Ming-Han Li

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Research Interests

Decision Theory and Game Theory

Education

National Chengchi University(NCCU) *Sep. 2018 - Jan. 2023*

B.S. in Statistics, B.A. in Economics *Taipei, Taiwan*

- GPA: **4.20/4.30, 3.97/4.00**(Cumulative)
- Honors: Received Academic Achievement Awards four times, ranking in the top 5% of students.
- Specialized in **Mathematical Finance**, with coursework in Mathematics, Economics, Statistics, and Finance

Relevant Courses (Courses at the graduate level are highlighted in bold)

Economics & Finance	**Econometrics(I)**, Game Theory, Choice under Uncertainty
Mathematics	**Probability and Measure Theory**, **Real Analysis**, Differential Equation, Advanced Calculus
Statistics	**Advanced Mathematical Statistics**, **Categorical Data Analysis**

Experiences

Research Assistant, National Taiwan University(NTU) *June 2023 - Present*

Advised by Prof. Chen-Ying Huang

- Orchestrated the design, execution, and analytical process of experiments also managing participant recruitment.
- Conducted a comprehensive literature review on Behavioral Economics and the intersection between Behavioral Economics and Machine Learning in Decision Making, synthesizing key insights.
- Developed a Python program with a user-friendly GUI for batch and individual processing of SCR raw data.
- Constructed Python scripts for web scraping, collecting tens of thousands of data points from roughly 45 websites.

Machine Learning Intern *July 2020 - August 2020*

Shanghai Far Eastern IT Co., Ltd *Remote*

- Engineered a Python-based client ranking system aimed at identifying potential default risks.
- Achieved an AUC of 0.76 by employing probabilistic and machine learning models.
- Developed a real-time GUI to facilitate quick predictions on incoming client data.

Club Leader *Sep. 2020- June. 2022*

Mathematics Information Technology Club at NCCU

- Delivered bi-weekly lectures on machine learning and statistics to a group of 20 students.
- Equipped each student with the ability to implement machine learning algorithms in Python.

Selected Projects

Predicting Unemployment Rates during Covid-19 *Feb. 2021 - June 2021*

Term Project for Econometrics(II)

- Investigated the impact of lockdown policies and Covid-19 death toll on unemployment rates through AR and DID models using R.
- Utilized R-Squared and Bayesian Information Criterion (BIC) for model selection.

Explained and Built Gradient Descent Algorithm in R *Feb. 2020 - June 2020*

Term Project for Programming and Statistical Software

- Delivered a comprehensive classroom presentation on gradient descent algorithms, including advanced forms.
- Engineered a gradient descent algorithm in R without using pre-built libraries for gradient descent, designed for optimization over custom multivariate functions.

Skills

Programming and Software	Python, SAS, R, SPSS, LaTeX
Languages	Native in Mandarin; Fluent in English