

Fifth Annual Fintech Conference

November 16–17, 2021



Cambridge
Centre
for Alternative
Finance



BROOKINGS



The Fifth Annual Fintech Conference

The Federal Reserve Bank of Philadelphia is hosting the Fifth Annual Fintech Conference on November 16–17, 2021. This virtual event is co-organized with Columbia University School of International and Public Affairs, the Wharton School of the University of Pennsylvania, the University of Cambridge, the Brookings Institution, and the Bank Policy Institute.

The goal of our annual fintech conferences has been to provide a platform for fintech experts to discuss various emerging issues around financial technology, its impact, and the appropriate policy responses. In the past, we have covered issues including artificial intelligence/machine learning (AI/ML), blockchain, central bank digital currency (CBDC), consumer protection, open banking, fintech partnership, challenger banks, and fintech regulations. This year's conference digs deeper into these topics and tracks emerging trends in the industry. All sessions will be recorded, and the videos will be made available to the public after the event.

Here are links to our previous annual fintech conferences — with the agenda, speaker bios, and the videos.

- [Joint Virtual Fintech Partnership Symposium 2021 \(Virtual\)](#)
- [Fourth Annual Fintech 2020 \(Virtual\)](#)
- [Third Annual Fintech 2019](#)
- [Fintech and the New Financial Landscape 2018](#)
- [Fintech: The Impact on Consumers, Banking, and Regulatory Policy 2017](#)

2021 Organizing Committee

Christopher Feeney
Bank Policy Institute

Richard Herring
The Wharton School of the
University of Pennsylvania

Julapa Jagtiani
Federal Reserve Bank of
Philadelphia

Aaron Klein
The Brookings Institution

Patricia C. Mosser
Columbia University School of
International and Public Affairs

Raghavendra Rau
University of Cambridge

Tuesday, November 16

1:00 p.m. **Opening Remarks**

Michael Hsu (Acting Comptroller, Office of the Comptroller of the Currency)

1:10 p.m. **Fireside Chat on Open Banking — Bankers' Perspectives**

Featured Guest:

Greg Baer (President and CEO, Bank Policy Institute)

Moderator:

Richard Herring (Professor, The Wharton School of the University of Pennsylvania)

1:45 p.m. Break

1:55 p.m. **Fireside Chat on Open Banking — Fintech Perspectives**

Featured Guest:

Steve Smith (CEO, Finicity, a Mastercard Company)

Moderator:

Dan Quan (Partner, Nevcaut Ventures)

Commentators:

Robert Morgan (Senior Vice President, Innovation and Strategy, American Bankers Association)

Bob Pivoris (Public Policy Manager, Intuit)

2:45 p.m. Break

2:55 p.m. **Keynote**

Patrick T. Harker (President and CEO, FRB Philadelphia)

Agenda

3:10 p.m. **Fireside Chat on “Buy Now, Pay Later” (BNPL)**

Featured Guest:

Anthony Eisen (CEO, Afterpay)

Moderator:

Lawrence H. Summers (Professor and President Emeritus, Harvard University)

3:50 p.m. Break

4:00 p.m. **Conversation with Fintech Investors on the Future of Fintech**

Featured Guests:

Hans Morris (Managing Partner, Nyca Partners) and
Matt Harris (Partner, Bain Capital Ventures)

Moderator:

Aaron Klein (Senior Fellow, Brookings Institution)

4:50 p.m. **Day 1 Closing Remarks**

James D. Narron (First Vice President and COO, FRB Philadelphia)

Wednesday, November 17

1:00 p.m. **Opening and Summary/Takeaways from Day 1**

Chris Feeney (EVP and President of BITS,
Bank Policy Institute)

Julapa Jagtiani (Senior Economic Advisor,
FRB Philadelphia)

Patricia C. Mosser (Professor, SIPA, Columbia
University)

Raghavendra Rau (Professor, University of
Cambridge)

1:20 p.m. **Fireside Chat on Fintech Partnership and
Open Banking**

Featured Guest:

Gilles Gade (CEO, Cross River Bank)

Moderator:

Gerron Levi (SVP, Head of Government Affairs,
American Fintech Council)

2:00 p.m. Break

2:15 p.m. **The Future of Mainstream Financial Technology and
Decentralized Finance (DeFi)**

Daniel Gorfine (CEO, Gattaca Horizons LLC)

Hanna Halaburda (Professor, NYU Stern School of
Business)

Kris Hansen (CTO, Synctera)

Mark Jackson (Quantum Evangelist, Cambridge
Quantum Computing)

Moderator:

Andrei Kirilenko (Professor, University of Cambridge)

3:15 p.m. Break

Agenda

- 3:30 p.m. **Banking Supervision in the New Fintech Banking Landscape**
Ann Epstein (Assistant Director, Office of Innovation, Consumer Financial Protection Bureau)
Beth Knickerbocker (Chief Innovation Officer, Office of Comptroller of the Currency)
Sultan Meghji (Chief Innovation Officer, Federal Deposit Insurance Corporation)
John Ryan (President and CEO, Conference of the State Bank Supervisors)
Lisa Ryu (Senior Associate Director, Federal Reserve Board)
- Moderators:
Stein Berre (Senior Vice President, FRB New York)
William G. Spaniel (Senior Vice President, Chief Lending Officer, FRB Philadelphia)
- 4:30 p.m. **Day 2 Closing Remarks**
William G. Spaniel (Senior Vice President, Chief Lending Officer, FRB Philadelphia)



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 United States. Prior to joining The Clearing House, Baer was managing director and head of Regulatory Policy at JPMorgan Chase. He previously 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 M&A, and data protection and privacy. Baer previously 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. From 1999 to 2001, he was assistant secretary for Financial Institutions at the U.S. Department of the Treasury, after serving as deputy assistant secretary.

Prior to working for 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 School and is a member of the Economic Club of Washington. He is also on the board of Honors Carolina and was previously on the boards of Enterprise Community Partners, the DC College Access Program, and the Appleseed Foundation. He is also 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 has a A.B. (with honors) from the University of North Carolina at Chapel Hill.



Stein Berre

**Senior Vice President
Federal Reserve Bank of New York**

Stein Berre is a senior vice president at the Federal Reserve Bank of New York, where he has worked since 2009. At the Fed, he has had leadership roles in areas of Risk, Policy, and Onsite Supervision. Currently, he heads the Federal Reserve onsite supervisory team for Morgan Stanley. Before joining the Fed, he led the Corporate Risk Consulting practice at Oliver Wyman, where he worked from 1992 to 2009, with a focus on banking and insurance strategy, risk assessment, management reporting, and governance. He has degrees in public policy and history from Princeton University and Harvard University.



Anthony Eisen

**Chief Executive Officer and Cofounder
Afterpay**

Anthony Eisen, chief executive officer and cofounder of Afterpay, was appointed co-CEO with Nick Molnar in November 2020. Prior to that, he was chief executive officer and managing director of Afterpay and was executive chairman of Afterpay for two years. Eisen brings over 25 years of experience in investing, public company directorships, and providing corporate advice across a variety of sectors. Prior to cofounding Afterpay, he was the chief investment officer at Guinness Peat Group (GPG), where he was actively involved in a number of financial services, software, and technology companies in which GPG was a major shareholder. Before joining GPG, he was involved in investment banking, specializing in mergers and acquisitions. He was a director of Foundation Life (NZ) Limited from 2014 to 2020 and is currently a director of Stone & Chalk Pty Ltd. and the Tech Council of Australia.



Ann Epstein

**Assistant Director
Office of Innovation, Consumer Financial Protection Bureau**

Ann Epstein is the assistant director of the Office of Innovation at the Consumer Financial Protection Bureau (CFPB). In this role, she leads the Office of Innovation in promoting consumer beneficial innovation, market competition, and fair consumer access in financial services. Before joining the CFPB, Epstein worked at Freddie Mac for 18 years in various leadership roles in product development and management. During the last five years of her tenure, her team was accountable for developing solutions to meet affordable lending and access to credit goals. She also held leadership roles in product development and management of digital products with responsibilities related to the Uniform Mortgage Data Program, Automated Underwriting, Automated Valuation Models, and eMortgages. Prior to Freddie Mac, she was in leadership and other roles in technology and consulting companies. Epstein has an M.B.A. in business administration from the Wharton School of the University of Pennsylvania, a B.S. in economics, and a bachelor of applied science in Systems Engineering through the Jerome Fisher Program of Management and Technology at the University of Pennsylvania.



Chris Feeney

**Executive Vice President
Bank Policy Institute**

Chris Feeney is executive vice president at the Bank Policy Institute (BPI) and president of BITS, the technology policy division of BPI. As president, Feeney represents the nation's largest financial institutions collaborating with the administration, government agencies, regulators, and policymakers to promote effective cybersecurity, resilience, risk management, and operating practices and to develop and shape the industry's use of emerging technologies. Feeney is experienced in board, executive management, technology, business/sales management, and operating roles at software companies, banks, broker dealers, and investment management firms. He is currently vice chair of the Financial Services Sector Coordinating Council, a board and operating management member of fTLD Registry Services, a Management Committee member of the Cyber Risk Institute, and a board and Executive Committee member of Sheltered Harbor. Feeney has been a board director at Scottrade, Inc., and Scottrade Bank, prior to its sale to TD Ameritrade and TD Bank, where he was the Risk Committee chair and a Technology Committee member. He is a former board advisor to Quovo, Inc. and Advizr, Inc., both of which had successful exits in 2019. Feeney is a National Association of Corporate Directors Governance Fellow.



Gilles Gade

**Founder, President, and Chief Executive Officer
Cross River Bank**

Gilles Gade is founder, president, and chief executive officer of Cross River Bank and was chairman of the company since its inception in 2008. Gade's vision has steered Cross River as an innovation-driven provider of trusted financial solutions in marketplace lending and next-generation payment processing. Cross River provides a highly secure, API-based banking platform and comprehensive suite of products encompassing lending, payments, risk management, and banking-as-a-service offerings to deliver responsible financial solutions to empower businesses and consumers. Gade began his career as a FIG Investment Banker at Bear Stearns and as a technology investment banker at Barclays Capital. He was also cofounder and managing director of Chela Technology Partners. Gade has an M.S. in international management from the MBA Institute IMIP (Groupe IPESUP) in Paris.



Hanna Halaburda

Associate Professor of Technology, Operations,
and Statistics
NYU Stern School of Business

Hanna Halaburda is an associate professor of Technology, Operations, and Statistics at NYU Stern School of Business. In her research, Halaburda studies how technology changes economic forces, affecting interactions in the marketplace and business models. Much of her work focuses on competition between platforms. Her current research is on the development of digital currencies and blockchain technologies. Her work has been published in *Management Science*, the *American Economic Journal*, *Games and Economic Behavior*, and other academic journals. She also wrote a book (with Miklos Sarvary) on digital currencies: *Beyond Bitcoin: The Economics of Digital Currency*, with the second edition coming later this year. Prior to joining NYU Stern, Halaburda was an assistant professor at Harvard Business School and a senior economist at the Bank of Canada. She has a Ph.D. in economics from Northwestern University and master's degrees in economics from the Warsaw School of Economics and philosophy from Warsaw University.



Kris Hansen

Cofounder and Chief Technology Officer
Synctera

Kris Hansen, cofounder and chief technology officer of Synctera, describes himself as “a recovering banking chief architect” and financial services hacker. He began his career as a system administrator and software developer, started one of the first Internet provider companies in Canada, and later built a software services company in Hawaii. He is the former chief architect at ATB Financial, former head of solution architecture at the Royal Bank of Canada, and was a banking industry principal at SAP. Hansen codeveloped a patent focused on contactless digital payments and biometric identity and has been involved in cryptocurrency and blockchain software development. Recently, he was the chief technology officer at Portag3 Ventures, a fintech-focused venture capital fund that invests in enabling entrepreneurs and innovation, and the chief technology officer at KOHO Financial.



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 served as 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.



Matt Harris

Partner

Bain Capital Ventures

Matt Harris is a partner at Bain Capital Ventures in New York City and focuses on investments in financial technology. He sees a huge amount of revenue, profit, and market cap shifting from regulated financial institutions to entrepreneur-led insurgents across payments, lending, capital markets, real estate, and insurance. Harris started his investing career at Bain Capital Private Equity in 1995, having worked previously at Bain & Company. In 2000, he founded Village Ventures, which he ran for 12 years and focused on early stage fintech investing. In 2012, he rejoined Bain Capital Ventures. Harris is on the board of the Williamstown Theatre Festival; is a board member at Endeavor, an organization leading the global movement to catalyze long-term economic growth by selecting, mentoring, and accelerating the best high-impact entrepreneurs around the world; and on the boards of GreaterNY and the Partnership Fund for New York City. Harris attended Williams College, where he majored in political economy (with a minor in rugby).



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 from 1995 to 2000 and director of the Lauder Institute from 2000 to 2006. 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 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. He has a doctorate and a master's degree from Princeton University and a bachelor's degree from Oberlin College.



Michael J. Hsu

Acting Comptroller of the Currency
Office of the Comptroller of the Currency

Michael J. Hsu is the acting Comptroller of the Currency in the Office of the Comptroller of the Currency (OCC). He became acting Comptroller of the Currency on May 10, 2021, upon his designation as First Deputy Comptroller by Secretary of the Treasury Janet Yellen.

In this role, Hsu is the administrator of the federal banking system and chief executive officer of the OCC. The OCC ensures that the federal banking system operates in a safe and sound manner, provides fair access to financial services, treats customers fairly, and complies with applicable laws and regulations. It supervises nearly 1,200 national banks, federal savings associations, and federal branches and agencies of foreign banks that serve consumers, businesses, and communities across the United States and conducts approximately 70 percent of banking activity in the country. These banks range from community banks serving local neighborhood needs to the nation's largest most internationally active banks.

The Comptroller also is a director of the Federal Deposit Insurance Corporation and a member of the Financial Stability Oversight Council and the Federal Financial Institutions Examination Council.

Prior to joining the OCC, Hsu was an associate director in the Division of Supervision and Regulation at the Federal Reserve Board of Governors. In that role, he chaired the Large Institution Supervision Coordinating Committee Operating Committee, which has responsibility for supervising the global systemically important banking companies operating in the United States. He cochaired the Federal Reserve's Systemic Risk Integration Forum, was a member of the Basel Committee Risk and Vulnerabilities Group, and cosponsored forums promoting interagency coordination with foreign and domestic financial regulatory agencies.

During his career, he was a financial sector expert at the International Monetary Fund, a financial economist at the U.S. Department of the Treasury helping to establish the Troubled Assets Relief Program, and a financial economist at the Securities and Exchange Commission overseeing the largest securities firms. Hsu began his career in 2002 as a staff attorney in the Federal Reserve Board's Legal Division. He has a J.D. from New York University School of Law, an M.S. in finance from George Washington University, and a B.A. from Brown University.



Mark Jackson

**Quantum Evangelist
Cambridge Quantum Computing**

Mark Jackson is the quantum evangelist at Cambridge Quantum Computing. He spent 10 years researching superstring theory and cosmology, coauthoring almost 40 technical articles. To promote the public understanding of science, he founded Fiat Physica, the science crowdfunding platform, and the nonprofit Science Partnership Fund. He is an adjunct faculty member at Singularity University and a director of Astronomers Without Borders. He has a Ph.D. in theoretical physics from Columbia University and a B.S. in physics and mathematics from Duke University.



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.



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 in July 2019, 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 CFTC, he spent 12 years 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
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 Bipartisan Policy Center (BPC)'s Financial Regulatory Reform Initiative 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 from 2009 to 2012. At the Treasury, he worked on financial regulatory reform, 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, Klein 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 legislation, 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 Princeton University's Woodrow Wilson School of Public Affairs.



Beth Knickerbocker

**Chief Innovation Officer
Office of the Comptroller of the Currency**

Beth Knickerbocker is the chief innovation officer at the Office of the Comptroller of the Currency (OCC). In this role, Knickerbocker is responsible for managing the day-to-day operations of the Office of Innovation and implementing the OCC's innovation framework. She served in an acting capacity in this role from October 2016 before officially taking on these duties in May 2017. Prior to this role, she was on the OCC's legal staff since 2014, working on a variety of legislative and regulatory matters and working groups related to cybersecurity, financial technology, and financial innovation. Before the OCC, Knickerbocker was a vice president and senior counsel in the American Bankers Association (ABA)'s Office of Regulatory Policy from 2012 to 2014 and focused on implementing the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, risk management, governance insider lending, transactions with affiliates, and bank examination issues.

Before joining the ABA, Knickerbocker was the chief risk officer for Marshall & Ilsley Corporation. She was also an attorney at the law firm Sutherland Asbill & Brennan LLP (now Eversheds Sutherland LLP). She began her career as an attorney with the OCC from 1992 to 2000 in the Enforcement and Compliance and Community and Consumer Law divisions. She is a graduate of the University of Iowa College of Law (high distinction) and has a B.A. in politics and international relations from Cornell College (magna cum laude, Phi Beta Kappa).



Gerron Levi

**Senior Vice President and Head of Government Affairs
American Fintech Council**

Gerron Levi is senior vice president and head of government affairs at the American Fintech Council. An accomplished legal professional with extensive experience creating and executing strategies to influence national and state public policy, she has current relationships with the U.S. Congress, administration, federal agencies, and state officials established through roles in senior policy, government affairs, and state delegate roles. Her understanding of the legislative and political processes as well as regulatory and administrative procedures has made her skilled in presenting policy positions as a key spokesperson at high-level meetings, through media outlets, on conference panels, in communications to the U.S. Congress and the White House, and as an expert witness testifying before the U. S. Congress and state committees.



Sultan Meghji

**Chief Innovation Officer, FDITECH
Federal Deposit Insurance Corporation**

Sultan Meghji has been the chief innovation officer of the Federal Deposit Insurance Corporation (FDIC) since February 2021. Prior to joining the FDIC, he cofounded a financial technology firm providing secure, cloud-native, artificial intelligence-based software for community banks and credit unions. In addition, he worked on an aid mission to help implement digital banking in Kenya, Tanzania, and Uganda, and worked with fintechs and central banks to create peer-to-peer banking solutions for people in underserved areas of Africa and Central Asia. Meghji is a nonresident scholar in the Cyber Policy Initiative at the Carnegie Endowment for International Peace. His research focuses on the architecture of the global financial system, cyber and critical infrastructure security, and the impact of artificial intelligence and quantum computing. He is also an adjunct professor at Washington University's Olin Business School, and a distinguished member of the Bretton Woods Committee and the Missouri Advisory Committee for the U.S. Global Leadership Coalition. He was an advisor to the U.S. Department of the Treasury, the Group of Seven (G7), the Office of the Comptroller of the Currency (OCC), and the Federal Bureau of Investigation (FBI) in cybersecurity, quantum computing, and artificial intelligence.



Robert Morgan

**Senior Vice President
Office of Innovation, American Bankers Association**

Robert Morgan is senior vice president at the American Bankers Association (ABA)'s Office of Innovation. Since joining the ABA in 2011, Morgan has worked to ensure that banks have the tools to innovate and partner, as well as a policy environment that facilitates innovation. He led ABA's fintech task force, which developed ABA's fintech playbook and other resources at ABA.com/fintech. He has an M.B.A. from the Wharton School of the University of Pennsylvania and studied economics at Connecticut College.



Hans Morris

**Managing Partner
Nyca Partners**

Hans Morris is managing partner of Nyca Partners, a fintech venture capital in New York and San Francisco founded in 2014, and currently investing in its third fund. He is the chairman of the board of Lending Club, and a board member of six private companies: AvidXchange, Payoneer, SigFig, PayRange, Fidel, and Propel. From 2010 to 2014, he was managing director at General Atlantic, a global growth equity firm. From 2007 until 2010, he was president of Visa Inc., and from 1980 until 2007, he worked at Citigroup in several operating and management roles, including as chief financial officer and head of finance, technology, and operations for Citi's institutional businesses, as chief operating officer of the investment bank, and as head of the financial services group at Salomon Smith Barney. He is a trustee of the Public Theater in New York and a former chairman of the boards of MASS MoCA and the Hopkins Center for the Arts at Dartmouth. He graduated from Dartmouth College.



Patricia C. Mosser

**Director of the MPA Program
Economic Policy Management, Columbia University**

Patricia C. Mosser is director of the MPA 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 Office of Financial Research, U.S. Department of the Treasury. Mosser spent more than 20 years at the Federal Reserve Bank of New York, where she was senior manager at the Fed's open market desk, overseeing market analysis, monetary policy implementation, crisis-related facilities, foreign exchange operations, and analysis of financial stability. 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 Research Department and an assistant professor in the Economics Department at Columbia University. Mosser has written on financial stability and monetary policy topics, including financial reform, crisis policy tools, cyber-risks to financial stability, and the monetary transmission mechanism. She has a Ph.D. in economics from MIT, an MSc (with distinction) from the London School of Economics, and a B.A. from Wellesley College.



James D. Narron

**First Vice President and Chief Operating Officer
Federal Reserve Bank of Philadelphia**

James D. Narron joined the Federal Reserve Bank of Philadelphia in April 2016 as first vice president and COO. He was reappointed for his second five-year term effective March 1, 2021. Previously, Narron was a senior vice president and product manager at the Federal Reserve Bank of San Francisco and senior vice president at the Federal Reserve Bank of New York. Before joining the New York Fed, Narron worked at the Federal Reserve Bank of Kansas City, the Board of Governors in Washington, D.C., and in consulting, primarily for foreign central banks. In addition, Narron and his coauthors published a series of 25 articles for the New York Fed's *Liberty Street Economics* blog that chronicle mostly forgotten financial crises over the 300 years from 1620 to 1920, just prior to the Great Depression, and explain why the lessons of the past are still relevant today.

Narron speaks Spanish and is on the board of Ben Franklin Technology Partners of Southeastern Pennsylvania and the Sunday Breakfast Club. Narron previously served on the board of the Maura Clarke and Ita Ford Center in New York, as well as chair of the board of directors for the Keep A Breast Foundation. Narron has

Biographies

a master's degree in international business administration from the University of South Carolina and a bachelor's degree in finance and economics from Rockhurst University in Kansas City, MO.



Bob Pivoris

Public Policy Issue Manager
Intuit

Bob Pivoris is a public policy issue manager at Intuit. In this role, he is responsible for managing a range of public policy issues, including open banking. Intuit's mission is to power prosperity around the world by helping customers try to make ends meet, maximize their tax refunds, save money, and pay off debt. And for those who start a business, Intuit helps them find and keep customers, get paid for their work, access capital to grow, and ensure their books are right. Prior to his current role, he spent over 20 years in various information security and IT risk management leadership positions across the technology, financial services, and manufacturing industries. Pivoris has a B.S. in industrial management from Purdue University. He also has professional certifications: the Certified Fraud Examiner, Certified Information Systems Security Professional, and Certified Information Systems Auditor.



Dan Quan

General Partner
Nevcaut Ventures

Dan Quan is general partner at Nevcaut Ventures, managing partner of Banks Street Advisory, senior advisor for McKinsey's Banking Practice, and an adjunct scholar at the Cato Institute. A nationally recognized fintech thought leader, Quan serves as a bridge between Silicon Valley and the Beltway. His understanding of disruptive technologies and regulatory policies makes him a trusted advisor to many CEOs of fintech firms. More recently, he was senior advisor to the director at the Consumer Finance Protection Bureau (CFPB) and led Project Catalyst, its fintech office. The first of its kind in the world, Project Catalyst has inspired regulatory agencies across the globe to set up dedicated innovation hubs to promote financial innovation. Before joining the CFPB, he was a research associate at Harvard Business School (HBS) and a key contributor to two influential HBS research projects on the U.S. competitiveness led by Professor Michael Porter: *Prosperity At Risk* (2012) and *Competitiveness at a Crossroads* (2013). Prior to that, he was a consultant at Willis Towers Watson. Quan is a Chartered Financial Analyst charterholder.



Raghavendra Rau

**Sir Evelyn 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*, among others. He has taught at a number of universities around the world, including the University of California, Berkeley; University of California, Los Angeles; Purdue University, and the Université Paris-Dauphine. Rau was also principal at Barclays Global Investors from 2008 to 2009. 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 in 2015, a prize awarded for research that makes people laugh and then think.



John Ryan

**President and Chief Executive Officer
Conference of State Bank Supervisors**

John Ryan is the president and chief executive officer of the Conference of State Bank Supervisors (CSBS), the national organization of financial regulators from all 50 states and U.S. territories. Since becoming president and chief executive officer in 2011, Ryan has provided strategic leadership in advancing the system of state financial supervision. He previously was CSBS's executive vice president and assistant vice president of Legislative Affairs. He also led the financial services consulting practice at a public affairs firm and worked on the U.S. House Banking, Finance and Urban Affairs Committee. Ryan has a B.A. in political science and economics from the University of California, Berkeley.



Lisa Ryu

Senior Associate Director
Board of Governors of the Federal Reserve System

Lisa Ryu is a senior associate director in the Division of Banking Supervision and Regulation at the Board of Governors of the Federal Reserve System. She joined the Board in 2011 and currently oversees the cross-portfolio supervision function that covers operational resilience supervision, risk identification and analysis, the Shared National Credit program, and the Federal Reserve's stress testing program. Ryu started her career as an economist at the Federal Deposit Insurance Corporation and has served in various roles, including participating in key crisis management initiatives during the global financial crisis.



Steve Smith

CEO and Cofounder
Finicity

Steve Smith is the chief executive officer and cofounder of Finicity (a Mastercard company), an industry innovation platform providing consumer-permissioned financial data and insights. He has built a strong reputation with customers and partners for developing creative strategies and disruptive technologies that deliver market efficiencies, provide better experiences, and enable new business models. He has been the creative force behind many of Finicity's offerings for financial data APIs, credit-decisioning tools, and financial wellness solutions. In building Finicity, Smith has leveraged executive leadership experiences from public and private organizations, spanning large enterprises to small start-ups. Highlights include senior executive responsibilities for the world's largest supplier of data communications products for mobile computers, where he is credited as a pioneer in mobile data communications and in turning around a large industrial manufacturer to become a leader in its market. He is a graduate of the University of Utah finance program.



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 already implemented several cultural initiatives in the supervision function. Spaniel has a bachelor's degree in economics from the College of William and Mary.



Lawrence H. Summers

**Charles W. Eliot University Professor and President
Emeritus
Harvard University**

Lawrence H. Summers is the Charles W. Eliot University Professor and President Emeritus at Harvard University. The former Treasury Secretary is one of America's leading economists. In addition to serving as 71st Secretary of the Treasury in the Clinton administration, Summers was director of the White House National Economic Council in the Obama administration, president of Harvard University, and the chief economist of the World Bank. Summers' tenure at the U.S. Treasury coincided with the longest period of sustained economic growth in U.S. history. He is the only Treasury Secretary in the last half-century to have left office with the national budget in surplus and has played a key role in addressing every major financial crisis for the last two decades.

During the 1990s, Summers was a leader in crafting the U.S. response to international financial crises arising in Mexico, Brazil, Russia, Japan, and Asian emerging markets. As one of President Barack Obama's chief economic advisors, Summers' thinking helped shape the U.S. response to the 2008 financial crisis, the failure of the automobile industry, and the pressures on the European monetary system. Summers' five years as president of Harvard represented a time of major innovation for the university. He focused on equality of opportunity and removing all financial obligation from students with family incomes below \$60,000 a year. He launched a major effort to make Boston, and Cambridge in particular, the global leader in life sciences research, with the formation of major programs for stem cell research and genomics. He also led efforts to renew Harvard College with dramatic increases in study abroad programs, faculty-student contact, and collaboration across the university during his tenure.

At Harvard University, Summers became a full professor at age 28, one of the youngest in Harvard's recent history. He directs the university's Mossavar-Rahmani Center for Business and Government. Summers was the first social scientist to receive the National Science Foundation's Alan Waterman Award for scientific achievement and, in 1993, was awarded the John Bates Clark Medal, given to the most outstanding economist under 40 in the United States. He was elected to the National Academy of Sciences in 2002. He has published more than 150 papers in scholarly journals.



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