

# Jizhou Liu

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## Areas of Research

Causal Inference, Design and Analysis of Randomized Controlled Trials, Reinforcement Learning

## Education

Ph.D. Econometrics and Statistics, The University of Chicago Booth School of Business, 2020-2025

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

MPhil Economic Research, University of Cambridge, 2017-2018

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

## Research

### *Publications and Forthcoming Papers*

Inference for Matched Tuples and Fully Blocked Factorial Designs (with Yuehao Bai and Max Tabord-Meehan) accepted by *Quantitative Economics*

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) forthcoming at *Journal of Applied Econometrics*

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) (ICML)*, 2024

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

### *Working Papers*

Inference in Cluster Randomized Trials with Matched Pairs (with Yuehao Bai, Azeem Shaikh and Max Tabord-Meehan) revision requested at *Journal of Econometrics*

Inference for Two-stage Experiments under Covariate-Adaptive Randomization

On the Efficiency of Finely Stratified Experiments (with Yuehao Bai, Azeem Shaikh and Max Tabord-Meehan)

Efficient Treatment Effect Estimation in Observational Studies under Heterogeneous Partial Interference (with Zhaonan Qu, Ruoxuan Xiong and Guido Imbens)

## Professional Experience

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

**Amazon.com Inc**, Applied Scientist Intern (Supervisor: Eric Tchetgen Tchetgen), Jun 2022 - Sep 2022

**Facebook AI Research**, Student Researcher (Supervisor: Jakob Foerster), Jun 2021 - Sep 2021

Last updated: January 20, 2024