

Ming-Han Li

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Research Interests

Behavior Economics in Decision-Making 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 Math, Economics, Statistics, and Finance

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

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|--------------------------------|---|
| 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 pilot studies 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.📄

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

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|---------------------------------|---|
| Programming and Software | Python, SAS, R, SPSS, \LaTeX |
| Languages | Native in Mandarin; Fluent in English (TOEFL: 98) |