

JITING JIANG

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EDUCATION

Ph.D. in Applied Economics, University of California, Davis (with STEM OPT) 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

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

EXPERIENCE

Disney Worldwide Services, Inc Orlando, FL
Decision Scientist Graduate Intern Jan. 2024 - Jun. 2024

- Led the development and implementation of causal analysis to understand product cross-effects for Disney Cruise Line, enhancing strategic decision-making
- Identified, quantified and validated significant positive cross-sail effects between itineraries to improve demand forecasting model performance and interpretability
- Created a scientific framework for cross-product effects and regularly presented progress to the cross-effects research workgroup within the Disney Decision Science and Integration (DDSI)
- Facilitated communication with product and business teams to align modeling processes with business goals, integrating results into business tools

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

College Expansion Policies on Well-being using Quasi-experimental Methods

- Employed a difference-in-differences (Diff-in-Diff) strategy with fixed effects to estimate causal impacts
- Used Post-Double Selection LASSO to identify key features for predicting college-going behavior
- Challenged the conventional belief that higher education improves mental well-being

Fraud Detection in Card Transactions using Machine Learning Models

- Utilized ML methods (Logistic Regression, Random Forest, and Gradient Boosting) to predict potential fraud
- Balanced the dataset with SMOTE and addressed duplicate transactions of different types
- Achieved great model performance with a Recall score of 0.982 and an AUC-PR score of 0.993