

Shihao Yu

sy3119@columbia.edu · +1 347-326-2550 · www.shihaoyu.org/about/
500 W 120 Street, New York, NY 10027, United States

ACADEMIC AFFILIATIONS

Postdoctoral Researcher, Columbia University, Department of Industrial Engineering and Operations Research (IEOR), Center for Digital Finance and Technologies Oct 2022 -
Sponsor: Prof. Agostino Capponi

EDUCATION

PhD in Financial Economics, Vrije Universiteit Amsterdam and Tinbergen Institute 2017 - Jan 2023
Advisor: Prof. Albert J. Menkveld

MPhil in Econometrics, Vrije Universiteit Amsterdam and Tinbergen Institute, *cum laude* 2017

Bsc in Economics and Finance, Southwestern University of Finance and Economics 2015

RESEARCH INTERESTS

Asset pricing, market microstructure, financial technology (FinTech), high-frequency trading, decentralized finance (DeFi), machine learning

REFERENCES

Albert J. Menkveld	Agostino Capponi	Angelo Rinaldo
Professor of Finance	Professor of IEOR	Professor of Finance and Systemic Risk
Vrije Universiteit Amsterdam	Columbia University	University of St. Gallen
albertjmenkveld@gmail.com	ac3827@columbia.edu	angelo.rinaldo@unisg.ch

Placement Director: Prof. Eric Bartlesman (e.j.bartelsman@vu.nl)

Placement Assistant: Christina Månsson (c.mansson@tinbergen.nl)

PUBLICATIONS/FORTHCOMINGS

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1. Central Counterparty Exposure in Stressed Markets, with Wenqian Huang and Albert J. Menkveld [Paper]
In **Management Science**, 2021, 67(6), 3596-3617
A clearing house' risk exposure can increase rapidly and crowded positions among clearing members contribute disproportionately to extreme changes.
 2. Non-Standard Errors, with Albert J. Menkveld and many other co-authors [Draft]
Forthcoming in **Journal of Finance**
Variation across researchers in the evidence-generating process leads to sizable differences in their testing results of the same set of hypotheses on financial markets.

WORKING PAPERS

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3. Does the Consolidated Feed Matter? (Job Market Paper) [Draft]
Revise and Resubmit at **Journal of Financial and Quantitative Analysis**
A faster consolidated feed surprisingly leads to an adverse impact on market liquidity, possibly due to increased informed algorithmic trading. A corrupted consolidated feed worsens market liquidity significantly.
 4. Price Discovery on Decentralized Exchanges, with Agostino Capponi and Ruizhe Jia [Draft]
Invited for submission at **Review of Financial Studies**; Covered by Bloomberg [Report]
On decentralized exchanges where informed traders have to bid a fee to compete for execution priority, they turn out to follow a jump bidding strategy: placing high initial bids to signal to their competitors.
 5. HFTs and Dealer Banks: Liquidity and Price Discovery in FX Trading, with Wenqian Huang, Peter O'Neill and Angelo Rinaldo [Draft]

A granular regulatory dataset reveals that high-frequency traders and dealer-banks play complementary roles in liquidity provision and price discovery in the FX market.

WORK IN PROGRESS

6. Information Attribution via Financial Machine Learning, with Agostino Capponi [Slides]

Time-aware neural network models and full-depth order book data perform extremely well in predicting out-of-sample short-term midquote returns.

TEACHING

Finance I (undergraduate), TA, Vrije Universiteit Amsterdam, Evaluation: 4.2/5	2017 - 2019, 2020
Financial Data Decision Analysis (graduate), TA, Vrije Universiteit Amsterdam	2017 - 2019
Asset Pricing (graduate), TA, Tinbergen Institute, Evaluation: 4.67/5	2017
Math II (graduate), TA, Tinbergen Institute, Evaluation: 4.5/5	2017
Thesis supervision (undergraduate and graduate), Vrije Universiteit Amsterdam	2018 - 2019, 2023

RESEARCH VISITS

Columbia University, IEOR Department, New York, United States	June - Sep 2022
Bank for International Settlements, Basel, Switzerland	Feb - May 2020
Financial Conduct Authority, London, United Kingdom	Sep - Nov 2019

CONFERENCES AND SEMINARS

SFS Cavalcade North America (scheduled) [5], AEA [Discussant], AFA* [4], Tel Aviv Finance Conference (canceled) [Discussant]	2024
EFA [4][5], NFA [5], MFA [Discussant], CICF [4], The Microstructure Exchange [5], SGF Conference [4], SFI Research Days* [5], European Summer Symposium in Financial Markets [4], Columbia-Bloomberg Machine Learning in Finance Workshop* [6], Markov Decision Process and Reinforcement Learning Workshop* [6]	2023
MI3 Plato [3], The Microstructure Exchange (Asian-Pacific version) [4]	2022
The Microstructure Exchange [3]	2021
AFA PhD Poster Session [1], ECB Macroprudential Stress Testing Conference [1]	2020
WEAI [1], The Asia-Pacific Association of Derivatives [1], The Central Bank Conference on the Microstructure of Financial Markets [1], Australasian Finance & Banking Conference [1]	2019

* indicates presented by co-author. Numbers in square brackets refer to papers or discussant role.

HONORS AND SCHOLARSHIPS

AFA Ph.D. Student Travel Grant (\$750)	2019
“KRX Outstanding Paper Award” (\$1,500) [1], Asia-Pacific Association of Derivatives	2019
Research Talent grant (€200,000), Netherlands Organization for Scientific Research (NWO)	2017

ACADEMIC SERVICE

Ad-hoc referee for The Review of Financial Studies, Management Science, Journal of Financial Stability

OTHER SERVICES

PhD Council member, School of Business and Economics, Vrije Universiteit Amsterdam	2020 - 2022
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PERSONAL

Fluent in English, basic in Dutch (A2), native in Chinese, history, philosophy, film, badminton, Chinese calligraphy