

# Jizhou Liu

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## Areas of Research

Causal Inference, Design and Analysis of Randomized Experiments, 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*

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

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) accepted by *Journal of Applied Econometrics*

### *Working Papers*

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

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)

Inference in Cluster Randomized Trials with Matched Pairs (with Yuehao Bai, Azeem Shaikh and Max Tabord-Meehan)

Proximal Causal Inference for Synthetic Control with Surrogates (with Eric J. Tchetgen Tchetgen and Carlos Varjão)

## 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: November 6, 2023