

JIEYU GAO

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Education

Ph.D. Candidate in Economics, University of California, Irvine	Expected Spring 2024
M.A. in Economics, University of California, Irvine	Dec. 2019
B.S. in Economics and Applied Statistics ((Dual Degree)), Purdue University	2016

Research Interest

Bayesian Econometrics, Causal Inference, Discrete Data Analysis, Machine Learning, Nonparametric Statistics

Working Papers

The Impact of Heteroskedasticity in Observational Studies of Causal Effects *With Ivan Jeliazkov*
Bayesian Analysis of a Self-selection Model with Multiple Outcomes
Product pricing with consumer learning

Work in Progress

Bayesian Analysis of Drug and Mental Health Treatment Effects

Bayesian Synthetic Control Method *with Ivan Jeliazkov and Shubham Karnawat*

Work Experience

Amazon	June 2023 – Sep. 2023
<i>Economist Intern</i>	<i>Bellevue, WA</i>

- Used instrumental variables, A/B testing, double/debiased machine learning, and fuzzy regression discontinuity design to estimate the average treatment effect and heterogeneous treatment effect of a particular product on financial metrics and customer engagements.
- Provided detailed business and technical documents as references for business decisions.
- Skills: Python, R, SQL, AWS Redshift, AWS SageMaker, Causal Inference, Machine Learning.

Purdue University, ITaP	June 2016 – May 2018
<i>Emerging IT Leaders</i>	<i>West Lafayette, IN</i>

- High-performance computing (HPC) support: Communicated with researchers about their research computing concerns and provided solutions.
- Analyzed the HPC usage data and provided useful data visualizations using Python and Jupyter Notebook.
- Used SQL to generate data tables based on researchers' requests.
- Skills: SQL, Python, Jupyter Notebook, Data Visualization.

Conference and Seminar Participation

Econometrics Seminar, UC Irvine, 2023

Macroeconomics Brownbag Seminar, UC Irvine, 2023

Economics Annual Poster Session, UC Irvine, 2020-2023

Fellowships

Associate Dean's Fellowship, Spring 2023

Graduate Student Researcher Fellowship (GSR), 2018 - 2019

Teaching Assistant Experience

Statistics for Business Decision Making	Fall 2023
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Applied Econometrics I	Winter 2021, Fall 2022, Winter 2023
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Applied Econometrics II	Fall 2020, Fall 2021
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Econometrics II	Winter 2022
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Probability and Statistics ECON I	Summer I 2020
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Intermediate Economics III	Spring 2021
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Industrial Organization I	Winter 2020
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Industrial Organization III	Spring 2020
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International Trade and Commercial Policy	Summer II 2021
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Global Economy	Fall 2019, Spring 2022
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Basic Economics I	Summer II 2020
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References

Ivan Jeliazkov (Chair), Associate Professor, Dept. of Economics, University of California, Irvine
Email: ivan@uci.edu

Yingying Dong, Professor, Dept. of Economics, University of California, Irvine
Email: yyd@uci.edu

Jiawei Chen, Associate Professor, Dept. of Economics, University of California, Irvine
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David Brownstone, Professor Emeritus of Economics, Dept. of Economics, University of California, Irvine
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