JITING JIANG

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EDUCATION

Ph.D. in Applied Economics, University of California, Davis — December 2024
- Visiting Research Member at Stanford Center on China's Economy and Institutions (SCCEI)
- *Coursework: Advanced Statistics; Causal Inference; Econometrics; Machine Learning*

M.S. in Economics, Tufts University — 2016 - 2018

B.A. in Applied Economics, Harbin Institute of Technology — 2011 - 2015

TECHNICAL SKILLS

Certifications: Coursera Machine Learning Specialization, Correlation One Data Science for All

Programming and Tools: Python (NumPy, Pandas, Matplotlib, Seaborn, SciPy, Statsmodels, Scikit-learn, EconML, TensorFlow), SQL, R, Tableau, Stata, LaTeX, PySpark, AWS, Snowflake

Statistical Modeling: A/B Testing, Causal Inference (Diff-in-Diff, RD, Event Studies, Synthetic Control, Causal Forest, Double ML), Machine Learning (Supervised/Unsupervised ML, Neural Networks)

EXPERIENCE

Amazon — Seattle, WA

Economist Intern — Jun. 2024 - Sept. 2024

- Developed a robust modeling framework to measure heterogeneous marketing incrementality, improving the existing channel attribution model with subgroup insights
- Uncovered strategic customer segments with different marketing impacts across channels (e.g., Google Shopping, Meta Paid Social), optimizing targeting and budget allocation
- Applied advanced causal inference techniques (e.g., Double ML, Causal Forest)
- Gained hands-on experience with big data (over 1 billion records), writing production-level PySpark scripts for efficient data sampling and processing run on AWS EMR clusters

Disney Worldwide Services, Inc — Orlando, FL

Decision Scientist Graduate Intern — Jan. 2024 - Jun. 2024

- Led the development and implementation of causal analysis, using Synthetic Control to assess product cross-effects for Disney Cruise Line, influencing strategic decision-making
- Identified, quantified and validated cross-sail effects (with rigorous robustness checks) between 20+ itineraries, improving demand forecasting and model interpretability
- Collaborated closely with product and business teams to ensure aligning modeling processes with business goals and decision-making tools integration
- Presented modeling progress, insights, and results regularly to the cross-effects research workgroups, informing and supporting similar use cases across the organization

SELECTED PROJECTS (More details at https://jitingjiang.github.io)

Mental Health of Primary School Students in a Randomized Control Trial

- Evaluated the causal impact of a large-scale Randomized Control Trial (RCT) on students' mental health
- Applied Causal ML algorithms (Causal Forest) to analyze heterogeneous treatment effects
- Reduced poor mental health rates by about 30%, with a greater impact on baseline disadvantaged students