

HAO-CHE (HOWARD) HSU

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Education

Ph.D. in Economics, University of California-Irvine 2018 -
M.S. in Economics, University of Wisconsin-Madison 2017
B.A. in Economics, National Chung Cheng University 2014

Technical Skills

Programming: Python, PostgreSQL, Java, R, Matlab, Julia, Stata
Skills: Data Science, Structural Modeling, Causal Inference, Classification, Clustering, Regularization, Deep Learning, Generative Models, Natural Language Processing, Times Series Forecasting
Tools: Keras, PyTorch, PySpark, Git, HTML/CSS, AWS SageMaker, GCP/Colab, Markdown, TeX

Work Experience

Data Scientist Intern at Glassbox Learning (Google Research), Google 2022
Economist Intern at Prime Video, Amazon.com 2021

Research Papers

"Understanding Household Choice of Leisure with Time Allocation and Expenditure Measurements"
"Decision Parity on Alternative Credit with Shape Constraints"
"Choice and Backward Spillovers in the Film Industry"
"Refugee Migration During the 2022 Russia-Ukraine War: Evidence from Queer Social Network Users"

Projects

"Product Level Hierarchy Classification with Transformer-based Clustering"
"Community Detection on a Social Network"
"Image Generation with an Introspective Deep Learning Algorithm"
"Random Coefficient Logit Model with MCMC Algorithms"

Honors and Awards

Noyce Fellowship (Noyce Foundation, 2021-2023); 2021-2022 Best Econometrics Paper Prize (Economics Dept., 2022); Government Scholarship to Study Abroad (Taiwan Ministry of Education, 2021-2023); Summer Research Fellowship (Economics Dept., 2020-2022); Graduate Dean's Recruitment Fellowship (UC-Irvine, 2018)

Research Experience

Graduate Researcher in Deep Data Lab with Prof. Matthew Harding 2020 - Present
Research Assistant for Prof. Lorenzo Magnolfi, Alan Sorensen, and Xiaoxia Shi 2017

Teaching

Teaching Assistant for School of Social Sciences at University of California-Irvine 2018 - Present
- Courses: Basic Economics I & II, Corporate Finance, Global Economy, Industrial Organization III, Intermediate Economics III, Probability and Statistics, Quantitative Intermediate Economics I