

Zhiyun Jiang

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EDUCATION

- Ph.D. in Economics, University of California, San Diego** 2022 (expected)
Fields: Environmental Economics, Applied Econometrics
- M.S. in Civil and Environmental Engineering, Stanford University** 2014
- B.S. in Civil Engineering and Economics, University of Wisconsin, Madison** 2012

TECHNICAL SKILLS

Causal Inference and Machine Learning

Difference-in-differences, event studies, synthetic controls, regression discontinuity, matching, instrumental variables, double machine learning, regularization, variable selection

Software

Python, R, Stata, SQL, Matlab, ArcGIS

WORK EXPERIENCE

Economist Intern, Amazon Jul. 2021 – Sep. 2021

- Construct queries to obtain data from data warehouse and process data
- Use double machine learning model to analyze impact of sellers' service enrollment on Amazon's business
- Prepare document to summarize analysis results and business recommendation

Junior Professional Associate, World Bank Apr. 2014 – Jun. 2016

- Conduct analysis for technical assistance activity in watershed management investment prioritization to reduce sediment into hydropower projects
- Work with Senior Environmental Economist in developing Note on Green Growth for Bhutan
- Provide Greenhouse Gas analysis for inland waterway project with Environmental Specialist

RESEARCH

Job Market Paper (Impact of Smoke from Fires on Agriculture)

- Examine effect of smoke from fires on agricultural yields of corn and soybean
- Assemble dataset from satellite smoke plumes imaging and county-level information on crop production and inputs
- Use panel data approach to isolate the impacts of smoke exposure on the two main U.S. cash crops

Working Paper (The Role of Ridesharing in Changing Urban Trip Patterns)

- Examine how introduction of ridesharing services such as Uber and Lyft influence trip choice decisions
- Assemble dataset from National Household Travel Surveys and other sources
- Use difference-in-differences framework to analyze the effect of ridesharing entry length on number of trips taken and substitution patterns with buses and rail

Working Paper (The Interaction Relation of Temperature and Precipitation with Outdoor Recreation)

- Using detailed information on over a million outdoor recreation trips in England over a four-year period, implement a semi-parametric response surface approach to look at how temperature and precipitation influence the number and nature of such trips
- Resulting model can be used to examine how different climate change scenarios are likely to alter behavior in a major climate-sensitive sector of the economy