JITING JIANG

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EDUCATION

Ph.D. of Applied Economics, University of California, Davis — Expected 2024
Visiting Research Member at Stanford Center on China's Economy and Institutions (SCCEI)
Coursework: Econometric Methods, Research Design for Applied Microeconomics

Master of Economics, Tufts University — 2016 - 2018
Coursework: Advanced Statistics, Graduate Applied Econometrics

Bachelor of Applied Economics, Harbin Institute of Technology — 2011 - 2015
Exchange Student at (Taiwan) National Yunling University of Science and Technology

TECHNICAL SKILLS

Programming and Tools: Python (numpy, pandas, matplotlib, seaborn, scipy, statsmodels, scikit-learn, econml, pingouin, sqlalchemy), SQL, Stata, LaTeX, Jupyter Notebook, R, Julia, Git, Matlab

Data Skills: Database Querying, Data Wrangling, EDA, Data Visualization, Feature Engineering, Data Governance

Statistical Skills: Hypothesis Testing, Machine Learning (linear regression, LASSO, random forest, k-means, PCA, SVM), A/B Testing, Causal Inference (RCT, matching, DID, IV, RD, event studies, synthetic control)

FEATURED PROJECTS

Predicting Real-world Food Delivery Duration using Machine Learning Models

- Developed machine learning models, including LASSO and Random Forest, to predict food delivery duration
- Performed data preparation, descriptive analysis, feature engineering, and predictive modeling using Python libraries such as numpy, pandas, matplotlib, seaborn, and sklearn
- Skills: Prediction, Exploratory data analysis, Machine learning, Python, Real-world business problem

Assessing Team Composition, Diversity and Team Performance with Big Data

- Collaborated to learn the correlation between research team diversity (both demographic and cognitive diversity) and scientific publication performance in Python
- Integrated large administrative employee data (IRIS UMETRICS) with PubMed publications involving more than 200,000 unique team members from over 60,000 sponsored projects between 2001 and 2019
- Visualized the relationship between the number of publications and different characteristics of PI and team members like age, gender, and occupational classes
- Skills: Statistical modeling, Data linkage, Data visualization, Big data, Python, SQL

Improving Mental Health of Primary School Students in a Randomized Trial

- Evaluated the causal effectiveness of in-class libraries on primary school students' mental health measured by Attention Deficit Hyperactivity Disorder (ADHD)
- Conducted a large-scale Randomized Control Trial (RCT) in rural China from 2017 to 2018
- Reduced ADHD prevalence in sample students by about 30%
- Skills: Experimentation, Data wrangling, Causal inference, Education and health, Project Management

Investigating the Causal Impact of Chinese College Expansion Policies on Mental Health

- Estimated the longer-run effects of increased college opportunities on the mental health of affected cohorts
- Employed a cohort difference-in-differences (DID) strategy with General Social Survey (GSS) data
- Challenged the common perception that higher education improves mental health
- Skills: Causal inference, Data wrangling, Data visualization, Hypothesis testing, Machine learning