

# Jizhou Liu

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## Areas of Research

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

## Dissertation Committee

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## 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

### *Publications and Forthcoming Papers*

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

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

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.

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

### *Working Papers*

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

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)

### *Work in Progress*

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

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

## Professional Experience

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

- Leading research to advance methodological innovation in causal inference, machine learning, and deep learning, driven by complex challenges on the Amazon marketplace.

**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

## 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)

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