

HAO-CHE (HOWARD) HSU

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Phone: +1 (608) 960-5450
Location: Irvine, CA

Education

Ph.D. in Economics (STEM), University of California-Irvine (Fields: Econometrics, Machine Learning) Irvine, CA, 2023
M.A. in Economics, University of California-Irvine Irvine, CA, 2019
M.S. in Economics, University of Wisconsin-Madison Madison, WI, 2017
B.A. in Economics, National Chung Cheng University (CCU) Chiayi, Taiwan, 2014

Technical Skills and Languages

Programming: Python, SQL (PostgreSQL), Java, Matlab, Stata, R
ML: NLP, Deep Learning, TS Forecasting, Data Mining (classification, clustering, regression), Regularization, Generative Models
Tools: Git, AWS SageMaker/EC2, Google Cloud/Colab, PySpark, HTML/CSS, \LaTeX

Work Experience

Economist at Amazon.com, Inc. (Intern) Seattle, WA, 2021

Research Experience

Graduate Student Researcher in Deep Data Lab and *Research Assistant* for Prof. Matthew Harding UC-Irvine, 2020 - Present
Research Assistant for Prof. Alan Sorensen. UW-Madison, 2017
Research Assistant for Prof. Xiaoxia Shi. UW-Madison, 2017
Research Assistant for Prof. Lorenzo Magnolfi. UW-Madison, 2017
Research Assistant for Prof. Kang Liu and Prof. Hsiao-Chien Tsui. CCU, 2013-2014

Selected Projects

“Product Level Hierarchy Classification with Transformer-based Clustering”(used Austrian National Bank data) UC-Irvine, 2021
“Community Detection on a Social Network”(used Hornet data) UC-Irvine, 2021
“Image Generation with an Introspective Deep Learning Algorithm”(used CelebFaces attributes dataset) UC-Irvine, 2020
“Natural Language Processing with three Supervised Learning Methods”(used IMDb dataset) UC-Irvine, 2019

Work in Progress

“Choice and Backward Spillovers in the Film Industry”
“Geography of Leisure: Indexing with Expenditures and Time Spending Measurements”
“Decision Parity with Asymmetric loss on Loan Inquiries”

Honors and Awards

Government Scholarship to Study Abroad (GSSA) Taiwan Ministry of Education, 2021
Noyce Fellowship Noyce Foundation, 2021
Economics Department Summer Research Fellowship UC-Irvine, 2020, 2021
Graduate Dean's Recruitment Fellowship UC-Irvine, 2018
Distinguished Scholars Training Program CCU, 2014

Teaching

Teaching Assistant for School of Social Sciences UC-Irvine, 2018 - Present
- Courses: Industrial Organization III, Corporate Finance, Quantitative Intermediate Economics I, Intermediate Economics III, Basic Economics I & II, Global Economy, Probability and Statistics
Teaching Assistant for Department of Economics CCU, 2013
- Course: Game Theory I