

BIO BOOKLET

Seventh Annual Fintech Conference

| September 7–8, 2023

The Seventh Annual Fintech Conference

Welcome to the Seventh Annual Fintech Conference at the Federal Reserve Bank of Philadelphia. This year's two-day event is co-organized with the Wharton School of the University of Pennsylvania, the School of International and Public Affairs at Columbia University, the University of Cambridge, the Brookings Institution, and the Bank Policy Institute.

Since we first launched our fintech conference series in 2017, our goal has been to provide a platform for fintech experts from a variety of backgrounds to discuss emerging issues in financial technology, their impact, and the appropriate policy responses. Our past conferences have covered issues involving the benefits and risks of artificial intelligence/machine learning; the future of blockchain; digital cash, including central bank digital currency and stablecoins; buy now, pay later; consumer protection; fintech partnership; Web 3.0; the metaverse; and more. This year, we are focusing on recent shifts in the fintech landscape and exploring potential approaches to fintech regulation.

We are looking forward to hearing from our esteemed speakers, including experts and senior executives from fintech regulators, fintech firms, and banks. Discussions will follow the latest industry advances and emerging trends for what we can expect to be engaging conversations and plenty of opportunities for networking. As in previous years, we will be inviting reporters to join our sessions. All sessions will also be recorded, and the videos will be posted on the conference website and made publicly available and searchable after the event.

For those who want to explore our topics in past events, here are links to previous annual fintech conferences.

2022: [Sixth Annual Fintech Conference \(philadelphiafed.org\)](https://philadelphiafed.org)

2021 Virtual Conference: [Fifth Annual Fintech Conference \(philadelphiafed.org\)](https://philadelphiafed.org)

2020 Virtual Conference: [Fourth Annual Fintech Conference \(philadelphiafed.org\)](https://philadelphiafed.org)

2019: [Third Annual Fintech Conference \(philadelphiafed.org\)](https://philadelphiafed.org)

2023 Organizing Committee

Julapa Jagtiani, Federal Reserve Bank of Philadelphia

Richard Herring, The Wharton School of the University of Pennsylvania

Patricia C. Mosser, Columbia University

Chris Feeney, Bank Policy Institute

Aaron Klein, The Brookings Institution

Andrei Kirilenko, University of Cambridge

Raghu Rau, University of Cambridge

Day 1 – Thursday, September 7

- 9:00 a.m. Registration and Light Refreshments**
- 10:00 a.m. Opening Remarks**
Patrick T. Harker, Federal Reserve Bank of Philadelphia
- 10:20 a.m. Fireside Chat with Rohit Chopra**
Rohit Chopra, Consumer Financial Protection Bureau
MODERATOR: Timothy Massad, Harvard University and Former Commodity Futures Trading Commission Chair
- 10:50 a.m. The Roles of DeFi and Bank Intermediation in the Year 2050**
FEATURED SPEAKER: Brian Brooks, Valor Capital Group and Former Acting U.S. Comptroller of the Currency
MODERATOR: Michael B. Greenwald, Amazon Web Services
- 11:20 a.m. Keynote Lecture**
David Mazières, Stanford University *“Digital Currency — How Architecture Enables Innovation”*
- 11:50 a.m. Break**
- 12:10 p.m. The Future of Payments, Cryptocurrencies, and Stablecoins**
MODERATOR: Antoine Martin, Federal Reserve Bank of New York
PANELISTS:
Hilary J. Allen, American University
Christian Catalini, Lightspark
Paul Grewal, Coinbase Global, Inc.
Stephen Diehl, ZeroLink Inc. and Center for Emerging Tech Policy
Dante Disparte, Circle
Aaron Klein, The Brookings Institution
- 1:05 p.m. Lunch**

Day 1 – Thursday, September 7 (*continued*)

- 2:25 p.m.** **Cross-Border Payments, Digital Cash, and CBDC**
- MODERATOR:** Paul Wong, Stellar Development Foundation
- PANELISTS:**
Martin Chorzempa, Peterson Institute for International Economics
Carlos Brandt, Central Bank of Brazil
Alonso Alfaro Ureña, Central Bank of Costa Rica
Rusiru Gunasena, The Clearing House
Alan Lim, Monetary Authority of Singapore
Per von Zelowitz, Federal Reserve Bank of New York Innovation Center
- 3:20 p.m.** **Blockchain, Web 3.0, Digital Identity, and the Future of Finance**
- MODERATOR:** Daniel Gorfine, Gattaca Horizons LLC and Financial Technology Association
- PANELISTS:**
Kevin Werbach, The Wharton School of the University of Pennsylvania
Richard Walker, Bain & Company
Austin Campbell, Zero Knowledge Consulting
Kaitlin Asrow, New York Department of Financial Services
John Reed Stark, John Reed Stark Consulting LLC
- 4:15 p.m.** **Break**
- 4:30 p.m.** **Building Consumers’ Trust and a Level Playing Field in the New Digital Economy**
- FEATURED SPEAKER:** Kenneth Lin, Credit Karma, Intuit Company
- MODERATOR:** Dan Quan, Nevcaut Ventures
- 4:55 p.m.** **The Future of Money and Consumer Protection**
- FEATURED SPEAKER:** J. Christopher Giancarlo, Digital Dollar Project and Former Commodity Futures Trading Commission Chair *“Assuring Values in the Digital Future of Money”*
- MODERATOR:** Chris Brummer, Georgetown University
- PANELISTS:**
Michelle W. Bowman, Board of Governors of the Federal Reserve System
Patrick Toomey, Apollo Global Management and Former U.S. Senator
Neha Narula, MIT Digital Currency Initiative
- 5:45 p.m.** **Conference Reception**
- 6:45 p.m.** **Speakers Dinner**

Day 2 – Friday, September 8

8:00 a.m. **Breakfast**

9:00 a.m. **Opening Remarks and Q&A Session**

FEATURED SPEAKER: Michael S. Barr, Board of Governors of the Federal Reserve System

MODERATOR: Sunayna Tuteja, Federal Reserve System

9:30 a.m. **Would DeFi Create Real Value in Finance? How to Measure Regulatory Compliance in DeFi**

MODERATOR: Sanjib Kalita, Guppy and Money 20/20

PANELISTS:

Linda Jeng, Crypto Council for Innovation

Hanna Halaburda, New York University Stern School of Business

Andreas Park, University of Toronto

Mark Vermeersch, Treasury Prime

Kelvin F.K. Low, National University of Singapore

10:25 a.m. **Break**

10:45 a.m. **Regulatory Perspectives: The New Market and Economic Environment**

MODERATOR: Greg Baer, Bank Policy Institute

PANELISTS:

Christy Goldsmith Romero, Commodity Futures Trading Commission

William G. Spaniel, Federal Reserve Bank of Philadelphia

Eric S. Belsky, Board of Governors of the Federal Reserve System

Andreas Lehnert, Board of Governors of the Federal Reserve System

Ashwin Vasan, Consumer Financial Protection Bureau

11:40 a.m. **Enhancing Small Business Underwriting with Better Data and More Approvals**

MODERATOR: Todd H. Baker, Columbia Business School and Columbia Law School

PANELISTS:

Luke Voiles, Pipe

Steve Allocca, Funding Circle US

Louis Caditz-Peck, The Aspen Institute and CFPB Consumer Advisory Board

Todd Denbo, Intuit

12:35 p.m. **Lunch**

Day 2 – Friday, September 8 (*continued*)

2:00 p.m. **Understanding the Dark Side of Fintech**

MODERATOR: Julapa Jagtiani, Federal Reserve Bank of Philadelphia

SPEAKERS:

Leonardo Gambacorta, Bank for International Settlements *“Fintech Benefits and Risks Overview”*

Thomas P. Vartanian, Financial Technology & Cybersecurity Center *“Fintech Exposes the Best and Worst of the Internet: So Where Do We Go from Here?”*

Andrei Kirilenko, University of Cambridge *“Lessons Learned from the Ukrainian Cyber Warriors”*

2:50 p.m. **Enhancing Cybersecurity and Financial Resilience in a Digital Banking Era**

MODERATOR: Patricia C. Mosser, Columbia University

PANELISTS:

Graham Steele, U.S. Department of the Treasury

Chris Feeney, Bank Policy Institute

Brian Heemsoth, FIS Global

Ari Redbord, TRM Labs

Katheryn Rosen, JPMorgan Chase & Co.

3:45 p.m. **Break**

4:00 p.m. **Industry Experts’ Thoughts on Potential Cloud Infrastructure Regulations**

MODERATOR: Ray Diggs, Board of Governors of the Federal Reserve System

PANELISTS:

Ron Green, Mastercard

Manish Nagar, Vanguard

C. Kelly Bissell, Microsoft

4:45 p.m. **Closing Remarks**

4:50 p.m. **Adjourn**



Alonso Alfaro Ureña

Chief Economist
Central Bank of Costa Rica

Alonso Alfaro Ureña is the chief economist at the Central Bank of Costa Rica and a professor in the Department of Economics at the Universidad de Costa Rica. He holds a B.Sc. degree in economics from the Universidad de Costa Rica and an M.A. and a Ph.D. — both in economics — from The Pennsylvania State University. His work focuses on multinationals, productivity, trade, growth, real exchange rate, and inflation expectations. He was formerly cochair at the Global Forum on Productivity (OECD).



Hilary J. Allen

Professor of Law and Associate Dean for Scholarship
American University Washington College of Law

Hilary J. Allen is a professor of law and the associate dean for scholarship at the American University Washington College of Law. She teaches courses in banking law, securities regulation, and business associations. Allen is an internationally recognized expert on financial stability regulation and new financial technologies and has been invited to share her research and expertise with organizations including the Federal Reserve Board, Securities and Exchange Commission, Commodity Futures Trading Commission, Federal Trade Commission, Financial Stability Oversight Council, International Monetary Fund, International Organization of Securities Commissions, G20, Bank for International Settlements, Financial Stability Board, Bank of England, European Systemic Risk Board, and Australian Securities and Investments Commission. She has testified before the House Financial Services Committee and the Senate Banking Committee and is the author of the book *Driverless Finance: Fintech's Impact on Financial Stability*. Allen has authored more than 20 law review articles addressing issues such as financial agency structure, the scientific/technological capacity of agencies, and financial stability threats stemming from climate change and fintech. She is regularly quoted in the press and is actively involved in presenting scholarly publications at roundtables and conferences. Allen received her Bachelor of Laws from the University of Sydney and her Master of Laws in securities and financial regulation law from Georgetown University Law Center. Allen spent seven years working in the financial services groups of prominent law firms in London, Sydney, and New York. In 2010, she worked with the Financial Crisis Inquiry Commission, which was appointed by Congress to study the causes of the financial crisis of 2007–2008.



Steve Allocca

Managing Director
Funding Circle US

Steve Allocca is the managing director of Funding Circle US, a leading online lending platform for small business borrowers that has originated \$4.3 billion in loans to 42,000 small businesses in the U.S. and \$20.2 billion in loans to 135,000 small businesses globally since 2010. Prior to joining Funding Circle, Allocca held senior positions at several of the world's leading financial institutions, including Wells Fargo, LendingClub, and Bluevine. He has an M.B.A. from Northwestern University and a B.A. in economics from Washington and Lee University.



Kaitlin Asrow

Executive Deputy Superintendent of Research and Innovation
New York Department of Financial Services

As executive deputy superintendent of research and innovation at the New York Department of Financial Services (DFS), Kaitlin Asrow is responsible for economic research, innovation policy, and virtual currency licensing and supervision. Prior to joining DFS, she was a senior policy advisor in the Federal Reserve System, specializing in fintech, data governance and management, data privacy, and artificial intelligence. She is a recognized leader in financial services innovation and policy design, with experience in entity supervision and research design. She has authored multiple papers and books on data policy, including an evaluation of data protection and data rights in the United States, and a review of open banking. Asrow has a master of public policy from the University of Chicago and a B.A. from Stanford University.



Greg Baer

President and Chief Executive Officer
Bank Policy Institute

Greg Baer is the president and chief executive officer at the Bank Policy Institute. Previously, he was president of The Clearing House Association and executive vice president and general counsel of The Clearing House Payments Company, the largest private-sector payments operator in the U.S. Prior to that, Baer was managing director and head of regulatory policy at JPMorgan Chase. He also was general counsel for corporate and regulatory law at JPMorgan Chase, supervising the company's legal work for financial reporting, global regulatory affairs, intellectual property, private equity and corporate mergers and acquisitions, and data protection and privacy. In addition, Baer was deputy general counsel for corporate law at Bank of America

and a partner and cohead of the financial institutions group at Wilmer, Cutler, Pickering, Hale & Dorr. He also was assistant secretary for financial institutions at the U.S. Department of the Treasury, after serving as deputy assistant secretary. Before working at the Treasury, Baer was managing senior counsel at the Board of Governors of the Federal Reserve System. Currently, he is an adjunct professor at Georgetown University Law Center and a member of the Economic Club of Washington. He is also on the board of Honors Carolina and was on the boards of Enterprise Community Partners, the DC College Access Program, and the Appleseed Foundation. He is the author of two books: *The Great Mutual Fund Trap* and *Life: The Odds (And How to Improve Them)*. Baer has a J.D. cum laude from Harvard Law School and was managing editor of the *Harvard Law Review*. He also has an A.B. with honors from the University of North Carolina at Chapel Hill.



Todd H. Baker

Senior Fellow

Richard Paul Richman Center for Business, Law, and Public Policy, Columbia Business School and Columbia Law School

Todd H. Baker is a senior fellow at the Richard Paul Richman Center for Business, Law, and Public Policy at Columbia Business School and Columbia Law School. He teaches an advanced fintech seminar for law and business students at Columbia and writes extensively on fintech and banking topics for academic journals and other publications, including the *Financial Times*, the *Wall Street Journal*, the *Harvard Business Review*, and *American Banker*. He is also the chair of the Board Credit Committee at Accion Opportunity Fund, the nation's leading nonprofit small business lender, and acts as an advisor to and investor in venture capital firms and a number of fintech and banking startups. From 2017 to 2019, he was a senior fellow at the Mossavar-Rahmani Center for Business and Government at Harvard Kennedy School. Before taking his academic posts, Baker had a 14-year career as the chief corporate strategy and development officer at three large domestic and international retail, commercial, and corporate banks, preceded by two decades as a San Francisco-based corporate partner with the international law firms Gibson, Dunn & Crutcher LLP and Morrison & Foerster LLP.



Michael S. Barr

Vice Chair for Supervision

Board of Governors of the Federal Reserve System

Michael S. Barr took office as the vice chair for supervision of the Board of Governors of the Federal Reserve System in 2022, for a four-year term. He also serves as a member of the Board of Governors for an unexpired term ending in 2032. Prior to his appointment to the Board, Barr was the Joan and Sanford Weill Dean of the Gerald R. Ford School of Public Policy, the Frank Murphy Collegiate Professor of Public Policy, the Roy F. and Jean Humphrey Proffitt Professor of Law at the University of Michigan Law School, and the founder and faculty

director of the University of Michigan's Center on Finance, Law & Policy. At the University of Michigan Law School, Barr taught financial regulation and international finance and cofounded the International Transactions Clinic and the Detroit Neighborhood Entrepreneurs Project. Barr served as the U.S. Department of the Treasury's assistant secretary for financial institutions, 2009–2010. Under President William J. Clinton, he served as the Treasury secretary's special assistant, deputy assistant secretary of the Treasury, special advisor to the President, and a special advisor and counselor on the policy planning staff at the U.S. Department of State. Additionally, Barr served as a law clerk to U.S. Supreme Court Justice David H. Souter and to the Honorable Pierre N. Leval of the Southern District of New York. Barr received a J.D. from Yale Law School, an M.Phil. in international relations from Oxford University, and a B.A. in history from Yale University.



Eric S. Belsky

Director, Division of Consumer and Community Affairs
Board of Governors of the Federal Reserve System

Eric S. Belsky has served as director of the Division of Consumer and Community Affairs at the Board of Governors of the Federal Reserve System since 2014. He oversees the Federal Reserve's work in consumer- and community reinvestment-focused supervision, research, outreach, and policy analysis, with the aim of promoting a fair and transparent consumer financial services marketplace and effective community development. The division also conducts research on the financial and economic conditions of low- and moderate-income individuals, households, and communities. A specialist in housing finance, economics, and policy, Belsky brings more than 25 years of experience to the division. Before joining the Board, he served as managing director of the Joint Center for Housing Studies of Harvard University. He also held the positions of director of housing finance research at Fannie Mae and senior economist at the National Association of Home Builders, and he taught at Harvard University and the University of Massachusetts Amherst. In 2001 and 2002, Belsky served as research director for the bipartisan Millennial Housing Commission established by the Congress of the United States. He has coedited five books and authored numerous articles and book chapters and has served on the editorial boards of the *Journal of Housing Research* and *Housing Policy Debate*. He holds a Ph.D., an M.A., and a B.A. from Clark University.



C. Kelly Bissell

Corporate Vice President
Microsoft

C. Kelly Bissell leads Microsoft's security incident response, compromise recovery, threat intelligence, and consulting services. He has been working to help customers stay compliant and secure for more than 30 years. At Microsoft, his goal is to use innovation, security operations, and regulation to reduce the cost and complexity

of securing companies to make the world safer and more secure. Before Microsoft, Bissell led Accenture Security and was a member of Accenture's Global Management Committee. Before Accenture, Bissell was a senior partner in Deloitte and built and led Deloitte Cyber Risk Services. He also spent 12 years in health care at McKesson. Bissell has held the role of chief information officer and chief technology officer at two different companies and the role of chief information security officer at a global bank. He is involved in several industry and technology groups and has recently authored articles in the *Wall Street Journal*, *Financial Executive*, *USA Today*, and many others. Currently, he is working with national security for several countries in the Five Eyes and NATO. Bissell is tightly aligned with several cyber and law enforcement agencies around the world.



Michelle W. Bowman

Governor

Board of Governors of the Federal Reserve System

Michelle W. Bowman has been serving as a member of the Board of Governors of the Federal Reserve System since 2018. Initially appointed to fill the remainder of an unexpired term, she was reappointed in January 2020 and sworn in for a full 14-year term ending in 2034. Prior to her Board appointment, Bowman served as the state bank commissioner of Kansas from January 2017 to November 2018, before which she was vice president of Farmers & Drovers Bank in Kansas from 2010 to 2017. Additional past experience includes service in Washington, D.C., in the office of Senator Bob Dole of Kansas, as a counsel to the U.S. House Committee on Transportation and Infrastructure and the Committee on Government Reform and Oversight, as a director at the Federal Emergency Management Agency, and in the capacity of deputy assistant secretary and policy advisor to Homeland Security Secretary Tom Ridge. Following her time in Washington, Bowman led a government and public affairs consultancy in London before returning to Kansas in 2010. She has a law degree from the Washburn University School of Law and a bachelor's degree from the University of Kansas. Bowman is a member of the New York State Bar.



Carlos Brandt (Carlos Eduardo de Andrade Brandt Silva)

Head of Pix Management and Operation

Central Bank of Brazil

Carlos Brandt is the head of management and operation of Pix, the Central Bank of Brazil's instant electronic payment system. He graduated with degrees in engineering and law, specialized in finance and law, led the Pix design and implementation process in Brazil, and is currently leading and driving Pix's evolving agenda with new features and products. He coordinates the Pix Forum, a permanent advisory committee for new products and the improvement of existing ones. Brandt was nominated for the Bloomberg 50 list in 2021 — a list of people and ideas that defined global business in 2021 — which is a recognition of achievements with Pix for the entire Central Bank of Brazil team.



Brian Brooks

Partner
Valor Capital Group

Brian Brooks is a partner at Valor Capital Group and is a leader in financial services, fintech, and crypto policy. He served as acting U.S. Comptroller of the Currency during the first year of the COVID-19 pandemic, and he served as a board member of the Federal Deposit Insurance Corporation and as a voting member of the Financial Stability Oversight Council. He also served as CEO of two crypto companies and was previously the chief legal officer of Coinbase, the general counsel of Fannie Mae, and the vice chairman of OneWest Bank (formerly known as IndyMac Bank). He has been a board member of numerous music organizations, including the LA Opera and the National Symphony Orchestra. He is an honors graduate of Harvard University and the University of Chicago Law School.



Chris Brummer

Agnes N. Williams Research Professor, Faculty Director
Institute of International Economic Law, Georgetown University

Chris Brummer is a Georgetown University law professor and author. He lectures widely on financial inclusion and equity, financial regulation, and global governance. Brummer started his career at Cravath, Swaine & Moore LLP, and he now serves as the faculty director of the Institute of International Economic Law. For more than a decade, he has lent his expertise to industry leaders, nonprofits, and policymakers, offering his insights to help firms and governments best understand and react to new developments and challenges in the financial system. He is also the author/editor of several books, including *Soft Law and the Global Financial System*; *Cryptoassets: Legal, Regulatory, and Monetary Perspectives*; and *Fintech Law in a Nutshell*. Brummer is the host of the CQ Roll Call's Fintech Beat podcast and the founder of Fintech Week, an annual free event in Washington, D.C., for the public. He has multiple degrees, including a Ph.D. from the University of Chicago and a J.D. with honors from Columbia Law School.



Louis Caditz-Peck

Senior Fellow
The Aspen Institute

Louis Caditz-Peck is a senior fellow at the Aspen Institute, focusing on the role of business ownership as a pathway of economic opportunity. He is also a senior fellow at the National Community Reinvestment Coalition, an association of more than 600 community-based organizations that promotes access to financial services to

create and sustain affordable and vibrant communities for America's working families. Caditz-Peck also serves as an appointed member of the Consumer Financial Protection Bureau's Consumer Advisory Board. He was previously senior director of public policy at LendingClub, a leading digital bank, where he worked to help consumers save billions of dollars by refinancing expensive credit card and auto loans into lower rates. Caditz-Peck joined LendingClub in 2013 to launch its small business lending program, drawing on his background at the community development financial institution (CDFI) Self-Help. LendingClub's program has served over 10,000 small businesses, seen five times the representation of minority-owned firms when compared to conventional bank lending, and grown into an award-winning fintech/CDFI partnership with Accion Opportunity Fund. In response to the rise of predatory small business lending, Caditz-Peck brought together fintech, advocacy, and CDFI allies to cofound the Responsible Business Lending Coalition. The coalition has generated a wave of new small business financial protection laws across the country based on its Small Business Borrowers' Bill of Rights. He also cofounded the American Fintech Council and the Marketplace Lending Association to support pro-consumer innovation in fintech. Caditz-Peck serves on the boards of the Woodstock Institute and the California Association for Micro Enterprise Opportunity. He has a bachelor's degree from Wesleyan University and attended the M.B.A. program at the University of California, Berkeley.



Austin Campbell

Managing Partner and Founder
Zero Knowledge Consulting

Austin Campbell is the managing partner and founder of Zero Knowledge Consulting and an adjunct professor at Columbia Business School. Previously, he ran the stablecoin platform and portfolio management at Paxos and was the chief risk officer of Paxos National Trust. He also managed fixed income trading desks at JPMorgan Chase and Citibank and was a portfolio manager and structurer at Stone Ridge Asset Management, the parent of NYDIG. He has an M.B.A. from NYU Stern and a B.S. in mathematics from California State University, Chico.



Christian Catalini

Cofounder and Chief Strategy Officer
Lightspark

Christian Catalini is the cofounder and chief strategy officer of Lightspark. He is also the founder of the MIT Cryptoeconomics Lab and a research scientist at MIT. Previously, he was a cocreator of Diem (formerly Libra), chief economist of the Diem Association, and head economist of Meta FinTech. While a professor at MIT, Catalini designed the MIT Digital Currency Research Study. In 2018, he was appointed as a faculty research fellow in the Productivity, Innovation and Entrepreneurship Program at the National Bureau of Economic

Research. His academic research focuses on blockchain technology and cryptocurrencies, and he previously worked on the economics of equity crowdfunding and startup growth and the economics of scientific collaboration. Catalini's research has been featured in *Nature*, *Science*, the *New York Times*, the *Wall Street Journal*, *The Economist*, *WIRED*, *Forbes*, *Bloomberg*, *TechCrunch*, the *Chicago Tribune*, the *Boston Globe*, *VICE News*, and the *Washington Post*, among others. He has presented his work at a variety of institutions, including Harvard University; MIT; Yale University; London Business School; New York University; University of California, Berkeley; Stanford University; the U.S. Department of the Treasury; the U.S. Securities and Exchange Commission; the Commodity Futures Trading Commission; the World Bank; the International Monetary Fund; the White House Office of Science and Technology Policy; and a number of central banks and regulators. He has a Ph.D. from the University of Toronto (Rotman School of Management) and an M.Sc. summa cum laude in economics and management of new technologies from Bocconi University.



Rohit Chopra

Director

Consumer Financial Protection Bureau

Rohit Chopra is director of the Consumer Financial Protection Bureau (CFPB), a unit of the Federal Reserve System charged with protecting families and businesses from illegal practices by financial institutions and ensuring that markets for consumer financial products and services are fair, transparent, and competitive. In this role, Chopra is a member of the board of directors of the Federal Deposit Insurance Corporation and the Financial Stability Oversight Council. In 2018, he was unanimously confirmed by the U.S. Senate as a commissioner on the Federal Trade Commission (FTC), where he served until assuming office as CFPB director. During his tenure at the FTC, he worked to strengthen sanctions against repeat offenders; to reverse the agency's reliance on no-money, no-fault settlements in fraud cases; and to halt abuses of small businesses. He also led efforts to revitalize dormant authorities, such as those to protect the Made in USA label and to promote competition. He previously was at the CFPB from 2010 to 2015. In 2011, the secretary of the Treasury designated him as the agency's student loan ombudsman to lead the CFPB's efforts on student lending issues. Prior to his government service, he worked at McKinsey & Company, the global management consultancy in the financial services, health care, and consumer technology sectors. Chopra has an M.B.A. from the Wharton School of the University of Pennsylvania and a B.A. from Harvard University.



Martin Chorzempa

Senior Fellow

Peterson Institute for International Economics

Martin Chorzempa joined the Peterson Institute for International Economics as a research fellow in 2017 and has been a senior fellow since January 2021. As a Fulbright scholar in Germany and a Luce scholar at Peking University's China Center for Economic Research, he worked on comparative financial regulation, China's financial reforms, and the rise of innovative financial technology in China. He also worked for the China Finance 40 Forum in Beijing, a leading independent think tank. Chorzempa's research focuses on financial technology and digital currency, as well as technology and national security issues such as export controls and foreign investment screening. He is the author of *The Cashless Revolution: China's Reinvention of Money*, which the *Financial Times* named one of the best economics books of 2022. He is regularly quoted by major media outlets such as the *Wall Street Journal*, the *New York Times*, the *Washington Post*, the *Financial Times*, *MIT Technology Review*, and *Foreign Affairs*. He has a master's in public administration in international development from the Harvard Kennedy School.



Todd Denbo

Vice President and Commercial Leader

Intuit QuickBooks Money Portfolio

Todd Denbo has 25 years of experience driving innovation and growth for consumers and small businesses within financial services, including auto lending, credit cards, consumer lines and loans, investment secured loans, deposits, and marketing. He now serves as vice president and commercial leader for the Intuit QuickBooks Money Portfolio, which includes QuickBooks' lending, payments, and banking products. He also serves as CEO of Intuit Financing Inc., which facilitates direct loans to QuickBooks customers. Denbo's experience in the industry, including leadership roles at LendingClub, have gained him recognition in the industry as an expert on all things lending. He has gotten media coverage in outlets such as *Forbes* and *Yahoo!* and spoken at leadership and industry events.



Stephen Diehl

Chief Technology Officer
ZeroLink Inc.

Stephen Diehl is a software engineer and writer based in London. He runs the Center for Emerging Tech Policy, a nonprofit organization based in the UK. He also serves as chief technology officer at ZeroLink Inc., focusing on regulatory technology solutions. His domain software engineering expertise has been in financial infrastructure and back-office solutions for compliance. Diehl has also written extensively on issues related to the public policy concerns related to crypto assets and blockchain technologies, as well as the financial market and regulatory implications of those becoming mainstream in finance.



Ray Diggs

Deputy Associate Director, Division of Supervision and Regulation
Board of Governors of the Federal Reserve System

Ray Diggs is the deputy associate director for the Operational Risk function in the Cross Portfolio Group of the Division of Supervision and Regulation at the Board of Governors of the Federal Reserve System. Diggs oversees the Business Technology Risk section, which develops and coordinates an integrated supervisory program for operational risk, develops and coordinates an operational risk training program, and oversees incident response within the System. He also is responsible for the Service Provider Oversight section, which participates in and oversees the supervision of technology service providers that provide technology services to regulated client financial institutions. Prior to joining the Board in May 2013, Diggs served as the Group Leader for Credit and Market Risk at the Office of the Comptroller of the Currency (OCC). There, he served as the head of the unit in charge of capital markets policy. Diggs spent 26 years at the OCC as a field examiner and district lead capital markets expert and in the development of capital markets policy. Diggs also participated in numerous interagency and international policy development groups, including the Basel working group on liquidity. Diggs has a B.B.A. from Howard University and an M.B.A. from the Robert H. Smith School of Business at the University of Maryland.



Dante Disparte

Chief Strategy Officer and Head of Global Policy
Circle

Dante Disparte is chief strategy officer and head of global policy at Circle, responsible for overseeing company strategy, communications, policy, and public affairs. Since joining Circle, his leadership in driving market expansion, regulatory engagement, and more has been integral in furthering the company's mission to raise

global economic prosperity through the frictionless exchange of financial value. Prior to Circle, Disparte was a founding executive of Diem Association, leading policy, communications, membership, and social impact. He also brings two decades of experience as an entrepreneur, business leader, and global risk expert, most recently as founder and chief executive officer of Risk Cooperative. He was also an appointee to the Federal Emergency Management Agency's National Advisory Council. Currently, he is a member of the World Economic Forum's Digital Currency Governance Consortium and a life member of the Council on Foreign Relations. In addition, he is coauthor of *Global Risk Agility and Decision Making*. He is a graduate of the Program for Leadership Development at Harvard Business School and has an M.Sc. in risk management from the NYU Stern School of Business and a bachelor's degree from Goucher College.



Chris Feeney

Executive Vice President
Bank Policy Institute

Chris Feeney is an executive vice president at the Bank Policy Institute (BPI) and president of BITS, the technology policy division of BPI. Feeney collaborates with the nation's largest financial institutions, the administration, regulators, and policymakers to promote effective cybersecurity, resilience, critical infrastructure, and operating practices and to develop and shape the industry's use of emerging technologies. He has experience in executive management, technology and technology policy, security, business/sales management, and operating roles at software companies, banks, and investment management firms. His background includes strategic advisory work on behalf of boards, CEOs, and leadership teams; he also served as managing director and chief information officer at LPL Financial and Bank of America. Over his career, Feeney has led numerous product, technology, and governance transformations. He has also served as CEO, president, and in executive management roles at Thomson Financial, Telerate, Multex, and Broadridge Financial. Feeney is the former vice chair of the Financial Services Sector Coordinating Council and a current member of their Management Committee, a board and operating management member of fTLD Registry Services, a board and Executive Committee member of Sheltered Harbor, and a board member of the Cyber Risk Institute. He was also board director at Scottrade, Inc., and Scottrade Bank, where he was the Risk Committee chair and a Technology Committee member. Feeney is a member of the National Association of Corporate Directors (NACD) and is Director Certified (DC) and a Governance fellow.



Leonardo Gambacorta

Head, Innovation and the Digital Economy
Bank for International Settlements

Leonardo Gambacorta is the head of the Innovation and the Digital Economy unit at the Bank for International Settlements. Before taking his current position, he was research advisor (from 2014 to 2018) and head of monetary policy (from 2010 to 2012) in the monetary and economic department. Previously, he was head of the Money and Credit unit (from 2007 to 2009) and head of the Banking Sector unit (from 2004 to 2006) of the research department of the Bank of Italy. He was also a visiting scholar at the National Bureau of Economic Research (from 2002 to 2003). Gambacorta's main interests include monetary transmission mechanisms, the effectiveness of macroprudential policies in curbing systemic risk, and the effects of technological innovation on financial intermediation. He is a research fellow of the Centre for Economic Policy Research, and he has a Ph.D. in economics from the University of Pavia and an M.Sc. in economics from the University of Warwick.



J. Christopher Giancarlo

Cofounder and Executive Chairman
Digital Dollar Project

J. Christopher Giancarlo is cofounder and executive chairman of the Digital Dollar Project, a partnership between Accenture and the Digital Dollar Foundation, a not-for-profit initiative to advance exploration of a United States central bank digital currency. Giancarlo served as 13th chairman of the United States Commodity Futures Trading Commission (CFTC) from 2014 to 2019. Under his administration, the CFTC oversaw the launch of the first bitcoin futures contracts, created LabCFTC, published primers on virtual currencies and smart contracts, and entered into fintech cooperation agreements with several overseas regulators. As CFTC chairman, Giancarlo served as a member of the U.S. Financial Stability Oversight Committee, the President's Working Group on Financial Markets, and the Executive Board of the International Organization of Securities Commissions. Giancarlo is also senior counsel to the international law firm Willkie Farr & Gallagher, a board director and independent advisor to several financial service and technology companies, and an independent director of Nasdaq Digital Holdings and Digital Asset Holdings. Before entering public service, Giancarlo served as executive vice president of financial services firm GFI Group Inc. and as executive vice president and U.S. counsel of Fenics Software and practiced law in New York and London. Giancarlo received his J.D. from Vanderbilt University School of Law and graduated with a B.A. from Skidmore College. Giancarlo is a member of the bar of the State of New York.



Christy Goldsmith Romero

Commissioner
Commodity Futures Trading Commission

Christy Goldsmith Romero was sworn in as a Commodity Futures Trading Commission (CFTC) commissioner in March 2022. Prior to becoming a CFTC commissioner, Goldsmith Romero served for a decade as the special inspector general for the Troubled Asset Relief Program (TARP). In that role, she led a nationwide federal law enforcement agency and watchdog over TARP, a program where the U.S. government became a shareholder in banks, the automotive industry, and the insurance industry; owned, exchanged, and traded in corporate securities and derivatives; and administered foreclosure relief for consumers. Goldsmith Romero also served on the staff at the U.S. Securities and Exchange Commission and on its executive staff during the financial crisis and was senior counsel in the SEC's Enforcement Division, where she investigated securities law violations. Prior to her service at the SEC, Goldsmith Romero was an associate and counsel at law firms and served a federal judicial clerkship. Goldsmith Romero has written extensively on issues related to the financial system, including systemic risk, the interconnected nature of the financial system, too-big-to-fail, capital, lending, and market issues. Her work and publications have received substantial media coverage by ABC, NBC, *USA Today*, the Associated Press, the *Wall Street Journal*, the *New York Times*, the *Financial Times*, Reuters, *Forbes*, *Bloomberg*, the *Washington Post*, the *Washington Examiner*, *Politico*, CNBC, Fox News, CNN, MSNBC, *American Banker*, NPR, and many other local and trade news outlets.



Daniel Gorfine

Founder, Gattaca Horizons LLC
and *Senior Policy Advisor, Financial Technology Association*

Daniel Gorfine is the founder of Gattaca Horizons LLC, a boutique fintech advisory firm, and is a senior policy advisor to the Financial Technology Association. He is also an adjunct professor of law at the Georgetown University Law Center and a cofounder of the nonprofit Digital Dollar Project. Previously, he was the U.S. Commodity Futures Trading Commission's first chief innovation officer and director of LabCFTC. Before that, Gorfine was vice president of external affairs and associate general counsel at OnDeck. He also was director of financial markets policy and legal counsel at the Milken Institute think tank, worked at the international law firm Covington & Burling LLP earlier in his career, and served a clerkship with U.S. District Court Judge Catherine C. Blake in the District of Maryland. Gorfine has a J.D. from George Washington University Law School, an M.A. from the Paul H. Nitze School for Advanced International Studies (SAIS) at Johns Hopkins University, and an A.B. from Brown University.



Ron Green

Chief Security Officer
Mastercard

Ron Green is the chief security officer for Mastercard, where he leads a global team that ensures the safety and security of the company's network, as well as its internal and external products and services. He is responsible for corporate security, security architecture and engineering, cryptographic key management, business continuity, disaster recovery, and emergency management. Green is a member of the company's management committee. He joined Mastercard in 2014 after serving as deputy chief information security officer at Fidelity Information Services. Prior to this position, he was the director of investigation and protections operations at Blackberry, and he also served as a senior vice president across several areas at Bank of America. Green has extensive experience working with international and federal law enforcement agencies, both as a special agent in the U.S. Secret Service and as an officer in the U.S. Army. During his time with the Secret Service, he worked on protection and fraud investigations. He was one of the first agents to receive formal training on seizing and analyzing electronic evidence and worked on a number of international cyber-crime investigations. Green serves on the board of directors for SailPoint Technologies, chairs the Financial Services Sector Coordinating Council, is vice chair of the Cybersecurity and Infrastructure Security Agency's Cybersecurity Advisory Committee, and is chair of the U.S. Secret Service's Cyber Investigation Advisory Board. He has a bachelor's degree in mechanical engineering from the United States Military Academy at West Point, is a graduate of the FBI's Domestic Security Executive Academy, and has a graduate certification in information assurance from George Washington University.



Michael B. Greenwald

Senior Executive and Global Lead of Digital Assets and Financial Innovation
Amazon Web Services

Michael B. Greenwald is a senior executive at Amazon Web Services (AWS), serving as the global lead for digital assets and financial innovation. In this role, he leads U.S. and global strategy on integrating AWS cloud and public sector blockchain into the future of money. In 2023, Greenwald was appointed by the U.S. Commodity Futures Trading Commission to serve as a representative member on its Technology Advisory Committee. Prior to Amazon, he spent almost a decade of his life in the public sector working for the U.S. Department of the Treasury, culminating with his position as the first and most senior Treasury diplomat to Qatar and Kuwait. After departing the Treasury, he helped lead the domestic and international growth of Tiedemann Advisors and served as its director for digital asset education. Greenwald is an adjunct associate professor at Columbia University School of International and Public Affairs, a senior fellow at the Atlantic Council GeoEconomics Center, and an adjunct senior fellow at the Center for New American Security. He has been featured by the *Wall Street Journal*, the *New York Times*, *Barron's*, the *Financial Times*, and the Associated Press, and he has been a guest commentator on CNBC. He holds a J.D. from Boston University, a master's degree from Boston University's Frederick S. Pardee School of Global Studies, and a B.A. in history from George Washington University.



Paul Grewal

Chief Legal Officer
Coinbase Global, Inc.

Paul Grewal is the chief legal officer of Coinbase Global, Inc., where he is responsible for Coinbase's legal, compliance, global intelligence, risk management, and government relations groups. Before joining Coinbase, Grewal was vice president and deputy general counsel at Facebook. Before Facebook, he served as U.S. Magistrate Judge for the Northern District of California. He was previously a partner at Howrey LLP and was a law clerk to Federal Circuit Judge Arthur J. Gajarsa and U.S. District Judge Sam H. Bell. He has a J.D. from the University of Chicago Law School and a B.S. in civil and environmental engineering from the Massachusetts Institute of Technology.



Rusiru Gunasena

Vice President, RTP Product and Strategy
The Clearing House

Rusiru Gunasena leads the product management and strategy team for The Clearing House's RTP network. In this role, Gunasena oversees the ongoing growth of the RTP network, a modern platform for real-time payments that connects banks, credit unions, and fintech customers for the movement of money with immediate payment confirmation. He is a payments and fintech leader with more than 20 years of experience across multiple industries. He is a strong advocate for digital payment innovation and continues to influence the U.S. payment ecosystem by participating in various industry workgroups and committees. Gunasena has experience as an entrepreneur and a diverse leader involved in startup ventures and Fortune 100 companies worldwide across multiple industries. Prior to joining The Clearing House, he was the managing director of JHA PayCenter, responsible for leading Jack Henry's Faster Payments strategy and building a central payment hub for fintechs and financial institutions. He has an M.B.A. from the University of Louisville with an entrepreneurship concentration and a bachelor's degree in accounting and finance from the University of Essex, where he was an honors recipient.



Hanna Halaburda

Associate Professor of Technology, Operations, and Statistics
New York University Stern School of Business

Hanna Halaburda is an associate professor of technology, operations, and statistics at the New York University Stern School of Business, where she has been a faculty member since 2019. Prior to joining NYU Stern, Halaburda was an assistant professor at Harvard Business School and a senior economist at the Bank of Canada. Her work has helped to shape our understanding of the adoption, market efficiency, and regulation

of blockchain and cryptocurrencies. Halaburda's research has been published in top-tier academic journals. In 2015, she coauthored *Beyond Bitcoin: The Economics of Digital Currency*, the first book analyzing digital currencies from the economic perspective. The book's 2nd edition, coauthored with Miklos Sarvary and Guillaume Haeringer, was published in 2022. Halaburda has held various leadership positions in the academic and professional communities, including serving on conference organizing committees and journal editorial boards, such as *Management Science* and *MISQ*. In addition to her academic work, she is a frequent speaker at industry conferences and has advised numerous companies and organizations on blockchain- and cryptocurrency-related issues.



Patrick T. Harker

President and Chief Executive Officer
Federal Reserve Bank of Philadelphia

Patrick T. Harker took office on July 1, 2015, as the 11th president and chief executive officer of the Federal Reserve Bank of Philadelphia. He was reappointed for his second five-year term effective March 1, 2021. In this role, Harker participates on the Federal Open Market Committee, which formulates the nation's monetary policy. As an engineer by training, Harker has continued to apply his research and receive patents throughout his career. He considers the effect of automation on the labor force as "the perfect intersection" of engineering and economics. Other technological influences, including artificial intelligence and machine learning, are also playing a part in the Third District's and the nation's economy. By focusing on economic mobility, one of the Bank's research priorities, the Bank's researchers are looking for ways to create sustained, inclusive growth through practical applications. Targeting such research to the employment field can help workers, communities, and industries plan for inevitable disruptions by connecting workers to training programs while encouraging discussions on the skills that are vital to a constantly changing market.

Before taking office at the Philadelphia Fed, Harker was the 26th president of the University of Delaware. He was also a professor of business administration at the university's Alfred Lerner College of Business and Economics and a professor of civil and environmental engineering at the College of Engineering. Before joining the University of Delaware in 2007, Harker was dean and Reliance Professor of Management and Private Enterprise at the Wharton School of the University of Pennsylvania. Prior to being appointed dean in 2000, Harker was the Wharton School's interim dean and deputy dean as well as the chair of its Operations and Information Management Department. In 1991, he was the youngest faculty member in Wharton's history to be awarded an endowed professorship as UPS Transportation Professor of the Private Sector. He has published/edited nine books and more than 100 professional articles. From 1996 to 1999, he was editor-in-chief of the journal *Operations Research*.

In 2012, Harker was named a fellow of the Institute for Operations Research and the Management Sciences (INFORMS) and a charter fellow of the National Academy of Inventors. He was also named a White House fellow by President George H. W. Bush in 1991 and was a special assistant to FBI Director William S. Sessions from 1991 to 1992. Harker is a board member of both the Chamber of Commerce for Greater Philadelphia and its Select Greater Philadelphia Council. He is also a board member at the Science Center in Philadelphia. Previously, he

was on the boards of Catholic Relief Services, Pepco Holdings, Inc., and Huntsman Corporation and was a founding member of the board of advisors for Decision Lens, Inc. He was also a nonbanking Class B director of the Philadelphia Fed from 2012 to 2015. Harker has a Ph.D. in civil and urban engineering, an M.A. in economics, and an M.S.E. and B.S.E. in civil engineering, all from the University of Pennsylvania.



Brian Heemsoth

Executive Vice President and Chief Information Security Officer
FIS Global

Brian Heemsoth is the executive vice president and chief information security officer for FIS Global. In this role, he is responsible for the strategy and execution of the company's cybersecurity risk management programs. Prior to joining FIS, Heemsoth served as the executive vice president and head of cyber defense at Wells Fargo, leading the bank's efforts to reduce exposure to cyber risk. Heemsoth has also served as the head of cyber defense at CVS Health and held several cybersecurity leadership roles at Aetna. Heemsoth has a bachelor's degree in computer information systems from Bentley College.



Richard Herring

Jacob Safra Professor of Banking
The Wharton School of the University of Pennsylvania

Richard Herring is the Jacob Safra Professor of Banking at the Wharton School of the University of Pennsylvania, director of the Wharton Financial Institutions Center, and a professor of finance at the Wharton School, where he has been a member of the faculty since 1972. He was vice dean and director of the Wharton Undergraduate Division and director of the Lauder Institute. Outside the university, he was cochair of the U.S. Shadow Financial Regulatory Committee and executive director of the Financial Economists Roundtable. He is a member of the FDIC Systemic Resolution Advisory Committee and the Systemic Risk Council. Herring is also the author of more than 150 articles, monographs, and books on various topics in financial regulation, international banking, and international finance. His research has been funded by grants from the National Science Foundation, the Ford Foundation, the Brookings Institution, the Sloan Foundation, the Council on Foreign Relations, and the Royal Swedish Commission on Productivity. Herring has a doctorate and a master's degree from Princeton University and a bachelor's degree from Oberlin College.



Julapa Jagtiani

Senior Economic Advisor and Economist
Federal Reserve Bank of Philadelphia

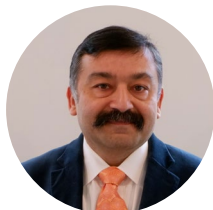
Julapa Jagtiani is a senior economic advisor and economist at the Federal Reserve Bank of Philadelphia, a fellow member of the Wharton Financial Institutions Center, and a Central Bank Research fellow at the Bank for International Settlements. At the Federal Reserve, Jagtiani has participated in several supervisory policy projects and published her research articles in top finance and economics journals. Her most recent research focuses on the roles of alternative data and fintech partnership in expanding credit access to underserved consumers and small businesses. Jagtiani has a Ph.D. in finance and an M.B.A. from the NYU Stern School of Business, where she held the Rockefeller Foundation Fellowship.



Linda Jeng

Chief Global Regulatory Officer and General Counsel
Crypto Council for Innovation

Linda Jeng is the chief global regulatory officer and general counsel for the Crypto Council for Innovation. She is also a visiting scholar on financial technology and adjunct professor of law at Georgetown University Law Center's Institute of International Economic Law and a senior lecturing fellow at Duke Law School. Her research interests include open banking, digital currency, and decentralized finance. She has spent most of her career working on financial stability and regulatory reform, including at the Financial Stability Board in Basel, Switzerland, drafting global standards addressing too-big-to-fail; the U.S. Senate drafting the Dodd-Frank Act; and the U.S. Department of the Treasury negotiating the international implementation of G20 post-crisis reforms. She also worked at the Securities and Exchange Commission, the Office of the Comptroller of the Currency, and Credit Agricole in Paris. She was chief policy and regulatory officer for the Centre Consortium, the standards organization for Centre Standard Stablecoins, and global head of policy at Transparent Financial Systems. She also served as chief of staff for Risk, Data, and Surveillance at the Board of Governors of the Federal Reserve System, where she chaired the Basel Committee on Banking Supervision's working group on open banking. She has a J.D. from Columbia Law School; a master of advanced studies from the University of Toulouse, France; and a B.A. from Duke University.



Sanjib Kalita

Founder and Chief Executive Officer
Guppy

Sanjib Kalita has built and launched over 20 products and businesses in his career. He is the founder and chief executive officer of Guppy, a fintech startup focused on self-sovereign credit data. He is also the wizard and former chief marketing officer at Money 20/20, a fintech conference that he helped grow from startup to exit. He worked for Citi, managing the world's largest credit card portfolios; Google, creating partnerships for Google Wallet; and Intel, launching their graphics chip business. Kalita has an M.B.A. from the Kellogg School of Management as well as a bachelor's degree and a master's degree, both in electrical engineering, from Cornell University.



Andrei Kirilenko

Professor of Finance
Cambridge Judge Business School, University of Cambridge

Andrei Kirilenko is a professor of finance at the Cambridge Judge Business School at the University of Cambridge. His scholarly work lies in the intersection of finance, technology, and regulation. Prior to joining the Cambridge Judge Business School, he was the director of the Centre for Global Finance and Technology at the Imperial College Business School. Before that, he was a professor of the practice of finance at MIT Sloan and codirector of the MIT Center for Finance and Policy. Prior to MIT, Kirilenko was chief economist of the U.S. Commodity Futures Trading Commission (CFTC), where he used modern analytical tools and methods to design and enforce an effective regulatory regime of financial markets. Before the CFTC, he was at the International Monetary Fund working on financial crises around the world. He has a Ph.D. in economics from the University of Pennsylvania, with a specialization in finance from the Wharton School of the University of Pennsylvania.



Aaron Klein

Senior Fellow in Economic Studies
The Brookings Institution

Aaron Klein is a senior fellow in economic studies at the Brookings Institution, where he also is policy director of the Center on Regulation and Markets. He focuses on financial regulation and technology, payments, macroeconomics, and infrastructure finance and policy. He regularly publishes, speaks, and comments on these issues. Previously, Klein directed the Financial Regulatory Reform Initiative at the Bipartisan Policy Center (BPC) and helped the BPC launch its Executive Council on Infrastructure. Previously, Klein had a career in government; he was deputy assistant secretary for economic policy at the U.S. Department of the Treasury. At the Treasury,

he worked on financial regulatory reform and housing finance reform; directed its transportation, infrastructure policy, and Native American policies; and received the department's Distinguished Service Award. Prior to joining the Treasury, he was chief economist of the Senate Banking, Housing, and Urban Affairs Committee for Chairmen Chris Dodd (D-CT) and Paul Sarbanes (D-MD). While working in the Senate, he played a key role in a series of major legislations, including the Economic Emergency Stabilization Act of 2008 (better known as TARP), the Housing and Economic Recovery Act of 2008, the SAFETEA Act of 2005 that rewrote America's surface transportation policy, the Check Truncation Act of 2003, the Terrorism Risk Insurance Act of 2002, and the Sarbanes-Oxley Act of 2002. He is a graduate of Dartmouth College with high honors and of Princeton University's Woodrow Wilson School of Public Affairs.



Andreas Lehnert

Director, Division of Financial Stability
Board of Governors of the Federal Reserve System

Andreas Lehnert is the director of the Division of Financial Stability at the Federal Reserve Board in Washington, D.C. Lehnert joined the Fed after earning his Ph.D. in economics from the University of Chicago. He started in the household finance research group, where he worked on a variety of topics in consumer and mortgage credit, including consumer bankruptcy and foreclosure. During the 2007–2009 financial crisis, he contributed to several projects, including various mortgage modification initiatives, the Troubled Assets Relief Program, the 2009 bank stress tests, and the Term Asset-Backed Securities Loan Facility. In November 2010, he moved to the Board's newly created financial stability group, and in December 2016, he was appointed director. The division oversees the Fed's periodic assessment of financial stability, including publishing the *Financial Stability Report* two times a year; supports policymaking to enhance financial stability, including the countercyclical capital buffer and the scenarios used in the Board's periodic stress tests; and manages the Board staff response to stress events, including the set of 13(3) facilities deployed following the March 2020 onset of the pandemic. The division also supports the Federal Reserve's role on the Financial Stability Oversight Council and the Financial Stability Board. Lehnert's research focuses on financial stability, macroprudential policy, banking, and finance.



Alan Lim

Head, FinTech Infrastructure Office
Monetary Authority of Singapore

Alan Lim is the head of the FinTech Infrastructure Office at the Monetary Authority of Singapore (MAS) and is responsible for developing Singapore's digital financial infrastructure. He leads the development of strategies to drive digital transformation across the financial industry, and he spearheads innovation acceleration programs to foster responsible innovation through the MAS FinTech Regulatory Sandbox. Lim fosters the development of

regulatory technologies and the establishment of platforms for open finance. He oversees research initiatives to examine solutions to improve wholesale cross-border multi-currency payments and settlements. Previously, Lim held various leadership roles in the private sector, including managing consulting and development teams across Asia-Pacific. He is a coauthor of patents in distributed networks. He has a bachelor's degree with honors in electrical engineering from the National University of Singapore and is a Singapore University of Social Sciences fellow in fintech and innovation.



Kenneth Lin

Chief Executive Officer and Founder
Credit Karma, Intuit Company

Kenneth Lin started Credit Karma in 2007 to offer free credit scores and bring transparency and simplicity to the credit industry — an industry built around and prioritizing banks, not consumers. Today, Credit Karma serves nearly 130 million members in the U.S., the UK, and Canada. It continues to use technology to bridge the gap between consumers and financial services by consistently rolling out free, consumer-first tools designed to help members manage their full financial lives and to provide certainty in a world of financial uncertainty. He has led the company from a small team of three to more than 1,500 employees who are disrupting consumer finance and serving millions of people. He also founded Multilytics Marketing in 2006 and has a B.A. in mathematics and economics from Boston University. He was selected to join the esteemed Aspen Institute's Henry Crown fellows in 2018.



Kelvin F.K. Low

Professor
National University of Singapore

Kelvin F.K. Low is a professor of law at the National University of Singapore. He has also taught at the University of Hong Kong, Singapore Management University, and the City University of Hong Kong. His research interest spans the field of private law, with a particular interest in property, broadly defined, including (in recent years) cryptoassets and blockchain. He has published internationally in leading journals, such as the *American Journal of Comparative Law*, the *International & Comparative Law Quarterly*, *Legal Studies*, *Lloyd's Maritime and Commercial Law Quarterly*, the *Law Quarterly Review*, the *Melbourne University Law Review*, and *The Modern Law Review*. He is a coauthor (with Michael Bridge, Louise Gullifer, and Gerard McMeel) of the 2nd and 3rd editions of *The Law of Personal Property* and coauthor (with Tang Hang Wu) of the 3rd and 4th editions of *Tan Sook Yee's Principles of Singapore Land Law*. His works have been cited by courts in Australia, Canada, England and Wales, Hong Kong SAR, Malaysia, New Zealand, and Singapore, as well as by law commissions and law reform bodies in Australia, England and Wales, Ireland, New Zealand, Scotland, and Singapore. He is an international expert

on cryptoassets and blockchain technology as it interfaces with the law and has advised the Law Commission of England and Wales, Ofcom, the International Organization of Securities Commissions (IOSCO), the Japan Institute of Business Law, the Singapore Judicial College, and the Monetary Authority of Singapore, among others. He studied law at the National University of Singapore and Oxford University.



Antoine Martin

*Financial Research Advisor, Financial Stability Policy Research Division
Federal Reserve Bank of New York*

Antoine Martin is a financial research advisor in the Financial Stability Policy Research Division at the Federal Reserve Bank of New York. His recent research and policy work has focused on short-term money markets, monetary policy implementation, and payments, including digital currencies. He has published in a number of scholarly journals, including the *Journal of Finance*; *Review of Financial Studies*; *Brookings Papers on Economic Activity*; *Journal of Monetary Economics*; and *Journal of Money, Credit, and Banking*. Martin holds a Ph.D. in economics from the University of Minnesota and a B.A. in economics from the University of Lausanne.



Timothy Massad

*Research Fellow, Mossavar-Rahmani Center for Business and Government
Harvard University*

Timothy Massad is a research fellow at the Mossavar-Rahmani Center for Business and Government at the Kennedy School of Government at Harvard University and the director of the center's new Digital Assets Policy Project. He is also a nonresident scholar at the Brookings Institution and a consultant on financial regulatory and fintech issues. Massad served as chairman of the U.S. Commodity Futures Trading Commission from 2014 to 2017. Under his leadership, the agency implemented the Dodd-Frank reforms of the over-the-counter swaps market; harmonized many aspects of cross-border regulation, including reaching a landmark agreement with the European Union on clearinghouse oversight; declared bitcoin and virtual currencies to be commodities; and enhanced cybersecurity protections. Previously, Massad served as the assistant secretary for financial stability for the U.S. Department of the Treasury. In that capacity, he oversaw the Troubled Asset Relief Program, the principal U.S. governmental response to the 2008 financial crisis. Massad was with the Treasury from 2009 to 2014 and also served as a counselor to the Treasury secretary. Prior to his government service, Massad was a partner in the law firm of Cravath, Swaine & Moore LLP. His practice included corporate finance and derivatives, and he managed the firm's Hong Kong office from 1998 to 2002. His articles and podcasts on crypto and financial regulation can be found at Brookings, as well as the *Wall Street Journal*, *Barron's*, *Bloomberg*, and other outlets. He received a J.D. from Harvard Law School and a B.A. from Harvard College.



David Mazières

*Professor of Computer Science, Stanford University
and Cofounder and Chief Scientist, Stellar Development Foundation*

David Mazières is a professor of computer science at Stanford University, where he leads the Secure Computer Systems research group and codirects the Future of Digital Currency Initiative. His research interests include operating systems and distributed systems, with a particular focus on security. He is also cofounder and chief scientist of the Stellar Development Foundation.



Patricia C. Mosser

*Director of the M.P.A. Program, Economic Policy Management
Columbia University*

Patricia C. Mosser is director of the M.P.A. Program in Economic Policy Management at Columbia University's School of International and Public Affairs and leads the school's Initiative on Central Banking and Financial Policy. Previously, she was head of Research and Analysis at the U.S. Treasury's Office of Financial Research. Mosser spent over 20 years at the Federal Reserve Bank of New York, where she was senior manager at the open market desk, overseeing market analysis, monetary policy implementation, foreign exchange and investment operations, and financial stability analysis. In 2009, she was System Open Market Account manager for the Federal Open Market Committee. She previously was an economist and manager in the New York Fed's Research Department and an assistant professor in the Economics Department at Columbia University. Mosser has written on financial stability and reform, crisis policy tools, cyber risks to financial stability, and the monetary transmission mechanism. She was previously a member of the Financial Stability Oversight Council Deputies Committee and a board member of the American Economic Association's Committee on the Status of Women in the Economics Profession. Currently, she serves as an outside director of Nomura Holdings Incorporated and Nomura Holdings America and on the Advisory Council of the Digital Dollar Project. She has a Ph.D. in economics from the Massachusetts Institute of Technology, an M.Sc. with distinction from the London School of Economics, and a B.A. from Wellesley College.



Manish Nagar

Chief Information Security Officer
Vanguard

Manish Nagar is a principal and the chief information security officer at Vanguard and is responsible for Vanguard's global security program. This includes security operations, security architecture and engineering, identity and access management, fraud detection and prevention, strategy, and security assurance functions. Prior to this role, Nagar was the chief risk officer for investment management, responsible for the execution, coordination, and evolution of the company's risk and quantitative processes across all global markets. He has also served as the global head of investment risk and head of risk management in Europe. Nagar joined Vanguard in 2000 and has held various positions of increasing responsibility within the Planning and Development, Information Technology, and Investment Management Divisions, along with numerous special assignments. He earned an M.B.A. from Rutgers University and a bachelor's degree in electronics and communication engineering from Bangalore University. A graduate of the Executive Masters in Technology Management program at the University of Pennsylvania (cosponsored by The Wharton School), he also completed the Advanced Leadership Program at the Stanford University Graduate School of Business and attended the Investment Management Workshop at Harvard Business School.



Neha Narula

Director
Digital Currency Initiative, Massachusetts Institute of Technology

Neha Narula is the director of the Digital Currency Initiative, a part of MIT Media Lab focusing on cryptocurrencies and blockchain technology. Her current research interests are in cryptocurrencies and distributed systems. She has designed and taught three courses at MIT on cryptocurrencies and blockchains and is a lecturer at the Sloan School of Management. In 2018, she was named on *WIRED's* list of 25 leaders shaping the next 25 years of technology and on *Fortune's* Ledger 40 Under 40 list. Narula has given a TED talk on the future of money with over 2 million views and is a member of the World Economic Forum's Global Blockchain Council. Earlier in her career, she helped relaunch the news aggregator Digg, and she was a software engineer at Google from 2003 to 2009. There, she was on the team that initially designed Blobstore, a system for storing and serving petabytes of immutable data, and she worked on Froogle, a shopping website, and Native Client, a way to run native code securely through a browser. She received her Ph.D. in computer science from MIT in 2015, where she worked on concurrency control for scalable databases, distributed systems, and web security, and she graduated from Dartmouth College with degrees in mathematics and computer science. She and her work have been featured by *TechCrunch*, *Black Hat*, *WIRED*, "PBS NewsHour," *CNBC*, "Amanpour and Company," and "60 Minutes."



Andreas Park

Professor of Finance
University of Toronto

Andreas Park is a professor of finance at the University of Toronto, appointed to the Rotman School of Management and the Department of Management at the University of Toronto Mississauga, and he currently holds the Canadian Securities Institute's Research Foundation Limited-Term Chair. He serves as the research director at FinHub, Rotman's Financial Innovation Lab. He has served as a lab economist for the Blockchain Stream at the Creative Destruction Lab (a world-leading startup accelerator program) and has advised various entities such as regulatory agencies, fintech startups, and large banks. Park teaches undergraduate, graduate, and executive courses on payments innovation, decentralized finance, and financial market trading, and his current research focuses on the economic impact of technological transformations such as blockchain technology. He coauthored a design proposal for a central bank-issued digital currency commissioned by the Bank of Canada, and he also served two terms on the Ontario Securities Commission's Market Structure Advisory Committee.



Dan Quan

General Partner
Nevcaut Ventures

Dan Quan is general partner at Nevcaut Ventures, an early-stage venture capital firm that invests in fintech and insurance technology. He is also a senior advisor at McKinsey and an adjunct scholar at the Cato Institute. Quan has backed and advised many successful founders who have benefited from his wealth of regulatory expertise and extensive network in financial services. Previously, he was senior advisor to the director at the Consumer Financial Protection Bureau. He was instrumental in enabling open banking in the U.S., fostering the growth of earned wage access and experimenting with artificial intelligence and machine learning in credit underwriting. Well respected in both fintech and policy circles, Quan serves as a bridge between Silicon Valley and the Beltway.



Raghu Rau

Sir Evelyn de Rothschild Professor of Finance
Cambridge Judge Business School, University of Cambridge

Raghu Rau is the Sir Evelyn de Rothschild Professor of Finance at the Cambridge Judge Business School at the University of Cambridge. He is a past president of the European Finance Association and was an editor of *Financial Management*. He is on the editorial boards of several academic journals, including the *Journal of Corporate Finance* and the *Journal of Banking and Finance*. He has taught at a number of universities around

the world, including the University of California, Berkeley; the University of California, Los Angeles; Purdue University; and the Université Paris-Dauphine. Rau was also principal at Barclays Global Investors. His research has frequently been covered by the *New York Times*, the *Financial Times*, the *Wall Street Journal*, and *The Economist*, among others. He won the Ig Nobel Prize in Management, a prize awarded for research that makes people laugh and then think.



Ari Redbord

Head of Legal and Government Affairs
TRM Labs

Ari Redbord is the head of legal and government affairs at TRM Labs, a blockchain intelligence company. In addition to his role at TRM, he is vice chair of the Commodity Futures Trading Commission Technology Advisory Committee, a contributor to *Forbes*, and a leading voice on cryptocurrency policy and regulation. Prior to joining TRM, he was the senior advisor to the deputy secretary and the undersecretary for terrorism and financial intelligence at the United States Treasury. In that position, Redbord worked with teams from the Office of Foreign Assets Control, the Financial Crimes Enforcement Network, and other Treasury components to use sanctions and other regulatory tools effectively to safeguard the financial system from illicit use. In addition, Redbord worked closely with regulators on issues related to the Bank Secrecy Act, cryptocurrency, and anti-money laundering strategies. Prior to working at the Treasury, Redbord was an Assistant United States Attorney for the District of Columbia for 11 years, during which time he investigated and prosecuted terrorism, espionage, threat finance, cryptocurrency, export control, child exploitation, and human trafficking cases.



Katheryn Rosen

Managing Director, Global Head, Regional Information Security and Supervisory Engagement
JPMorgan Chase & Co.

Katheryn Rosen is the head of regional information security in the 60-plus countries where JPMorgan Chase & Co. (JPMC) operates. Rosen coheads Global Technology's Governance, Risk and Controls and reports to JPMC's chief information security officer. Externally, Rosen chairs the Securities Industry and Financial Markets Association's Cybersecurity Committee and is on the Management Committee of the Financial Services Sector Coordinating Council. She also serves on the board of the Cyber Risk Institute and supports JPMC's chief information officer on the Cybersecurity and Infrastructure Security Agency Cybersecurity Advisory Committee. Rosen has been in financial services for over 30 years, in the public and private sectors and academia. In government, she served at the U.S. Department of the Treasury as deputy assistant secretary for financial

institutions policy and senior advisor to the assistant secretary of financial institutions. Among her key strategic priorities for the department, she was responsible for the Office of Cybersecurity and Critical Infrastructure Protection. Rosen is an adjunct professor at Columbia University's School of International and Public Affairs (SIPA) and led the creation of SIPA's Cyber Risk to Financial Stability Project.



William G. Spaniel

Senior Vice President and Lending Officer
Federal Reserve Bank of Philadelphia

William (Bill) G. Spaniel is senior vice president and lending officer at the Federal Reserve Bank of Philadelphia. He started his career as a senior consultant for KPMG, and his interest in regulatory compliance led him to a 25-year tenure with the Board of Governors of the Federal Reserve System. While there, Spaniel held many different roles and was on the Y2K planning and response committees and coordinated the System's participation in the first International Monetary Fund Financial Sector Assessment Program review of the United States. He now oversees the Supervision, Regulation, and Credit Department at the Federal Reserve Bank of Philadelphia. Spaniel started his career in a community bank that placed a focus on outreach and support and has seen firsthand the difference that banks and bankers can make in both large and small communities. He is also interested in how financial institutions support growing and vibrant communities. He explores much of this interest in his department's community bank portfolio, which spans the Third District. Since joining the Bank in 2015, he has implemented several cultural initiatives in the supervision function. Spaniel has a bachelor's degree in economics from the College of William and Mary.



John Reed Stark

President
John Reed Stark Consulting LLC

Over the last 30 years, John Reed Stark's name has become synonymous with data breach response, cybersecurity, and digital regulatory compliance. As president of John Reed Stark Consulting LLC, he emphasizes quarterbacking teams of technical, compliance, and legal experts in data breach, cyber-incident response, digital forensics, security science, cyber risk resilience, and investigations for a broad range of public and private companies, professional service firms (including law firms), and government agencies. Stark is a well-known cybersecurity expert and the author of *The Cybersecurity Due Diligence Handbook*. He is also a senior fellow at Duke University Law School.



Graham Steele

Assistant Secretary for Financial Institutions
U.S. Department of the Treasury

Graham Steele serves as the assistant secretary for financial institutions at the U.S. Department of the Treasury. He is an expert on financial regulation and financial institutions, with more than a decade of experience working at the highest levels of law and policy in Washington, D.C. Steele was previously the director of the Corporations and Society Initiative at the Stanford Graduate School of Business, a research initiative that examines issues at the intersection of markets, business, and government to promote more accountable capitalism and governance. Prior to joining the Stanford Graduate School of Business, Steele was a member of the staff of the Federal Reserve Bank of San Francisco. From 2015 to 2017, he was the minority chief counsel for the U.S. Senate Committee on Banking, Housing, and Urban Affairs. From 2010 to 2015, he was a legislative assistant for U.S. Senator Sherrod Brown (D-OH), handling the senator's work as a member of the Senate Banking Committee. During that time, he also spent four years as the staff director of the Subcommittee on Consumer Protection and Financial Institutions. Prior to joining Senator Brown's staff, Steele was a policy counsel at Public Citizen's Congress Watch in Washington, D.C. He received a law degree from George Washington University Law School and a bachelor's degree in political science from the University of Rochester. He is a member of the Massachusetts State Bar.



Patrick Toomey

Board of Directors
Apollo Global Management

Patrick Toomey was elected as a Republican to the U.S. Senate in 2010 and represented Pennsylvania from 2011 to 2023. He previously served in the U.S. House of Representatives (1999–2005). While in Congress, he took a strong interest in economic and financial issues, particularly as they related to his platform of limited government and the deregulation of numerous sectors of the economy. In 2011, he introduced a proposal to balance the budget in 10 years; although it met with strong support, the bill was not enacted. He also cosponsored a bill that left regulatory control over fracking in the hands of the states rather than the federal government. Toomey currently serves on the board of directors at Apollo Global Management and several other private companies.



Sunayna Tuteja

Chief Innovation Officer
Federal Reserve System

Sunayna Tuteja joined the Federal Reserve System in 2021 as its first chief innovation officer. She leads the Fed's innovation agenda, in collaboration with business and technology partners, to strengthen innovation culture across the 12 Reserve Banks and the Board of Governors and to deliver meaningful outcomes with value for the constituents and communities that the Fed serves. Tuteja has more than 10 years of global experience leading change and innovation at the nexus of finance, technology, and policy. Prior to joining the Fed, she led digital transformation as a builder, operator, and venture investor within the fintech and crypto ecosystem, in North America and Asia. She is an alumna of the University of Alberta and Stanford University.



Thomas P. Vartanian

Executive Director
Financial Technology & Cybersecurity Center

Thomas P. Vartanian is the executive director of the Financial Technology & Cybersecurity Center. He is a nationally known attorney, author, advisor, regulatory expert, board mentor, and expert witness on financial services and technology. Between 1983 and 2018, he chaired the financial institutions practices at two international law firms. He served in the Reagan administration as general counsel of the Federal Home Loan Bank Board and the Federal Savings and Loan Insurance Corporation. Prior to that, he served in the Office of the Comptroller of the Currency as special assistant to the chief counsel during the Carter administration. Vartanian was chairman of the American Bar Association's Cyberspace Law Committee between 1998 and 2002, and he has authored more than 500 articles and nine books, including his newest book, *The Unhackable Internet: How Rebuilding Cyberspace Can Create Real Security and Prevent Financial Collapse*. That followed *200 Years of American Financial Panics: Crashes, Recessions, Depressions, and the Technology That Will Change It All*, which chronicled the United States' tumultuous financial history and the impact that technology will have. Vartanian is a frequent lecturer and media commentator on the financial services industry. He has appeared on Bloomberg TV, Fox News, CNN, Newsmax, Fox Business Tonight, BBC Radio, and many other television and radio shows and has written opinion pieces for the *Wall Street Journal*, the *Financial Times*, *The Hill*, and *American Banker*.



Ashwin Vasan

Associate Director for Research, Monitoring, and Regulations
Consumer Financial Protection Bureau

Ashwin Vasan is the associate director for research, monitoring, and regulations at the Consumer Financial Protection Bureau (CFPB) and a senior advisor to Director Rohit Chopra. In this role, he leads a team that evaluates the market for consumer financial products and develops policy priorities that ensure a fair, transparent, and competitive marketplace. Vasan has a long history in the private sector and government, and he returned to the CFPB in 2021 as part of the new administration. He had previously served as a senior advisor to Director Richard Cordray and as the bureau's chief information officer, a role in which he was critical in building the structures and teams that are continuing to serve the agency today. Vasan holds a J.D. from Harvard Law School, an M.Phil. in economics from the University of Cambridge, and an A.B. from Harvard University.



Mark Vermeersch

Chief Platform Officer
Treasury Prime

In his role leading strategy and product, Mark Vermeersch is responsible for the partnership and product strategy of Treasury Prime. He joined Treasury Prime from fintech lender Affirm, where he led product across Anywhere Financing and the Virtual Card Platform and enabled core product partnerships. Prior to joining Affirm, Vermeersch was general manager and product manager for Silicon Valley Bank's API platform. He started his career in institutional and hedge fund investing before transitioning to product and adjacent roles in tech, including a stint at Google. Vermeersch holds a B.B.A. in finance from the University of Notre Dame, an M.B.A. from the University of Chicago Booth School of Business, and a M.S. in product design and development from Northwestern University.



Luke Voiles

Chief Executive Officer
Pipe

Luke Voiles is a passionate fintech leader and business builder and is the new chief executive officer of Pipe. Prior to joining Pipe, he was the general manager of Square Banking at Block, where he led the global team responsible for managing, launching, and scaling small business banking and lending products. Before that, he was at Intuit, where he led a team in building out the small business lending unit, QuickBooks Capital, from scratch. Voiles

made the switch from private equity to fintech after more than a decade as a distressed asset and credit special situations investor at top-tier funds, including TPG Capital and Lone Star Funds. He has a J.D. and an M.B.A. from Southern Methodist University and a B.A. in computer science and economics from Austin College.



Per von Zelowitz

Director of the New York Innovation Center
Federal Reserve Bank of New York

Per von Zelowitz is the director of the New York Innovation Center at the Federal Reserve Bank of New York. The center provides an innovation execution capability for the central bank community in collaboration with the private and public sectors, including our strategic partner, the Bank for International Settlements. He was previously a director at PwC, where he was a member of the banking transformation team. He was coleader of the Banking and Lending Innovation Center, a fintech venture studio utilizing the principles of corporate innovation, entrepreneurship, and venture capital to create products and services in conjunction with partners. Prior to PwC, von Zelowitz was a senior entrepreneur in residence and cofounder of the D10X incubator at Citi Ventures, the innovation and venture capital group of Citigroup. Prior to Citi Ventures, he was a venture capitalist and software entrepreneur. He has an M.B.A. from the University of Cambridge and a double B.A. in economics and environmental studies from Macalester College, where he serves as a trustee emeritus.



Richard Walker

Partner
Bain & Company

Richard Walker is a partner at Bain & Company. He is also cohead of Bain's web3 & metaverse practice with a focus on financial services and a member of the enterprise technology practice. Walker has more than 28 years of consulting experience in technology strategy and transformation, along with deep expertise in financial services and industry software platforms. His recent focus has been on digital assets and blockchain across banking, investment management, and capital markets. He has bachelor's degree in computer information systems from Chapman University.



Kevin Werbach

Liem Sioe Liong/First Pacific Company Professor, Professor of Legal Studies and Business Ethics, and Department Chair
The Wharton School of the University of Pennsylvania

Kevin Werbach is the Liem Sioe Liong/First Pacific Company Professor, a professor of legal studies and business ethics, and department chair at the Wharton School of the University of Pennsylvania. A world-renowned expert on emerging technologies, he examines the business and policy implications of developments such as artificial intelligence, algorithmic regulation, gamification, and blockchain/digital assets. Werbach served on the Obama administration's Presidential Transition Team, helped to develop the U.S. approach to internet policy at the Federal Communications Commission during the Clinton administration, hosted the Supernova executive technology conference, and created one of the most successful massive open online courses, with over 500,000 enrollments. He directs the Wharton Blockchain and Digital Asset Project. His books, which have been translated into six languages, include *The Blockchain and the New Architecture of Trust*, *For the Win: How Game Thinking Can Revolutionize Your Business*, and *After the Digital Tornado*.



Paul Wong

Director of Product, Central Bank Digital Currencies and Institutional Assets
Stellar Development Foundation

Paul Wong is the director of product for central bank digital currencies and institutional assets at the Stellar Development Foundation. He helps governments, financial institutions, and fintech firms realize the potential of blockchain. He led work on Stellar Aid Assist, a blockchain-based humanitarian assistance solution, and is focused on building out Stellar's digital assets ecosystem (including stablecoins, tokenized securities, and central bank digital currencies). Prior to joining Stellar, Wong spent 17 years in central banking at the Federal Reserve Board and the Bank for International Settlements. At the Federal Reserve, he established and led the Board's Technology Lab, drafted international and domestic risk-management standards for financial market infrastructures, conducted supervision of systemically important payment systems, and oversaw the provision of central bank services to financial institutions.

