organized by CTIC and Competition Policy International (CPI).

Frédéric Jenny
Chair of the OECD Competition Committee, Professor of Economics, ESSEC Business School, Paris; Judge, Supreme Court of France (Cour de Cassation)

Moderator
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania
Worldwide Trends in Competition Law and Policy
April 7, 2023

Penn Carey Law Antitrust Association (PCLAA) Second Annual Symposium

Leading U.S. and international scholars and practitioners in the public and private sectors explored the latest competition issues around the globe. Panelists discussed how U.S. antitrust policy shapes international debates, whether antitrust reforms are appropriate for remedying marketing concerns stemming from the proliferation of Big Tech platforms, and how regulators are dealing with antitrust concerns in labor markets. This event was co-sponsored by CTIC, Cleary Gottlieb Steen & Hamilton LLP, Freshfields Bruckhaus Deringer LLP, Penn’s Graduate and Professional Student Assembly (GAPSA), Hotta Advocacia, Latham & Watkins LLP, McDermott Will & Emery, Pogust Goodhead, and Wilson Sonsini Goodrich & Rosati.

Opening Remarks
Noelle Choi L’24
Co-President, (PCLAA)

Keynote Address: On American Antitrust Foundations
Herbert Hovenkamp
James G. Dinan University Professor, University of Pennsylvania

The Global Regulatory Landscape in Antitrust
Jennifer Driscoll L’00
Counsel, Robinson & Cole LLP

Krisztian Katona
Vice President of Global Competition and Regulatory Policy, Computer & Communications Industry Association (CCIA)

Donald Klawiter L’75
Partner, Sterlington PLLC

Spencer Waller
Justice John Paul Stevens Chair in Competition Law and Professor and Director of the Institute for Consumer Antitrust Studies, Loyola University Chicago School of Law

Moderator
Jonathan Klick
Charles A. Heimbold, Jr. Professor of Law, University of Pennsylvania Carey Law School

Noelle Choi L'24
Herbert Hovenkamp
The Antitrust Backlash Against Big Tech

Beau Buffier
Partner, Wilson Sonsini Goodrich & Rosati

Victor Oliveira Fernandes
Competition Law Professor, Instituto Brasileiro de Ensino, Desenvolvimento e Pesquisa (IDP); Commissioner, Tribunal of the Brazilian Competition Authority

Ioannis Lianos
Professor of Global Competition Law and Public Policy, Faculty of Laws, University College London (on leave); President, Hellenic Competition Commission

Karina Flores Martínez
Deputy Director General, Mexican Competition Commission (COFECE)

Moderator
Giovanna Massarotto
Academic Fellow, CTIC, University of Pennsylvania Carey Law School
New Antitrust Concerns in Labor Markets

Eric Dunn
Counsel to the Assistant Attorney General, Antitrust Division, U.S. Department of Justice (DOJ)

Calixto Salomão Filho
Full Professor of Corporate Law and Founding Director of the Law and Poverty Research Group, University of São Paulo Law School

Steven Salop
Professor Emeritus, Georgetown University Law Center

Cristina Volpin
Competition Expert, Organisation for Economic Co-Operation and Development (OECD)

Moderator
Hiba Hafiz
Assistant Professor, Boston College Law School

Closing Remarks
Gustavo Kastrup LLM ’23
Vice-President, PCLAA
Economics of Digital Services Research Initiative (EODS)

In November 2019, the John S. and James L. Knight Foundation awarded CTIC and Penn’s Warren Center for Network & Data Services a $350,000 three-year grant to fund new independent research into the role data play in digital platforms’ business models and the resulting impact on antitrust policy and law. The initiative’s co-leaders are Prof. Christopher Yoo and Rakesh Vohra, the George A. Weiss and Lydia Bravo Weiss University Professor of Economics and Electrical and Systems Engineering and the Warren Center’s founding co-director.

The first phase of the initiative culminated in September 2021 at the Inaugural Economics of Digital Services Research Symposium, where researchers presented their findings to initiative leaders, fellow researchers, and antitrust experts, along with full papers and articles posted on the newly created EODS blog (www.pennEODS.org). Research areas included digital advertising, blockchains and smart contracts, ad-blocking and anti-tracking, search engines, cloud computing, value of social media, data neutrality, Big Data and employment, and the value of technology releases in the Apple iOS app ecosystem.

The second phase concluded in September 2022 with the Second Research Symposium on the Economics of Digital Services held at Penn Carey Law followed by the release of full papers and blog articles. Research areas covered privacy and the value of data records, revisions of headlines on media companies’ digital platforms, off-the-shelf repricing algorithms and their effect on collusion, mitigation of the financial incentive to misinform via information interventions, and the YouTube settlement’s impact on “made-for-kids” content creation.

The initiative’s third and final phase is underway. Five grant proposals have been selected for presentation at the third EODS symposium in September 2023.
Intellectual Property
Inaugural Trademark and Unfair Competition Scholarship Roundtable

October 7-8, 2022

The forum was established for the discussion of contemporary trademark and right of publicity scholarship covering a range of methodologies, topics, and perspectives. Authors of eight papers, each assigned a commentator, examined current topics ranging from life story rights to reverse confusion. The event was organized by CTIC, Harvard Law School, and the Engelberg Center on Innovation Law & Policy at New York University School of Law.

Opening Remarks
Jennifer Rothman
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School

The Missing Element in Trademark Infringement
Maggie Wittlin
Associate Professor of Law, Fordham University School of Law

Sepeher Shahshahani
Associate Professor of Law, Fordham University School of Law

Commentator
Rebecca Tushnet
Frank Stanton Professor of the First Amendment, Harvard Law School

Reverse Confusion and the Justification of Trademark Protection
Jeremy Sheff
Professor of Law, St. John’s University School of Law

Commentator
Barton Beebe
John M. Desmarais Professor of Intellectual Property Law, New York University School of Law
Screening Meaning
Christopher Buccafusco
Edward & Ellen Schwarzman Professor of Law, Duke University School of Law

Jonathan Masur
John P. Wilson Professor of Law, University of Chicago Law School

Commentator
Stacey Dogan
Professor of Law, Boston University School of Law

Trademark’s Tarnishmyths
Jake Linford
Loula Fuller and Dan Myers Professor, Florida State University College of Law

Justin Sevier
Charles W. Ehrhardt Professor of Litigation, Florida State University College of Law

Allyson Willis
Trademark Examining Attorney, United States Patent and Trademark Office (USPTO)

Commentator
Christopher Sprigman
Murray and Kathleen Bring Professor of Law, New York University School of Law
Based on a True Story: Life Story Rights, Modularity and Propertization of the Self

David Fagundes
Baker Botts LLP Professor of Law, University of Houston Law Center

Commentator
William McGeveran
Gray, Plant, Mooty, Mooty & Bennett Professor of Law, University of Minnesota Law School

Overlapping Copyright and Trademark Protection in the United States: More Protection and More Fair Use?

Irene Calboli
Regents Professor of Law, Texas A&M University School of Law

Jane Ginsburg
Morton L. Janklow Professor of Literary and Artistic Property Law, Columbia Law School

Commentator
Graeme Dinwoodie
Distinguished Professor of Law, Chicago-Kent College of Law

Informational Capacity, Regulation, and Certification Marks

David Simon
Harvard Law School

Commentator
Jeanne Fromer
Walter J. Derenberg Professor of Intellectual Property Law, New York University School of Law

The Exclusive Right to Customize?

Mark Lemley
William H. Neukom Professor of Law, Stanford Law School

Sari Mazzurco
PhD in Law Candidate, Yale Law School

Commentator
Jessica Silbey
Professor of Law, Boston University School of Law

Closing Remarks

Barton Beebe
John M. Desmarais Professor of Intellectual Property Law, New York University School of Law
Creative Control: IP in a World of Democratized Content Creation

October 14, 2022

Presented by Penn Intellectual Property Group (PIPG) and co-sponsored by CTIC

With the rise of new media platforms, creators have more ways to produce and distribute content on a worldwide scale. The first panel focused on how artists, actors, and other individual creators wrangle with controlling and managing their digital persona; the second panel examined how content licensing and distribution have changed over the past decade in response to increasing independent creation.

Value of Online Identity
Karl Fowlkes
Managing Partner, The Fowlkes Firm

Craig Kurland
Former Head of Business Affairs, Quibi

Moderator
Anita Allen
Henry R. Silverman Professor of Law and Professor of Philosophy, University of Pennsylvania
Licensing in an Era of Small Creators

Anne Kennedy McGuire  
Partner, Loeb & Loeb LLP

Gabrielle Sellei  
Founder, Sellei Law, LLC

Alan Lewine  
CEO and General Counsel, Owlsong Productions Inc.

Moderator

Rebecca Clayton  
Adjunct Professor of Law, University of Pennsylvania Carey Law School
Global Patent Law Conference

October 29, 2022

Distinguished judges and eminent scholars and practitioners from the United States and Japan met to discuss comparative law issues concerning enablement requirements and patent disputes. CTIC and Waseda University Research Center for the Legal Systems of Intellectual Property organized this event.

Opening Remarks

Tatsuhisa Tamura
Professor, Waseda Law School

Ryu Takabayashi
Professor, Waseda Law School; Director, Research Center for the Legal Systems of Intellectual Property (RCLIP)

Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Written Description and Enablement in U.S. and Japanese Patent Law

John Thomas
Professor of Law, Georgetown University Law Center

The Honorable Kent Jordan
U.S. Court of Appeals for the Third Circuit

The Honorable Ichiro Otaka
Chief Judge, Intellectual Property High Court

R. Polk Wagner
Michael A. Fitts Professor of Law, University of Pennsylvania Carey Law School

Ryoko Iseki
Professor, Department of Law, Doshisha University

Naoki Yoshida
Partner, Finnegan, Henderson, Farabow, Garrett & Dunner, LLP

Moderator

Christoph Rademacher
Professor, Graduate School of Law, Waseda University
Cross Border Patent Disputes

The Honorable Makiko Takabe
Of Counsel, Nishimura & Asahi; former Chief Judge, Intellectual Property High Court

Cynthia Dahl
Practice Professor of Law, University of Pennsylvania Carey Law School

Guy Perry
Patent Counsel, Qualcomm

Guobin Cui
Professor and Director, Center for Intellectual Property, Tsinghua University School of Law

The Honorable Lord Justice Colin Birss
Court of Appeal of England and Wales and Deputy Head of Civil Justice

Moderator
Masabumi Suzuki
Professor, Nagoya University Graduate School of Law

Closing Remarks

The Honorable Misao Shimizu
Partner, Yanagida & Partners; former Chief Judge, Intellectual Property High Court
Federal Circuit Oral Arguments

November 2, 2022

Penn Carey Law hosted oral arguments before the U.S. Court of Appeals for the Federal Circuit in patent and civil appellate cases from the U.S. Patent and Trademark Office (USPTO), Court of Federal Claims, and Civilian Board of Contract Appeals. The event provided students a unique opportunity to observe appellate proceedings and oral advocacy.

On the Bench

The Honorable Kimberly Moore
Chief Circuit Judge, U.S. Court of Appeals for the Federal Circuit

The Honorable Alan David Lourie
Circuit Judge, U.S. Court of Appeals for the Federal Circuit

The Honorable Sharon Prost
Circuit Judge, U.S. Court of Appeals for the Federal Circuit

Moderator

R. Polk Wagner
Michael A. Fitts Professor of Law, University of Pennsylvania Carey Law School
Eighth Annual Copyright Scholarship Roundtable

May 8-9, 2023

The roundtable brought together the country’s leading copyright scholars to discuss recently written academic papers covering various issues and perspectives. Eight papers were chosen for inclusion. CTIC and Columbia Law School organized the event.

What Is the Relationship Between Language and Thought?: Linguistic Relativity and Its Implications for Section 230 and Copyright
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Commentator
Jeanne Fromer
Walter J. Derenberg Professor of Intellectual Property Law, New York University School of Law

Copyright’s Capacity Gap
Eva Subotnik
Professor of Law, St. John’s University School of Law

Commentator
Jennifer Rothman
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School

Centering Creative Labor: Towards a Progressive Copyright
Xiyin Tang
Assistant Professor of Law, UCLA School of Law

Commentator
Mala Chatterjee
Associate Professor of Law, Columbia Law School
Historical Kinship & Categorical Mischief: The Use and Misuse of Doctrinal Borrowing in Intellectual Property

Mark Bartholomew
Professor of Law, University at Buffalo School of Law

Commentator
R. Polk Wagner
Michael A. Fitts Professor of Law, University of Pennsylvania Carey Law School

Antitrust Regulation of Copyright Markets

Jacob Noti-Victor
Associate Professor of Law, Benjamin N. Cardozo School of Law

Xiyin Tang
Assistant Professor of Law, UCLA School of Law

Commentator
Herbert Hovenkamp
James G. Dinan University Professor, University of Pennsylvania
A Matter of Facts: The Evolution of the Copyright Fact-Exclusion and its Implications for Disinformation and Democracy
Jessica Silbey
Professor of Law, Boston University School of Law

Commentator
Barton Beebe
John M. Desmarais Professor of Intellectual Property Law, New York University School of Law

Learned Hand’s Copyright Law
Shyamkrishna Balganesh
Sol Goldman Professor of Law, Columbia Law School

Commentator
Joseph Fishman
Professor of Law, Vanderbilt Law School

On Copyright Utilitarianism
David Simon
Lecturer on Law, Harvard Law School

Patrick Goold
Reader in Law, City Law School, City, University of London

Commentator
Rebecca Tushnet
Frank Stanton Professor of the First Amendment, Harvard Law School
Internet & Privacy Law
Book Talk with William Novak: *New Democracy: The Creation of the Modern American State*

December 6, 2022

*A Penn Program on Regulation (PPR) event co-sponsored by CTIC*

*New Democracy* traces how American governance was transformed in the decades after the Civil War, giving rise even before the New Deal to an active federal government that used legislation, regulation, and public administration to advance general economic and social welfare. Several University of Pennsylvania professors offered commentary.

**William Novak**  
Charles F. and Edith J. Clyne Professor of Law, University of Michigan Law School

**Commentators**  
Karen Tani L’07 PhD’11  
Seaman Family University Professor, University of Pennsylvania

Christopher Yoo  
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

**Moderator**  
Cary Coglianese  
Edward B. Shils Professor of Law and Professor of Political Science and Director, Penn Program on Regulation (PPR), University of Pennsylvania
Future of Cybersecurity: Regulatory Impacts on Conglomerates, Silent Warfare, and Global Cooperation Efforts

February 11, 2023

Spring Symposium of the University of Pennsylvania Asian Pacific American Law Student Association (APALSA) and Asian Law Review (ALR) co-sponsored by CTIC

Privacy protection along with national security interest links governments and businesses in a new era of compliance, enforcement, and cooperation. The symposium examined the impacts of cybersecurity regulations and compliance from global corporations, emerging rules of cyber-warfare, and efforts by public and private actors to fortify cybersecurity around the globe.

**Opening Remarks**

Theodore Ruger  
Dean, University of Pennsylvania Carey Law School

**Regulation of Cybersecurity: Governmental Purpose, Its Effects and Compliance from Global Businesses**

Chia-Chi Li  
Vice President Legal, Netflix

Andy Purdy  
Chief Security Officer, Huawei U.S.

Jennifer Arbittier Williams C’92 L’95  
U.S. Attorney, Eastern District of Pennsylvania

Evan Wolff  
Partner, Crowell & Moring LLP

**Moderator**

Christopher Yoo  
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania
New Rules of Global Cyber-Warfare and Cybersecurity in the Geopolitical Arena

Gary Corn  
Director, Technology, Law & Security Program and Adjunct Professor, Washington College of Law, American University

David Dorey L'12  
Senior Litigation Counsel, Fairness Center

Claire Finkelstein  
Algeron Biddle Professor of Law and Professor of Philosophy, University of Pennsylvania Carey Law School; Faculty Director, Center for Ethics and the Rule of Law (CERL), Annenberg Public Policy Center (APPC)

George Lucas  
Distinguished Chair in Ethics Emeritus, U.S. Naval Academy; Professor Emeritus of Ethics and Public Policy, Graduate School of Public Policy, Naval Postgraduate School

David Simpson  
Rear Admiral (Ret.); Professor of Practice, Pamplin Business College, Virginia Tech; CEO, Pelorus LLC

Moderator
Jacques deLisle  
Stephen A. Cozen Professor of Law & Professor of Political Science and Director, Center for the Study of Contemporary China, University of Pennsylvania

Concerted Efforts to Fortify Cybersecurity Worldwide

Adrian Ciuffetelli  
Manager, Cybersecurity, Boston Consulting Group

John Ghose L'05  
Senior Privacy Counsel, VeraSafe

Andy Purdy  
Chief Security Officer, Huawei U.S.

Christopher Yoo  
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Moderator
Bahaa Kutub  
Senior Consultant, Cybersecurity, Boston Consulting Group
Ninth Computer Science and the Law Roundtable

May 23-24, 2023

The roundtable brought together leading scholars and scientists pursuing research at the intersection of law and computer science and engineering and continues to advance interdisciplinary work, provide an institutional home for future scholars, and encourage further collaboration.

Welcome
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Tutorial on Emerging Issues in Large Language Models (LLMs) and Intellectual Property
R. Polk Wagner
Michael A. Fitts Professor of Law, University of Pennsylvania Carey Law School

Privacy: Combining Computer Science Techniques with Legal Analysis
Scott Jordan
Professor, Samueli School of Engineering, University of California, Irvine

Understanding Differential Privacy
David Clark
Senior Research Scientist, Massachusetts Institute of Technology

The Impact of Apple Privacy Labels on Demand
Rahul Telang
Professor of Information Systems and Management, Heinz College and Tepper School of Business, Carnegie Mellon University
Preventing Intimate Image Abuse via Privacy-Preserving Credentials

Steven Bellovin
Percy K. and Vida L. W. Hudson Professor of Computer Science, Fu Foundation School of Engineering and Applied Science, Columbia University

Moderator
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Content Moderation on End-to-End Encrypted Systems: A Legal Analysis

James Grimmelmann
Tessler Family Professor of Digital and Information Law, Cornell Tech and Cornell Law School

Error Tolerant Classification Protocols with Minimal Disclosure

Jinshuo Dong PhD’14
Post Doctoral Fellow, Institute for Data, Econometrics, Algorithms, and Learning (IDEAL)

Jason Hartline
Professor of Computer Science, Northwestern University

Moderator
Jon Peha
Professor Electrical Engineering & Public Policy, Carnegie Mellon University

A Computer Science Approach to Cartel Agreements: The Case of Cheat Tolerant Cartels

Giovanna Massarotto
Academic Fellow, CTIC, University of Pennsylvania Carey Law School
Regulation of Algorithmic Collusion
Jason Hartline
Professor of Computer Science, Northwestern University

Moderator
Justin (Gus) Hurwitz
Academic Director and Senior Fellow, University of Pennsylvania Carey Law School

Fact and Friction: Mandating Friction to Fight False News
Paul Ohm
Professor of Law, Georgetown University Law Center

Ayelet-Gordon-Tapiero
Fritz Research Fellow, Georgetown University

Police Secrecy: Law Enforcement Privilege and the Criminally Accused
Rebecca Wexler
Assistant Professor of Law, University of California, Berkeley, School of Law

Moderator
Bryan Choi
Associate Professor of Law, Moritz College of Law, The Ohio State University

Towards Digital Decentralization
Chinmayi Sharma
Lecturer, University of Texas at Austin School of Law

Edge Computing
William Lehr
Research Associate, Computer Science and Artificial Intelligence Laboratory (CSAIL), Massachusetts Institute of Technology

Moderator
Konstantinos Stylianou
Professor in Competition Law, University of Glasgow School of Law
1 World Connected

The 1 World Connected initiative was launched in 2016 to provide an empirical foundation for efforts to close the global digital divide. In just the past few years, the proportion of the people of the world able to enjoy the benefits of Internet connectivity surged from one-half to two-thirds. Yet more work needs to be done. The insights generated by 1 World Connected’s research projects aid key decisionmakers, such as government departments and international organizations, in this important work with a data-driven foundation for determining what really works to bring the unconnected online. Over the years, the initiative’s projects have focused on increasing connectivity in the United States (for example, the use of municipal fiber and fixed wireless to connect people in smaller cities and rural areas) plus projects that seek to improve connectivity and access in developing countries in the areas of education, gender, and socioeconomic status. In 2022-2023, 1 World Connected continued its international work.

Increasing Global Connectivity

In September 2022, the University of Pennsylvania, through CTIC’s 1 World Connected project, pledged to the Partner2Connect Digital Coalition (P2C) to be a research and knowledge partner on connectivity and digital transformation. P2C is a multi-agency alliance launched by the International Telecommunication Union (ITU), the United Nations specialized agency for information and communication technologies whose aim is to foster meaningful connectivity and digital transformation globally with a focus on developing countries. The pledge includes producing vital data-driven insights for policymakers and decision-makers and for supporting the evaluation of P2C initiatives.

Addressing Smartphone Affordability as a Barrier to Internet Adoption

1 World Connected’s research shows that universal access to broadband has increased. But even with improved access, the number of people using the Internet remains low, especially in developing countries. This suggests the need to focus on other barriers, and a particularly important one that emerged is smartphone affordability.
In 2022-2023, CTIC continued its collaboration with the United Nations Broadband Commission for Sustainable Development’s Working Group on Smartphone Access to address this barrier to Internet adoption. The Working Group, consisting of experts from diverse global organizations and government departments, appointed Prof. Christopher Yoo as the initiative’s lead expert. Prof. Yoo and the 1 World Connected team of CTIC fellows and Penn students researched and analyzed strategies to improve smartphone access, including local manufacturing of devices, device subsidies, and a reduction in device import duties. The analysis resulted in the identification of higher priority interventions, interventions that merit further exploration, and lower priority interventions. The team’s findings, along with its actionable recommendations to improve universal smartphone affordability, were published in the milestone report, *Strategies Towards Universal Smartphone Access* released at the UN General Assembly 77 in September 2022 in New York City. The CTIC project team included CTIC research fellows Leon Gwaka and Sindhura K S and Penn students Shahana Banerjee, Meghan Moran, and Sophie Roling.

### The Impact of Connectivity on Education and Socioeconomic Outcomes

Education is another major focus for 1 World Connected. The 1 World Connected team is collaborating with UNICEF in Rwanda on a project to assess the impact of GIGA, a UNICEF- and ITU-backed project that aims to connect every school to the Internet by 2030, on education outcomes in Rwanda. The project will apply innovative methods to assess impacts among 50 pilot schools that received connectivity through GIGA. Findings from this project will feed into the country-wide implementation of GIGA. Prof. Yoo, who served as an external expert and advisor for GIGA, toured one of the GIGA pilot schools during his visit to Rwanda in June 2022.

The team is also working on a project to assess the socioeconomic impact of connectivity on socioeconomic outcomes. It will use anonymized tax data, matched with connectivity development efforts, from entities such as the Rwanda Utilities Regulatory Authority (RURA). CTIC research fellow Leon Gwaka visited Rwanda in November 2022 and engaged with potential research partners, including UNICEF, Rwanda Revenue Authority (RRA), and Rwanda Information Society Authority (RISA).
Future Work

CTIC will continue its collaborations with international organizations on projects that promote Internet accessibility and adoption. These include GSMA Mobile for Development Foundation, Broadband Commission for Sustainable Development, ITU’s Partner2Connect Digital Coalition, and EQUALS: The Global Partnership for Gender Equality in the Digital Age. In addition, CTIC recently received a grant from Penn Global to continue its work on the impact of mobile Internet use, well-being, and gender in Bangladesh.

“The involvement of the community members at different stages of the initiative appears to be important…. Community members can participate in many ways including providing manpower, volunteering, and providing security to the initiatives…. In addition, when women are part of the management and oversight, this can bring additional benefits for women in the community, facilitating their access to and meaningful use of the network.”

Community networks as models to address connectivity gaps in underserved communities

1 World Connected (2022)

1 World Connected: Recent Research, Collaborations & Contributions

2022
Community networks as models to address connectivity gaps in underserved communities
1 World Connected publication by Leon Gwaka, Müge Haseki, and Christopher Yoo, 39 INFORMATION DEVELOPMENT 524 (2022)

Mobile Internet Use, Well-being and Gender: Understanding the Links – Findings from Bangladesh and Ghana
GSMA Foundation and GSMA’s Connected Women program
Researchers and report contributors: Leon Gwaka, Müge Haseki, Himani Mehta, and Christopher Yoo

2021
Connecting learners: Narrowing the educational divide
Economist Intelligence Unit (EIU) report commissioned by Ericsson in partnership with UNICEF
Expert interviewee: Christopher Yoo

2020
Ensuring resilient connectivity
Chapter in Education for the Most Marginalised post-COVID-19: Guidance for governments on the use of digital technologies in education
Lead authors: Leon Gwaka, Müge Haseki, and Christopher Yoo

Perceptions of Power: Championing Female Leadership in Tech
Research contributors: Leon Gwaka, Müge Haseki, and Christopher Yoo

2019
Characteristics of At-Scale mHealth Projects in the Global South: A Case Study Approach
1 World Connected study and paper by Müge Haseki, Sharada Srinivasan, and Christopher Yoo
Lowering Legal Barriers to RPKI Adoption

In September 2017, CTIC received a National Science Foundation (NSF) Early-Concept Grants for Exploratory Research (EAGER) grant to determine how to overcome legal barriers that were impeding the deployment of a cybersecurity technology known as the Resource Public Key Infrastructure (RPKI). RPKI is designed to prevent mistakes and malicious acts that can allow Internet traffic intended for one location to be highjacked and rerouted to another destination. The technology has been slow in North America, where American Registry for Internet Numbers (ARIN), the Regional Internet Registry (RIR) for North America, imposed legal requirements that exceeded those imposed by the RIRs responsible for other regions of the world.

After their year-long investigation into these and other areas, Prof. Christopher Yoo and then-CTIC academic fellow David Wishnick issued their report in January 2019. Since then, ARIN has adopted several of the report’s recommendations and continues to address concerns that it raised.

Principal Legal Issues

Under RPKI, holders of Internet addresses cryptographically sign authoritative certificates known as route original authorizations (ROAs) verifying where they are located and place those certificates in a library maintained by the RIR. This permits networks that are routing traffic to engage in route origin validation (ROV) in which they consult the certificate library to make sure that the route they are using is pointing at the correct destination.

On the ROV side, ARIN historically required those engaging in ROV to visit its website and agree to a clickwrap contract known as the Relying Party Agreement (RPA) before accessing its certificate library. This meant that providers of the software needed to validate routes could not preload the location of ARIN’s certificate library in their code. The need for this extra step every time ROV was deployed caused usage rates of ARIN’s certificate library to lag behind other parts of the world. The RPA also included clauses that some networks found problematic, including a blanket indemnification clause and a prohibited conduct clause that limited the distribution of information created with RPKI for research and analysis.

On the ROA side, the principal legal obstacles stemmed from the agreements that Internet address holders must sign before using RPKI. These agreements include arbitration and choice-of-law clauses that government actors were often prohibited by law from accepting. These agreements also required that those who held Internet addresses before ARIN existed to acknowledge that all property rights in their addresses belonged to ARIN.

Progress on Adoption

Since the report’s release, ARIN has made a number of changes that have implemented many of the report’s recommendations. Prof. Yoo has periodically presented progress reports to industry groups on the adoption of proposed changes, most recently at the February 2023 meeting of the North American Network Operators’ Group (NANOG 87), the professional association for Internet engineering, architecture, and operations.

Among the key advances discussed by Prof. Yoo at NANOG 87 were:

- Explicit permission for software validators to distribute their code with ARIN’s certificate library preloaded
- Elimination of language regarding property rights in Internet addresses
- Authorization for broader sharing of RPKI-based information
- Clarification of waiver of arbitration and choice-of-law clauses when barred by law
- Inapplicability of indemnification to ARIN’s gross negligence

The project also uncovered operational issues needed for RPKI to work effectively. These include better information about certain operational practices such as uptime, update frequency, response times, and community deployment of best practices. The dialogue prompted by the report has led to greater collaboration to address these concerns.

CTIC’s RPKI project sparked an unprecedented degree of cooperation among government agencies, academics, the Internet community, and ARIN to help bolster Internet routing security in North America and worldwide. Prof. Yoo will continue to monitor and refine recommendations and report on developments to the Internet industry.
Emerging Technologies
Current and Emerging Issues in Technology, Intellectual Property, and Entertainment & Media Law

October 11, 2022

Penn Carey Law faculty gather each year to discuss new issues, legislation, cases, and other major changes to the legal landscape. At this event, faculty examined right of publicity, fair use, net neutrality, and antitrust-related issues. CTIC, Penn Intellectual Property Group (PIPG), and Entertainment & Sports Law Society (ESLS) co-sponsored this event.

Gideon Parchomovsky
Robert G. Fuller Jr. Professor of Law, University of Pennsylvania Carey Law School

Jennifer Rothman
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School

Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

October 20, 2022

Author Orly Lobel discussed her response to the current “techlash” and fears of artificial intelligence, automation, and datafication. Her view is that while we cannot stop technological development, we can steer its course according to our most fundamental values, putting it on a more balanced path forward.

Orly Lobel
Warren Distinguished Professor of Law, University of San Diego School of Law

Moderator
Jennifer Rothman
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School
Fifth Annual Junior Faculty Forum on Law and STEM

October 21-22, 2022

Launched in 2017, the forum spotlights and promotes interdisciplinary research conducted by young scholars on how STEM developments inform the law and vice versa. The event is a joint project of CTIC, Northwestern Pritzker School of Law, and Stanford Law School.

Opening Remarks

Hari Osofsky
Dean and Myra and James Bradwell Professor of Law, Northwestern Pritzker School of Law

David Schwartz
Frederic P. Vose Professor of Law, Northwestern Pritzker School of Law

Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act

John (Alex) Erwin
Assistant Professor of Law, Florida International University College of Law

Commentators

Kimberly Gray
Roxelyn and Richard Pepper Family Chair in Civil and Environmental Engineering, McCormick School of Engineering, Northwestern University

Hari Osofsky
Dean and Myra and James Bradwell Professor of Law, Northwestern Pritzker School of Law
Measuring Follow-On Innovation
Sepehr Shahshahani
Associate Professor, Fordham University School of Law
Janet Freilich
Associate Professor of Law, Fordham University School of Law
Commentators
Sharon Belenzon
Professor, Fuqua School of Business, Duke University
David Schwartz
Frederic P. Vose Professor of Law, Northwestern Pritzker School of Law

Genetic Property Governance
Shelly Simana
Fellow, Center for Law and the Biosciences, Stanford Law School
Commentators
Laura Pedraza-Fariña
Professor of Law, Northwestern Pritzker School of Law
Helen Tilley
Associate Professor, Weinberg College of Arts & Sciences, Northwestern University

Addiction and Liberty
Matthew Lawrence
Associate Professor, Emory University School of Law
Commentators
Nancy Campbell
Professor, Department of Science and Technology Studies, Rensselaer Polytechnic Institute
Paul Gowder
Professor of Law, Northwestern Pritzker School of Law

An Empirical Study of Clarity in Legal Text
Jonathan Choi
Associate Professor, University of Minnesota Law School
Commentators
Kristian Hammond
Bill and Cathy Osborn Professor of Computer Science, McCormick School of Engineering, Northwestern University
John McGinnis
George C. Dix Professor in Constitutional Law, Northwestern Pritzker School of Law
Emerging Technologies

**Femtechnodystopia**
Leah Fowler  
Research Assistant Professor, University of Houston Law Center

Michael Ulrich  
Assistant Professor of Health Law, Ethics & Human Rights, School of Public Health and School of Law, Boston University

**Commentators**
Deborah Tuerkheimer  
Class of 1967 James B. Haddad Professor of Law, Northwestern Pritzker School of Law

Tracy Weitz  
Professor of Sociology, American University

**Food Tax Substitution Effects**
Noah Smith-Drelich  
Assistant Professor of Law, Chicago-Kent College of Law, Illinois Institute of Technology

**Commentators**
Jonathan Masur  
John P. Wilson Professor of Law, University of Chicago Law School

Seema Shah  
Associate Professor in Pediatrics, Northwestern University Medical School; Director of Research Ethics, Lurie Children’s Hospital of Chicago

**The Five Internet Rights**
Nicholas Nugent  
Karsh Fellow and Lecturer in Law, University of Virginia School of Law

**Commentators**
Kenneth Calvert  
Professor and Gartner Group Endowed Chair in Network Engineering, College of Engineering, University of Kentucky

Christopher Yoo  
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

**Nano Contracts**
Yonathan Arbel  
Associate Professor of Law, University of Alabama School of Law

**Commentators**
Shane Greenstein  
Martin Marshall Professor of Business Administration, Harvard Business School

Mark Lemley  
William H. Neukom Professor of Law, Stanford Law School

**Life, Liberty, and Data Privacy: The Global Cloud and the Criminally Accused**
Rebecca Wexler  
Assistant Professor of Law, University of California, Berkeley, School of Law

**Commentators**
Matthew Kugler  
Professor of Law, Northwestern Pritzker School of Law

Josephine Wolff  
Associate Professor of Cybersecurity Policy, Tufts University

**Embracing Digital**
Thomas Haley  
Research Assistant Professor, University of Virginia School of Law

**Commentators**
Jean Camp  
Professor of Informatics, Luddy School of Informatics, Computing, and Engineering, Indiana University

Aaron Perzanowski  
Thomas W. Lacchia Professor of Law, University of Michigan Law School
The Emerging Commercial Space Age: Legal and Policy Implications

February 3, 2023

Journal of Law and Innovation (JLI) Annual Symposium co-sponsored by CTIC

The early decades of space exploration and satellite deployment were dominated by geopolitical rivalries among governments over resources located thousands of kilometers in the sky. Today, private enterprises play increasingly important roles in supporting human spaceflight, tapping into the benefits of outer space resources, and providing broadband service through low-earth orbit satellites. The symposium explored how the growing commercialization of the space and satellite industries is placing pressure on regulatory, legal, and policy frameworks to adapt.

Property Rights Over the Moon or On the Moon? The Legality of Space Resource Exploitation on Celestial Bodies
Frans von der Dunk
Harvey & Susan Perlman Alumni and Othmer Professor of Space Law, University of Nebraska College of Law

Commentator
Jean Galbraith
Professor of Law, University of Pennsylvania Carey Law School

Regulating Space 2.0: A Playbill
Melissa Durkee
Allen Post Professor, University of Georgia

Commentator
Rebecca Crootof
Associate Professor of Law, University of Richmond

Industry Insights on the Emerging Commercial Space Age
Michael Carlson L’10
Corporate Counsel, Amazon Project Kuiper

David Goldman L’03
Senior Director, Satellite Policy, SpaceX

Moderator
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania
**Controlling Decisions on Anti-Satellite Weapons: A Policy-Oriented Perspective**

**Gershon Hasin**  
Martin R. Flug Visiting Lecturer in Law, Yale Law School

**Commentator**  
**David Koplow**  
Scott K. Ginsburg Professor of Law, Georgetown University Law Center

**“Open Skies” to Traffic Jams in 12 GHz: A Short History of Satellite Radio Spectrum**

**Thomas Hazlett**  
H.H. Macaulay Endowed Chair in Economics, Clemson University

**Commentator**  
**Gregory Rosston**  
Gordon Cain Senior Fellow, Stanford Institute for Economic Policy Research (SIEPR), Stanford University

**Should LEO Mean the End of the Universal Service Program as We Know It?**

**Scott Wallsten**  
President and Senior Fellow, Technology Policy Institute (TPI)

**Commentator**  
**Michelle Connolly**  
Professor of the Practice of Economics, Duke University
It’s a Small Metaverse

March 30, 2023

*Penn Intellectual Property Group (PIPG) Spring Symposium*

Panelists discussed emerging legal issues and challenges arising from the intersection of intellectual property and virtual reality. The event was co-sponsored by CTIC; Internet, Tech & Society Collaborative (ITSC); Irell & Manella LLP; Kirkland & Ellis LLP; and McDermott Will & Emery.

**Jon Garon**
Professor of Law, Shepard Broad College of Law, Nova Southeastern University

**Osagie Imasogie LLM’85**
Senior Managing Partner, PIPV Capital; Adjunct Professor of Law, University of Pennsylvania Carey Law School

**Moderator**
**Jennifer Rothman**
Nicholas F. Gallicchio Professor of Law, University of Pennsylvania Carey Law School
Emerging Technologies

Second LawTech Consortium

May 15-16, 2023

This event brought together scholars from universities across the globe to exchange insights across a broad range of issues relating to law and technology. Hosted this year by the Centre for Intellectual Property Policy (CIPP) at McGill University, the event examined data, artificial intelligence, governance of innovation, and other cutting-edge topics. Institutional members of the consortium are McGill University, University of Pennsylvania, University of Trento, Hebrew University of Jerusalem, Université Catholique de Louvain, University of KwaZulu-Natal, Université Paris-Saclay, Waseda University, and The University of Hong Kong. Penn Carey Law Profs. Christopher Yoo and Gideon Parchomovsky are two of the consortium’s coordinators.

Data

Big Data Protection in Japan: A Role-Model for Other Jurisdictions?
Christoph Rademacher
Professor of Law, Waseda University

Are Bioinformatics Databases Sufficiently Protected in South Africa?
Deverasi Bellengère
Lecturer, University of KwaZulu-Natal

The Res Nullius Construction of Human Genomic Data
Donrich Thaldar
Professor of Law, University of KwaZulu-Natal

Artificial Intelligence

AI’s Zero-Day: Adversarial Machine Learning, the Legal Boundaries of Computer Trespass, and Self-Help Remedies
Gerald Adams
Research Fellow, University of Pennsylvania Carey Law School

Metaverse, AI and Law: A Legal-Philosophical Inquiry
Mitsuki Hirai
Assistant Professor, Waseda University
Emerging Technologies | 97

ChatGPT and the Generative AI Tools: Hold-Up on Intellectual Labor? How Copyright is (Un)fit to Deal with this Issue under EU Law

Alain Strowel
Professor, Université Catholique de Louvain

Governance
Recognizing the State’s Role in the Development of Technological Statutes in Copyright Law

Yuxiao Zhang
DCL Candidate, McGill University

Governing Genomic Health Research in Africa: The Legal and Ethical Conundrums of Benefit Sharing Arrangements

Bonginkosi Shozi
Honorary Research Fellow, University of KwaZulu-Natal

The DSA: Global Digital Services that are (Still) Regulated Locally

Enguerrand Marique
PhD Researcher, Université Catholique de Louvain

Patent Scores
Gideon Parchomovsky
Robert G, Fuller, Jr. Professor of Law, University of Pennsylvania Carey Law School; Wachtell, Lipton, Rosen & Katz Chair in Corporate Law, Hebrew University of Jerusalem

Domestic Law Approaches
What is the Relationship Between Language and Thought?: Linguistic Relativity and Its Implications for Section 230 and Copyright

Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania

Regulating the Upside Down: The Law of Interoperability

Pierre-Emmanuel Moyse
Full Professor, Faculty of Law, McGill University

Pseudo-Contract and Privacy Policy

Xiaowei Yu
Post-Doctoral Fellow, The University of Hong Kong

Regulation of Technology and Data
Can a Cartel be Cheat Tolerant?: Insights from Computer Science

Giovanna Massarotto
Academic Fellow, CTIC, University of Pennsylvania Carey Law School

The Right to Know Algorithms (Online)

Haochen Sun
Professor of Law, The University of Hong Kong

Towards the Re-Use of Personal Data Concerning Health for Scientific Research: A Proactive Approach within the European Legal Framework

Paolo Guarda
Assistant Professor, University of Trento

Giorgia Bincoletto
Research Fellowship Holder, University of Trento

International Law Aspects of Technology
The Human Right to Science: From the Secondary Publication Right to the Right to Open Scientific Publications

Robert Caso
Full Professor, University of Trento

ChatGPT: A New Player in the Game of Treaty Interpretation

Jack Nelson
Editor, Annals of Air and Space Law, McGill University

When Does Technology Become Heritage? A View Through the UNESCO Convention on Intangible Cultural Heritage (ICH)

Tomer Broude
Bessie and Michael Greenblatt, Q.C., Chair in Public and International Law, Hebrew University of Jerusalem
Health Care & Life Sciences Law
The Wide Reach of *Dobbs*: Impacts Beyond Abortion

November 9, 2022

On June 24, 2022, the U.S. Supreme Court’s decision in *Dobbs v. Jackson Women’s Health Organization* overturning *Roe v. Wade*’s recognition of a federal constitutional right to an abortion, left abortion regulation to the states. But *Dobbs* is far more than an abortion case. Experts on FDA law and regulation and public health discussed the broader impacts of the ruling and what to expect next. The event was presented by CTIC and the Department of Medical Ethics and Health Policy of the University of Pennsylvania Perelman School of Medicine.

Opening Remarks

Alison Hoffman
Professor of Law, University of Pennsylvania Carey Law School

Christopher Yoo
John H. Chestnut Professor of Law, Communication and Computer & Information Science, University of Pennsylvania

Panelists

Greer Donley
John E. Murray Faculty Scholar and Associate Professor of Law, University of Pittsburgh School of Law

Wendy Parmet
Matthews Distinguished University Professor of Law and Professor of Public Policy and Urban Affairs, Northeastern University

Patti Zettler
Associate Professor, The Ohio State University Moritz College of Law

Moderator

Dorothy Roberts
George A. Weiss University Professor of Law & Sociology, Raymond Pace & Sadie Tanner Mossell Alexander Professor of Civil Rights, and Professor of Africana Studies, University of Pennsylvania
Greer Donley, Patti Zettler, Dorothy Roberts, Wendy Parmet
Entertainment & Media Law
FCC Commissioner Geoffrey Starks on the Future of the Video Industry

October 18, 2022

Commissioner Geoffrey Starks of the Federal Communications Commission (FCC) offered observations on the future of the video industry, focusing on how unfolding changes posed both positive impacts and risks for consumers. He explored the impending deployment of ATSC 3.0, the next generation terrestrial broadcast system; privacy and data security implications related to advertising; and other issues. An expert practitioner and scholar provided commentary. The event was co-sponsored by CTIC; Penn Intellectual Property Group (PIPG); Internet, Tech & Society Collaborative (ITSC); and Entertainment and Sports Law Society (ESLS).

Geoffrey Starks
Commissioner, FCC

Commentators
Jennifer Tatel
Partner, Wilkinson Barker Knauer LLP; former Acting General Counsel, FCC

Joseph Turow C’72 G’73 PhD’76
Robert Lewis Shayon Professor of Media Systems & Industries, University of Pennsylvania

Moderator
Christopher Yoo
John H. Chestnut Professor of Law, Communication, and Computer & Information Science, University of Pennsylvania
Focus on Students
Focus on Students

Preparing Penn Carey Law students academically and professionally for careers where law and technology converge is a core CTIC mission. The Center and its faculty educate future technology law practitioners, scholars, and policymakers through innovative academic programs and real-world learning, fellowships and internships, student group collaborations, and career guidance and events.

Experiential Learning

Detkin Intellectual Property & Technology Legal Clinic

The Detkin Clinic is unique among IP clinics nationwide. It assumes a sizeable percentage of work from Penn Center for Innovation (PCI), University of Pennsylvania’s technology transfer office. Law students support PCI’s efforts to analyze legal and business options and choose the best path to commercialize early-stage discoveries. Students also represent entrepreneurial ventures, investors, nonprofits, and individual artists and creators in a broad-based transactional practice that increasingly presents evolving issues of privacy, data protection and ownership, and authorship of product created through artificial intelligence. Through the clinic, students gain skills that help them become agile practitioners in today’s dynamic tech sector.

Journal of Law & Innovation (JLI)

Created by CTIC and jointly run by faculty and students, JLI is a year-long course that involves students in the publication of an annual scholarly volume and production of a symposium. Working closely with faculty, student members explored this year’s topic, “The Emerging Commercial Space Age: Legal and Policy Implications.” During the fall semester, students read and critically analyzed prominent legal scholarship with guidance from faculty; during the spring semester, they helped organize and manage the symposium, collaborated with authors to substantively edit articles, and brought the volume to publication.

2022-2023 Board of Officers

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JLI students with Christopher Yoo
Penn Entrepreneurial Engineers and Penn Carey Law (PEEPL)

PEEPL is a student-run legal counseling simulation supervised by Penn Carey Law Practice Prof. Cynthia Dahl. PEEPL pairs senior law students with teams of engineering students enrolled in the engineering entrepreneurship class at Penn's School of Engineering and Applied Science (SEAS). After teams pitch a mock business to a panel of venture capitalists, law students counsel on structure and entity selection, agreements and operational documents, intellectual property, and other transaction-related issues.

CTIC Summer Public Interest Fellowships

The CTIC Summer Public Interest Fellowship program supports 1L and 2L students who obtain summer positions with public interest or government organizations in technology policy, intellectual property, cyberlaw, privacy, and other areas. The fellowships allow students to obtain legal work experience while making important contributions to the missions of nonprofits and government agencies. There were two recipients in 2023.

At the Federal Communications Commission (FCC), Maxwell Atkins L’25 assisted the E-rate team in the Telecommunications Access Policy Division. The E-rate program, or the schools and libraries universal service support program, helps schools and libraries to obtain affordable broadband. Atkins helped staff in the issuance of a new order attempting to give surrounding funding to Tribal libraries by reviewing FCC attorneys’ work and comments submitted to the office. “I found the experience to be eye opening in how important administrative law is as a vehicle for the public to have a voice in what changes are made by an agency,” he said.

Melda Gurakar L’25 worked at the FCC’s Office of General Counsel (OGC). She conducted legal research on a variety of communications and administrative law issues for OGC attorneys, including addressing questions directed to OGC by FCC bureaus and tracking U.S. Supreme Court and D.C. Circuit court decisions that might impact the agency. Gurakar said, “I had an incredibly positive experience, feeling like I’ve already grown and learned tremendously. I love the fast-paced and intense yet collegial environment at the OGC. This experience has inspired me to explore how I can do more government work in my career.”
Innovative Degree Programs

Penn Carey Law offers innovative programs that train students to be leaders in the study of law and technology. CTIC is an ardent advocate of these offerings, playing a role in their development to ensure that students understand the complexities and meet the challenges of a technology landscape always in flux.

Joint Degree Programs with Penn Engineering

In partnership with University of Pennsylvania School of Engineering and Applied Science (SEAS), Penn Carey Law offers joint degree programs in law and technology: JD/MCIT (Master of Computing and Information Technology), which requires no engineering or computer science background; JD/MSE (Master of Science in Engineering) for students with strong undergraduate backgrounds in engineering or computer science; and JD/PhD degrees.

CTIC Law & Technology Interdisciplinary Scholarship

Each year, through its competitive Interdisciplinary Scholarship Program, CTIC awards $40,000 to up to three students pursuing a joint law-engineering degree to help offset tuition expenses for the additional year of study at SEAS. Penn Carey Law student Jessie Levin L’25 is the most recent recipient of the scholarship. Levin will begin the JD/Master of Computing and Information Technology (MCIT) program in the fall 2023 semester. “I’m seeking a joint degree to learn how to effectively translate between the technology world and the legal world when advising businesses and policymakers in the innovation sphere,” she said, adding that “the MCIT’s strong technical focus will give me the coding and engineering skills and experience to become a better ‘translator.’”

LLM and ML Degree Programs with IP and Tech Law Concentrations

Penn Carey Law offers an LLM degree with an intellectual property and technology law concentration and allows Penn professional, graduate, and upper-class undergraduate students to pursue a Certificate in Law or Master in Law (ML) degree to advance their credentials in their law and technology discipline.

Milestone Law ML Course for Penn Engineering Students

In 2022, SEAS approved Penn Carey Law’s ML class, Technology Law & Ethics, for its undergraduate CIS (Computer and Information Science), CMPE (Computer Engineering), and NETS (Networked and Social Systems) students to obtain the programs’ requisite ethics credit. The course, taught by CTIC research fellow Alex Mueller, is the result of an innovative SEAS/Penn Carey Law collaboration steered by Prof. Christopher Yoo. Yoo stated, “Along with creating a new type of professional with advanced training in both law and technology, this class supplements the interdisciplinary research supported by National Science Foundation (NFS) grants to help ensure that technical research is actually deployed instead of simply sitting on the shelf.”
**Career Direction**

Preparing students for a successful, gratifying career in law and technology is a core mission of CTIC. The Center began the 2022-2023 academic year with *Opportunities in Law and Technology*, an annual event that orients students to the many law and technology offerings at Penn Carey Law and elsewhere at the university. CTIC continued its *Career Speaker Series* consisting of sessions at which law school alumni and other practicing attorneys share their professional experiences and career insights. In March 2023, CTIC presented *Careers in Health Law*, a program of Penn Carey Law adjunct professors and lecturers in law who discussed their varied and distinguished careers in health law.

**Career Speaker Series**

**Marc Paul L’94**  
Vice President of Policy, Charter Communications

**MacKinzie Neal L’19**  
Associate, Skadden Arps, Intellectual Property and Technology

**Gigi Sohn L’86**  
Distinguished Fellow at the Georgetown Law Institute for Technology Law & Policy; Co-Founder and former CEO of Public Knowledge  
*Co-sponsored by the DC Law Club and Internet, Tech & Society Collaborative (ITSC)*

**Careers in Health Law**

**Mahnu Davar L’07 MBE’07**  
Partner, Arnold & Porter LLP

**Lee Dobkin L’82**  
Deputy General Counsel for the University and Chief Counsel, Penn Medicine

**Peter Grossi**  
Senior Litigator, Arnold & Porter LLP

**Paul Kaufman**  
Assistant U.S. Attorney, Civil Division of the United States Attorney’s Office for the Eastern District of Pennsylvania

**Regan Safier**  
Partner, Kline & Specter PC

**Lauren Steinfeld C’89**  
Chief Privacy Officer, Penn Medicine

**Lilton Taliaferro L’84 WG’84**  
Vice President, Deputy General Counsel, and Assistant Secretary, Independence Blue Cross (retired)

**Moderator**  
**Allison Hoffman**  
Professor of Law and Deputy Dean, University of Pennsylvania Carey Law School

*Careers in Health Law panel*
Student Engagement

Penn Intellectual Property Group (PIPG)
The student hub for intellectual property
Established in 2001, PIPG focuses on creating and supporting interest in intellectual property and technology law at Penn Carey Law, throughout the university, and in the broader Philadelphia community. PIPG continues to expand its efforts, which include planning and hosting academic symposia, career panels, and social events. CTIC enjoys a collaborative relationship with PIPG, which co-sponsored the events *Current and Emerging Issues in Technology, Intellectual Property, and Entertainment & Media Law* on October 11, 2022; *FCC Commissioner Geoffrey Starks on the Future of the Video Industry* on October 18, 2022; and *Patent Eligibility and the Future of § 101* on November 11, 2022. PIPG presented two symposia: *Creative Control: IP in a World of Democratized Content Creation* on October 14, 2022, and *It’s a Small Metaverse* on March 30, 2023, and was a co-sponsor of *ChatGPT*, a February 2023 session of the student-led lunchtime series *Bytes & Bites*.

Penn Carey Law Antitrust Association (PCLAA)
A focus on antitrust/competition legal developments across the globe
PCLAA provides a forum for students to research, analyze, and discuss antitrust-related matters through guest speakers, panels, and academic activities. It explores such topics as merger control, cartel and unilateral conduct investigations, and the interface between antitrust and other regulated areas. CTIC co-sponsored PCLAA’s annual symposium *Worldwide Trends in Competition Law and Policy* on April 7, 2023. Additionally, PCLAA was a co-sponsor of *Fireside Chat: Life of an Antitrust Litigator in Male-Dominant Spaces—Antitrust Regulation* on October 19, 2022.

Internet, Technology & Society Collaborative (ITSC)
A spotlight on the convergence of law and technology
ITSC is a group for students interested in legal issues related to technology and innovation, including digital privacy, platform liability, and telecommunications law. Through various substantive and career exploration events and resources, ITSC serves as a student-run hub for all things tech. ITSC co-sponsored two October 2022 events, *FCC Commissioner Geoffrey Starks on the Future of the Video Industry* and *Fireside Chat: Life of an Antitrust Litigator in Male-Dominant Spaces—Antitrust Regulation and Tech Law*. It also presented *ChatGPT*, a February 2023 session of the student-led lunchtime series *Bytes & Bites*.

Entertainment & Sports Law Society (ESLS)
A group dedicated to the legal, business, and ethical issues inherent in the sports and entertainment industries
ESLS explores the legal, business, and ethical issues that arise in the sports and entertainment industries. Through events, ESLS facilitates an ongoing dialogue within the Penn Carey Law community on such issues as labor and collective bargaining, contract law and negotiations, and intellectual property. It also provides networking opportunities and guidance on obtaining internships and jobs. ESLS co-sponsored two October 2022 events: *Current and Emerging Issues in Technology, Intellectual Property, and Entertainment & Media Law* and *FCC Commissioner Geoffrey Starks on the Future of the Video Industry*. 
DC Law Club

A group interested in life inside the Beltway

The DC Law Club unites members of the Penn Carey Law community who are interested in working in Washington, D.C. The club holds formal and informal events for students to learn about the unique legal landscape in the D.C. area and to build a network among peers and alumni in the region. The group is inclusive, creating spaces to bring together students who are interested in navigating career opportunities there. The DC Law Club co-sponsored the Career Speaker Series session with Gigi Sohn L’86 in March 2023.

Health Law and Policy Project (HeLPP)

A group focused on health law and policy

HeLPP provides opportunities for students to gain practical experience in health law and policy. It hosts four main projects: Medical Legal Community Partnership of Philadelphia Legal Assistance; Health, Education and Legal Assistance Project: A Medical-Legal Partnership; Pennsylvania Health Law Project; and Medicare Rights Center. Students research and write legal memoranda to support the projects and, through the Medical Legal Community Partnership, partner with Philadelphia Legal Assistance to work with clients in need.

Penn Carey Law STEM Club

A supporting network for former STEM students

The club provides a space for students who majored in science, technology, engineering, and math (STEM) and STEM-adjacent fields to adapt to the unique challenges in law school and the legal profession. The goals of this community of scientists are to foster connections among Penn Carey Law students who share similar academic backgrounds, help them prepare for a legal career that capitalizes on their technical abilities, and offer a social network of science-oriented law students.

Public Interest Technology University Network (PIT-UN) and PIT@Penn

Technology in service of the public good

In 2020, University of Pennsylvania joined the Public Interest Technology University Network (PIT-UN), a national group of colleges and universities committed to building the nascent field of public interest technology and educating a new generation of civically engaged technologists. Affiliated with PIT-UN is PIT@Penn, a Penn student-run organization that aims to bridge the gap between undergraduate students and the public interest technology sector through professional development and social community activities and events. Prof. Christopher Yoo led the Penn initiative to join PIT-UN and helped establish PIT@Penn.
Patent Law and IP-Focused Clerkships

CTIC is proud of the Penn Carey Law students and graduates who recently completed clerkships, are currently clerking, or are due to clerk:

**Lavi Ben Dor L'20**
The Honorable Kent A. Jordan, U.S. Court of Appeals for the Third Circuit, 2021-22 Term

**Michael Gniwisch L'22**
The Honorable Kent A. Jordan, U.S. Court of Appeals for the Third Circuit, 2023-24 Term

**Robert Hampton L'18**
The Honorable Jimmie V. Reyna, U.S. Court of Appeals for the Federal Circuit, 2022-23 Term

**Michael Hilyard L'22**
The Honorable Kent A. Jordan, U.S. Court of Appeals for the Third Circuit, 2022-23 Term

**Rhochelle Krawetz L'21**
The Honorable Timothy B. Dyk, U.S. Court of Appeals for the Federal Circuit, 2022-23 Term

**Alicia Lai L'21**
The Honorable Tiffany P. Cunningham and the Honorable Kathleen M. O’Malley, U.S. Court of Appeals for the Federal Circuit, 2021-22 Term; the Honorable Edward M. Chen, U.S. District Court for the Northern District of California, 2022-23 Term

**Josie Little L'23**
The Honorable Tiffany P. Cunningham, U.S. Court of Appeals for the Federal Circuit, 2024-2025 Term

**Robert McMullen L'22**
The Honorable Raymond C. Clevenger III, U.S. Court of Appeals for the Federal Circuit, 2022-2023 Term

**Steven Mills L'19**
The Honorable Yvonne G. Rogers, U.S. District Court Judge for the Northern District of California, 2021-22 Term

**Marguerite Sawin L'23**
The Honorable Raymond C. Clevenger III, U.S. Court of Appeals for the Federal Circuit, 2023-2024 Term
CTIC News
**Faculty Developments**

**Justin (Gus) Hurwitz** joined CTIC’s faculty as Senior Fellow and Academic Director. His work focuses on the interface between law and technology and the role of regulation in high-tech industries. Gus hails from the University of Nebraska College of Law where he was a professor and co-director of its Space, Cyber & Telecom Law Program. Gus was CTIC’s inaugural research fellow from 2011 to 2013.

**Visiting Scholars**

Penn Carey Law and CTIC welcomed **Yong Lim** as a Bok Visiting International Professor. Prof. Lim is breaking new ground through his research on the role of AI and big data in competition law. He is an associate professor of law at Seoul National University (SNU) and co-director of its AI Policy Initiative at the Center for Law and Economics.

**Waseem Moorad**, Visiting Assistant Practice Professor of Law, served as Acting Director of Penn Carey Law’s Detkin Intellectual Property and Technology Legal Clinic. Prof. Moorad spent 15 years at the U.S. Patent and Trademark Office (USPTO) in several patent examiner positions in the areas of electrical and computer arts and mechanical and petroleum technologies. He is a founding member of the law firm Kondori & Moorad.

**Joel Steckel** WG’79 WG’80 GrW’82, Professor of Marketing at New York University’s Stern School of Business, visited Penn as CTIC’s distinguished guest and collaborated on projects and events concerning trademarks/brands and antitrust-market structure. He received his PhD, MA, and MBA from the Wharton School.

**Faculty News Bytes**

**Christopher Yoo** is now a member of the National Academies of Sciences, Engineering, and Medicine’s (NASEM) Committee on the Impact of Social Media on the Health and Wellbeing of Adolescents and Children. The committee is charged with examining current data, identifying needed research, and recommending steps parents, social media companies, and public officials can take to maximize social media’s benefits and minimize its potential harm on adolescents and children.

In March 2023, **Anita Allen**, Henry R. Silverman Professor of Law and Professor of Philosophy, received a Privacy Papers for Policymakers Award by the Future of Privacy Forum (FPF) for her pathbreaking paper, “Dismantling the ‘Black Opticon’: Privacy, Race, Equity, and Online Data-Protection Reform,” published in the Yale Law Journal Forum. The awards recognize leading privacy scholarship relevant to policymakers in the U.S. Congress and federal agencies and to international data protection authorities.
Federal Trade Commission (FTC) Chair Lina Khan appointed Aviv Nevo, George A. Weiss and Lydia Bravo Weiss University Professor, as the agency’s Director of Bureau of Economics. Prof. Nevo, who is on leave from the School of Arts & Sciences and the Wharton School, began his new role in January 2023.

In its 2023 “Hollywood’s Top 12 Law Schools,” The Hollywood Reporter ranked Penn Carey Law ninth and noted Jennifer Rothman, Nicholas F Gallicchio Professor of Law, “as among the foremost experts on the right of publicity.” Prof. Rothman’s blog, Rothman’s Roadmap to the Right of Publicity (rightofpublicityroadmap.com), features judicial and legislative updates in this and other IP areas.

R. Polk Wagner, Michael A. Fits Professor of Law and CTIC Co-Director, planned and participated in Penn Carey Law’s 2023 Master in Law Annual Lecture, “CRISPR: Patent Disputes and Licensing Challenges.” Additional participants included Kiran Musunuru ML’19, Professor of Cardiovascular Medicine and Genetics at Penn’s Perelman School of Medicine, and the Honorable Leonard P. Stark, Circuit Judge for the U.S. Court of Appeals for the Federal Circuit.

In 2023, Tess Wilkinson-Ryan L’05 G’06 PhD’08, Professor of Law and Psychology, published her first book, Fool Proof: How Fear of Playing the Sucker Shapes Ourselves and the Social Order—and What We Can Do About It (HarperCollins), which brings her social science perspective to transactions of all kinds—contractual, familial, and even political—to argue that the deep psychological aversion to feeling scammed is an underappreciated motivator of human behavior.

Kevin Werbach, Liem Sioe Liong/First Pacific Company Professor at the Wharton School, launched the Ivy League’s first certificate program in the metaverse, exploring how technologies like Web3, VR, and AR can provide new opportunities for business professionals and executives.

Kartik Hosanagar, John C. Hower Professor and Professor of Operations, Information and Decisions at the Wharton School, launched Kartik’s Substack, a newsletter on AI, entrepreneurship, creativity, and mindfulness.

CTIC research fellow Leon Gwaka was named a 2023 Internet Law & Policy Foundry Fellow. The Foundry is an organization for Internet law and policy professionals that offers a platform for professional development, constructive debate, and network-building among attorneys and policy analysts seeking to help shape the development of Internet law and policy.

Gallery
Polk Wagner at Penn Carey Law's 2023 Master in Law Annual Lecture

Participants of the 2023 Lastowka Cyberlaw Colloquium in Philadelphia
Christopher Yoo with members of JLI at its annual symposium

Global Patent Law Conference participants in Tokyo
Herbert Hovenkamp with members of PCLAA at its second annual symposium

Christopher Yoo at a JLI information session for students
Tess Wilkinson Ryan's *Fool Proof* book launch event with David Hoffman

Christopher Yoo and Henry Hoberman at a Benjamin Franklin Society and Penn Carey Law Alum event
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