Zheng (Lucas) Zhang

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EDUCATION

Ph.D. in Economics, University of California, Los Angeles   Expected Spring 2023

- <u>Specializations</u>: Econometrics(Theory and Applied), Causal Inference, Machine Learning

B.A. in Economics, University of California, Berkeley   May 2017

- Highest Honor in Economics; Highest Distinction in General Scholarship

SKILLS

Technical Skills	Python, SQL, R, MATLAB, LaTeX, Microsoft Office
Soft Skills	Teamwork, Communication, Adaptability, Leadership, Work Ethic

PROJECTS AND EXPERIENCE

Difference-in-Differences Models with Continuous Treatments   (Ph.D. Job Market Paper)

- Extended difference-in-differences models to allow for continuous treatments;
- Developed estimation and statistical inference results under the double/debiased machine learning framework;
- Programmed the double machine learning models in Python using packages such as scipy and sklearn;
- Provided extensive econometric analysis of a large-scale policy intervention with the Indonesian census dataset.

High-dimensional Conditional Density Estimation   (Ph.D. Job Market Paper)

- Developed a unified machine learning framework for estimating high-dimensional conditional density;
- Developed a data-driven estimator with proven statistical optimality;
- Programmed the estimation algorithm in Python, specifically combining cross-fitting and many state-of-the-art machine learners;
- Provided extensive applications in economics and causal inference.

Teaching Assistant Consultant   Sep 2021 – Current
University of California, Los Angeles

- Co-facilitated with the Vice-chair on the development and training of new graduate student instructors;
- Supported graduate student instructors via consultation, observations, and providing feedback;
- Co-developed guidelines with the Vice-chair on the remote teaching and training during the pandemic.

Instructor   June 2020 – Aug 2022
University of California, Los Angeles

- Instructor of undergraduate econometrics course;
- Topics: multivariate regression, omitted variable bias, diff-in-diff, Python(via Jupyter).

Research Assistant   Aug 2015 – Jan 2022
University of California, Los Angeles; University of California, Berkeley

- Provided report on the impact of "big data" and machine learning on the economics profession and beyond.
- Provided review and simulations on cross-validations in high-dimensional econometrics methods.
- Provided extensive data support on the study of DoD spending multipliers.
- Analyzed legislative documents and studied the impact of regulations on alternative finances.