Ming-Han Li

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Research Interests

Probability Theory, Microeconomics, Game Theory, Decision Theory, Mathematical Finance, Econometrics

Education

National Chengchi University(NCCU) *Sep. 2018 - Jan. 2023*
Bachelor of Science in Statistics
Bachelor of Arts in Economics
Mathematical Finance Program *Taipei, Taiwan*

- GPA: overall: **4.20/4.3, 3.97/4.0**
- Honors: Academic Achievement Awards * 4(Fall '19, Spring '20, Fall '21, Spring '21)
  Taishan Academic Scholarship(Spring '20)
- Related Courses:

  Graduate Level: Econometrics(I) (**A+**), Probability and Measure Theory (**A+**), Real Analysis (**A+**), Advanced Mathematical Statistics (**A-,A+**), Categorical Data Analysis(**A+**)

  Undergraduate Level: Microeconomics (**A+,A+**), Macroeconomics (**A+,A+**), Econometrics(II) (**A+**), Game Theory With Application in Finance (**A+**), An Introduction to Game Theory (**A+,A+**), Public Finance (**A+,A+**), Choice under Uncertainty (**A+**), Financial Derivatives (**A+**), Advanced Calculus (**A+,A**), Differential Equation (**A+**), Application of Differential Equation (**A+**), Complex Analysis (**A+**), Multivariate Analysis (**A+**), Business Analytics : Applications in SAS/R (**A+**)

Projects

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

Term Project for Econometrics(II) *Taipei, Taiwan*

- Aimed at investigating the impact of lockdown policies and Covid-19 death toll on the unemployment rate.
- Developed an AR and DID model using R to predict unemployment rates during Covid-19.
- Compared model performance using R-Squared and Bayesian Information Criterion (BIC) to select the optimal model.

Predicting Bank Defaulting Clients with Logistic Regression *Feb. 2021 - June 2021*

Class Project for Multivariate Analysis *Taipei, Taiwan*

- Built logistic regression models in SPSS to predict bank defaulting clients.
- improved the model significantly by cleaning the data and classifying the discrete variables.
- Evaluated model performance using R-squared, Hosmer and Lemeshow Test, and Wals test.

Estimating GNP with a Regression Model *Feb. 2020 - June 2020*

Term Project for Linear Regression *Taipei, Taiwan*

- Developed a regression model in SAS to estimate Gross National Product (GNP) for various countries. Integrated and cleaned data from various websites with different formats.
- Conducted residual examination and lack of fit test to identify the best regression model.

Experience

Director of Teaching Sector *Sep. 2021 - June 2022*

Mathematics Information Technology Club at NCCU *Taipei, Taiwan*

- 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 and understand the concepts behind each algorithm.
- Independently created teaching materials.

Event General Coordinator, NCCU Pyday
Sep. 2019 - June 2022

National Chengchi University *Taipei, Taiwan*

- Organized and coordinated an annual event that invited python programmers to give applied lectures.
- Scheduled activities and invited speakers to ensure successful and engaging events.
- Successfully attracted 30-50 participants each year and ensured a high level of participant satisfaction.

Intern on Machine Learning
July 2020 - August 2020

Shanghai Far Eastern IT Co., Ltd

- Built probabilistic and machine-learning models to predict potential defaulting clients.
- Created a GUI that enables users to quickly use the model for prediction with new data.

Private Soldier
Feb. 2023 - June 2023

ROC Army, 257 Brigade *Chiayi, Taiwan*

- Served as a grenadier.

Extracurricular Activity

Mathematics Information Technology Club
Sep. 2019 - Jan. 2023

National Chengchi University *Taipei, Taiwan*

- Club that focuses on machine learning and Python.
- Vice Club Leader (Sep. 2019 - June 2020): Assisted the Club Leader in managing club affairs.
- Club Leader (Sep. 2020 - June 2021): Led the club and organized activities.
- Lab Manager (Sep. 2022 - Jan. 2023): Managed the operations of the club laboratory.

Skills

Programming and Software	Python, SAS, R, SPSS, LaTex
Languages	Mandarin (native), English (fluent, TOEFL: 98 (Best Score: 101))