MICHAEL JUNHO LEE

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New York, NY 10045
michaeljunholee@gmail.com

PROFESSIONAL

Federal Reserve Bank of New York
Financial Research Advisor — *2025 - Present*
Financial Economist — *2016 - 2025*

Princeton University
Visiting Lecturer — *2019 - 2024*
Visiting Scholar — *Spring 2022*

Korea University
Visiting Scholar — *Summer 2022*

Yale Program of Financial Stability, Systemic Risk Institute
Symposium Participant — *Summer 2017*

EDUCATION

The Wharton School, University of Pennsylvania — 2016
Ph.D in Finance
M.A. in Finance

University of Pennsylvania — 2011
B.A. in Economics, Mathematics, Statistics (minor)

RESEARCH AREAS

Technology and Finance, Financial System Architecture, Money

PUBLICATIONS

1. *Cyber Risk and the U.S. Financial System: A Pre-mortem Analysis*
(with Thomas Eisenbach and Anna Kovner)
Journal of Financial Economics, 2022, 145(3), 802–826.
2. *Collateral Quality and Intervention Traps*
(with Daniel Neuhann)
Journal of Financial Economics, 2023, 147(1), 159-171.
3. *Cyber Risk Definition and Classification for Financial Risk Management*
(with Filippo Curti, Jeffrey Gerlach, Sophia Kazinnik, and Atanas Mihov)
Journal of Operational Risk, 2023, 18(2), 37-58.
4. *When it Rains, it Pours: Cyber Risk and Financial Conditions*
(with Thomas Eisenbach and Anna Kovner)
Economic Policy Review, 2024.
5. *Tor-Periphery Insider Networks*
(with Selman Erol)
Journal of Economic Theory, 2025, 106103.
6. *The Tokenised U.S. Dollar System*
Frontiers of Digital Finance, CEPR Chapter, 2025.

WORKING PAPERS

7. *Composable Finance*
8. *Privacy-Enhanced Payment Systems*
   (with Agostino Capponi and Brian Zhu)
9. *Financial System Architecture and Technological Vulnerabilities*
   (with Selman Erol)
10. *Regulating Decentralized Systems: Evidence from Tornado Cash Sanctions*
    (with Anders Brownworth, Jon Durfee, and Antoine Martin)
11. *Programming Money without Programmable Money*
    (with Antoine Martin)
12. *Market Structure and the Availability of Credit: Evidence from Auto Credit*
    (with Donghoon Lee and Reed Orchinik)
13. *Optimal Design of Tokenized Markets*
    (with Antoine Martin and Robert M. Townsend)
14. *Zero Settlement Risk Token Systems*
    (with Antoine Martin and Robert M. Townsend)
15. *Monetizing Privacy with Digital Cash*
    (with Rodney Garratt)
16. *Rent Seeking Platforms*
    (with Rodney Garratt, Antoine Martin, and Robert M. Townsend)
17. *Labor Reactions to Credit Deterioration: Evidence from Linkedin Activity*
    (with Jeff Gortmaker and Jessica Jeffers)
18. *Corporate Culture as an Implicit Contract*
    (with Jessica Jeffers)
19. *Uncertain Booms and Fragility*

OTHER PUBLICATIONS

1. *The Future of Payment Infrastructure Could Be Permissionless*
   (with Rod Garratt)
   Federal Reserve Bank of New York Liberty Street Economics, November 2025
2. *Data Security, AI, and Infrastructure: Examining Cyber Risk in the Financial System*
   (with Rinku Sinha)
   Federal Reserve Bank of New York The Teller Window, August 2025
3. *Interoperability of Blockchain Systems and the Future of Payments*
   (with Jon Durfee, Joseph Torregrossa, and Sarah Wang)
   Federal Reserve Bank of New York Liberty Street Economics, March 2025
4. *An Interoperability Framework for Payment Systems*
   (with Jon Durfee and Joseph Torregrossa)
   Federal Reserve Bank of New York Liberty Street Economics, March 2025
5. *How Censorship Resistant Are Decentralized Systems?*
   (with Jon Durfee)
   Federal Reserve Bank of New York Liberty Street Economics, February 2025
6. *Cyber Risk to Financial Stability: Evolving Threats and New Approaches to Resilience*
   (with Anna Kovner)
   Federal Reserve Bank of New York The Teller Window, August 2024

7. *What Makes Cryptocurrencies Different?*
   (with Anders Brownworth, Jon Durfee, and Antoine Martin)
   Federal Reserve Bank of New York Liberty Street Economics, August 2023
8. *FedNow Is Coming in July. What Is It, and What Does It Do?*
   (with Antoine Martin)
   Federal Reserve Bank of New York The Teller Window, June 2023
9. *What Makes Cryptocurrencies Different?*
   (with Anders Brownworth, Jon Durfee, and Antoine Martin)
   Federal Reserve Bank of New York Liberty Street Economics, August 2023
10. *Implications of Cyber Risk for Financial Stability*
    (with Danny Brando, Antonis Kotidis, Anna Kovner, and Stacey L. Schreft)
    FEDS Notes, 2022
11. *What Is Atomic Settlement?*
    (with Antoine Martin and Benjamin Müller)
    Federal Reserve Bank of New York Liberty Street Economics, November 2022
12. *The Future of Payments is not Stablecoins*
    (with Rod Garratt, Antoine Martin, and Joseph Torregrossa)
    Federal Reserve Bank of New York Liberty Street Economics, Feb 2022
13. *Why Central Bank Digital Currencies?*
    (with Raphael Auer, Jon Frost, Antoine Martin, and Neha Narula)
    Federal Reserve Bank of New York Liberty Street Economics, Dec 2021
14. *Central Banks and Digital Currencies*
    (with Tobias Adrian, Tommaso Mancini-Griffoli, and Antoine Martin)
    Federal Reserve Bank of New York Liberty Street Economics, June 2021
15. *Hey, Economist! What's the Case for Central Bank Digital Currencies?*
    (with Antoine Martin)
    Federal Reserve Bank of New York Liberty Street Economics, Apr 2021
16. *Monetizing Privacy and Central Bank Digital Currencies*
    (with Rod Garratt)
    Federal Reserve Bank of New York Liberty Street Economics, Nov 2020
17. *COVID-19 and the Search for a Digital Alternatives to Cash*
    (with Rod Garratt and Aaron Plesset)
    Federal Reserve Bank of New York Liberty Street Economics, Sep 2020
18. *Insider Networks*
    (with Selman Erol)
    Federal Reserve Bank of New York Liberty Street Economics, Jun 2020
19. *Bitcoin is Not a New Type of Money*
    (with Antoine Martin)
    Federal Reserve Bank of New York Liberty Street Economics, Jun 2020
20. *How Does Information Affect Liquidity in Over-the-Counter Markets?*
    (with Antoine Martin)
    Federal Reserve Bank of New York Liberty Street Economics, Jan 2020
21. *What Do Cryptocurrencies Do?*
    (with Erin Denison and Antoine Martin)
    Journal of Investing, Cryptocurrency Special Issue 2019, 28 (3) 57-61
22. *Deciphering Americans' Views on Cryptocurrencies*
    (with Sean Hundtofte, Antoine Martin, and Reed Orchinik)
    Federal Reserve Bank of New York Liberty Street Economics, March 2019

23. *Hey, Economist! What Do Cryptocurrencies Have to Do with Trust?*
(with Antoine Martin)
Federal Reserve Bank of New York Liberty Street Economics, Feb 2018

DISCUSSIONS

1. *Information and Market Power in DeFi Intermediation*
(Azar, Casillas, Farboodi)
2. *Battle of the Bots: Flash Loans, MEV, and Efficient Settlement*
(Lehar and Parlour)
3. *Examining the Necessity of CBDC for Wholesale Payments*
(Durfee, Maniff, and Slattery)
4. *Payment Disclosure, Credit Provision and the Optimal Regulation of Digital Currencies* (Agur, Ari, Dell'Ariccia)
5. *Nudges and Digital Banking Adoption*
(Choi and Loh)
6. *It's Not Who You Know – It's Who Knows You: Employee Social Capital and Firm Performance*
(Cho, Choi, Hertzel, and Wang)
7. *Vertically Disintegrated Platforms*
(Aymanns, Dewatripont, and Roukny)
8. *Payment System Externalities*
(Parlour, Rajan, and Walden)
9. *Smart Settlement*
(Khapko and Zoican)
10. *Network Hazard and Bailouts*
(Erol)
11. *Preventing Controversial Catastrophes*
(Baker, Hollifield, and Osambela)
12. *Credit Rating Inflation and Firms' Investments*
(Goldstein and Huang)

PANELS AND TALKS

1. *The Coming of the On-Chain Economy: Policy and Market Implications of Tokenizing Real-World Assets*
2026 WIFPR Roundtable
2. *Stablecoins, Banking, and International Implications*
2025 BofA Small Talks Symposium
3. *Digital Assets, Stablecoins, and Fintech Innovation*
2025 Evercore Digital Finance Summit
4. *Debt Markets at an Inflection Point*
2025 IIF-Fitch Global Debt Roundtable
5. *The Future of Money: The Genius Act, Stablecoins, and the Global Expansion of Blockchain-Based Finance*
2025 Conference, Richman Center for Business, Law, & Public Policy
6. *Stablecoin Innovation*
2025 NextFin, ETH NYC
7. *DeFi vs. TradFi: Institutions and Industrial Organization*
2025 WIFPR Roundtable

8. *FinTech Competition in Banking*
   2025 WIFPR Roundtable
9. *Stablecoin vs Tokenized Deposits vs CBDC*
   2024 Digital Money Roundtable, Qatar Centre for Global Banking & Finance
10. *Perspectives and Regulations of Digital Finance*
    2023 3rd Annual CBER Conference
11. *Regulatory Uncertainty in the Cryptocurrency Markets*
    2023 Applied Finance Conference
12. *Assessing Cyber Resilience During the Pandemic*
    2020 26th Annual Risk USA
13. *Systemic Risk in the Era of Covid-19*
    2020 INFORMS
14. Panelist CB&DC Seminar Series
15. Panelist SAMMF Seminar Series
16. *Blockchain Policy and Regulation*
    2019 NBER conference on Blockchain, Distributed Ledgers, and Financial Contracting

REFEREEING

Journal of Political Economy, Review of Economic Studies, Journal of Economic Theory, Theoretical Economics, Review of Economic Dynamics, Economics Letters, Journal of Finance, Journal of Financial Economics, Review of Financial Studies, Journal of Financial and Quantitative Analysis, Review of Finance, Management Science, Journal of Money, Credit and Banking, Journal of Financial Stability, International Journal of Central Banking, Quarterly Journal of Finance, Financial Innovation, Research Policy

CONFERENCE & WORKSHOPS

NY Fed Annual Innovation Conference
Co-lead Organizer *2025 –*

State-of-the-Field Conference on Cyber Risk to Financial Stability
Co-lead Organizer *2023 –*

Workshop on Cyber Risk to Financial Stability
Co-lead Organizer *2023 –*

NY Fed Annual FinTech Conference
Organizer *2019, 2020*

AWARDS, FELLOWSHIPS, AND GRANTS

Winner of LinkedIn Economic Graph Challenge, 2015
Wharton Finance Doctoral Fellowship, 2015-2016
Jacob Levy Equity Management Center Quantitative Financial Research Grant, 2015
Mack Institute for Innovation Management Research Fellowship, 2015
Dean's Fellowship for Distinguished Merit, University of Pennsylvania, 2011-2015

TEACHING

Lecturer, Princeton University

- *Institutional Finance: Trading and Markets (UG and MFIN)*, 2019-2024

Teaching Assistant, Wharton School, University of Pennsylvania

- *Monetary Economics and Macroeconomy (UG and MBA)*, 2012, 2015
- *Impact Investing (UG and MBA)*, 2015
- *Investment Management (UG and MBA)*, 2015
- *Advanced Corporate Finance (UG)*, 2014
- *Managerial Economics and Game Theory (UG)*, 2014
- *Urban Fiscal Policy (UG and MBA)*, 2013, 2014

MENTORING

Jeff Gortmaker (Harvard PhD, 2019); Reed Orchinik (MIT Sloan PhD, 2020); Twinkle Gupta (Columbia MA, 2024); Alexa Marciano (Chicago Booth PhD, 2024)