Stanford



Ruizhe Jia

Assistant Professor of Management Science and Engineering

Bio

BIO

I am an Assistant Professor in the Department of Management Science & Engineering at Stanford University. I earned my Ph.D. in Operations Research at Columbia University, advised by Prof. Agostino Capponi, and completed my B.S. and M.A. in Mathematics at UCLA.

My research sits at the intersection of financial technology, market microstructure, and mechanism design. I study how financial markets function and how they can be redesigned for greater efficiency and fairness, with a particular focus on decentralized finance (DeFi) and blockchain-based trading. My work spans three areas:

Market microstructure — analyzing trading behavior and designing better financial markets.

FinTech and DeFi — examining how cryptographic tools and decentralized protocols reshape financial transactions.

Incentives in financial technology — addressing misalignments that emerge in crypto-finance and proposing mechanisms that improve adoption and efficiency.

I believe finance is a social science that benefits from active engagement with real markets. I work closely with both industry and regulators to ensure my research not only advances theory but also informs practice and policy in digital assets and financial technology.

ACADEMIC APPOINTMENTS

- Assistant Professor, Management Science and Engineering

LINKS

- Personal Website: https://rj2536.github.io/

Teaching

COURSES

2026-27

- Advanced Topics in Blockchain & DeFi: Research, Market Design, and Microstructure: MS&E 347 (Win)
- Decentralized Finance & Blockchain: Innovation, Applications, and Entrepreneurship: MS&E 247 (Win)

- Senior Project: MS&E 108 (Win)

2025-26

- Advanced Topics in Blockchain & DeFi: Research, Market Design, and Microstructure: MS&E 347 (Win)
- Decentralized Finance & Blockchain: Innovation, Applications, and Entrepreneurship: MS&E 247 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Xinmeng Zeng

Master's Program Advisor

Stivi Canka, Lu Han, Urja Kohli, Lauren Rawson, Rahul Singh, Eileen Wu

Doctoral (Program)

David Dai, Gan Luo

Publications

PUBLICATIONS

- **Maximal extractable value and allocative inefficiencies in public blockchains** *JOURNAL OF FINANCIAL ECONOMICS*
  Capponi, A., Jia, R., Wang, K.
  2025; 172
- **Liquidity Provision on Blockchain-Based Decentralized Exchanges** *REVIEW OF FINANCIAL STUDIES*
  Capponi, A., Jia, R.
  2025