Jizhou Liu

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Areas of Research

Econometrics, Causal Inference, Design and Analysis of Randomized Experiments, Reinforcement Learning

Professional Experience

Peking University HSBC Business School, Assistant Professor, Aug 2025 - present

Education

Ph.D. Econometrics and Statistics, The University of Chicago Booth School of Business, 2020-2024

M.S. Management Science and Engineering, Stanford University, 2018-2020

MPhil Economic Research (with Distinction), University of Cambridge, 2017-2018

Bachelor in Economics, Peking University, 2014-2017

B.A. Farsi, Beijing Foreign Studies University, 2013-2017

Research

Working Papers

Inference for Two-stage Experiments under Covariate-Adaptive Randomization, revision requested at *Journal of Econometrics*

Efficient Treatment Effect Estimation in Observational Studies under Heterogeneous Partial Interference (with Zhaonan Qu, Ruoxuan Xiong and Guido Imbens), revision requested at *Journal of Business & Economic Statistics*

On the Efficiency of Finely Stratified Experiments (with Yuehao Bai, Azeem Shaikh and Max Tabord-Meehan) , revision requested at *Annals of Statistics*

Randomization Inference for Two-Sided Market Experiments (with Azeem Shaikh and Panos Toulis)

Auto-G-Computation of Doubly Robust Estimation on a Network (with Dake Zhang and Eric J. Tchetgen Tchetgen)

Publications and Forthcoming Papers

Inference in Cluster Randomized Trials with Matched Pairs (with Yuehao Bai, Azeem Shaikh and Max Tabord-Meehan), *Journal of Econometrics* 245(1), 105873. (2024)

Inference for Matched Tuples and Fully Blocked Factorial Designs (with Yuehao Bai and Max Tabord-Meehan), *Quantitative Economics* 15(2), 279–330. (2024)

Revisiting the Analysis of Matched Pair and Stratified Experimental Designs in the Presence of Attrition (with Yuehao Bai, Meng Hsuan Hsieh, and Max Tabord-Meehan), *Journal of Applied Econometrics* 39(2), 256–268. (2024)

Proximal Causal Inference for Synthetic Control with Surrogates (with Eric J. Tchetgen Tchetgen and Carlos Varjão), *The 27th International Conference on Artificial Intelligence and Statistics (AISTATS), 2024*

Learning Intuitive Policies Using Action Features (with Mingwei Ma, Samuel Sokota, Max Kleiman-Weiner, Jakob Foerster), *International Conference on Machine Learning (ICML), 2023*

Professional Experience

Amazon.com Inc, Postdoctoral Scientist (with Eric J. Tchetgen Tchetgen), Aug 2024 - Aug 2025

Tower Research Capital, Quantitative Trader Intern, May 2023 - Nov 2023

Amazon.com Inc, Applied Scientist Intern (with Eric J. Tchetgen Tchetgen), Jun 2022 - Sep 2022

Facebook AI Research, Student Researcher (with Jakob Foerster), Jun 2021 - Sep 2021

Awards

2022, Amazon Graduate Fellowship

2021, Katherine Dusak Miller PhD Fellowship, Booth School of Business, University of Chicago

2018, Cambridge Trust Scholarship, University of Cambridge

2016, "Research on Chinese economy" Scholarship, National School of Development, Peking University

Conferences & Presentations

2025: Northwestern University Microeconometrics Conference, CUHK Shenzhen

2024: Econometrics Junior Conference (University of Notre Dame)

Teaching Experience

Teaching Assistant
- Applied Econometrics, BUS 41903, University of Chicago Booth School of Business, 2023

Referee Activities

Journal of Applied Econometrics, The International Conference on Learning Representations (ICLR), Journal of the American Statistical Association

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