

EDUCATION**University of Wisconsin-Madison**

Ph.D. in Statistics

Sep 2021 – Sep 2024

Madison, WI

University of Washington

Master of Science in Statistics

Sep 2019 – Apr 2021

Seattle, WA

- Cumulative GPA: 3.79/4.0

- Quantitative Coursework: Computer Programming, Statistical Computing, Analysis, Advanced Probability, Statistical Learning, Advanced Regression Methods, Time Series Analysis, Statistical Inference, Dynamic Optimization

National Taiwan University

Bachelor of Arts in Economics Minor in Political Science

Sep 2013 – Jun 2018

Taipei, Taiwan

- Cumulative GPA: 4.19/4.3; Presidency Awards 6 times (Top 5% of class)
- Full scholarship from Taiwan Ministry of Education to study at University of Wisconsin, Madison

PROJECT**University of Washington**

CLASSIFICATION OF IMAGE WITH NEURAL NETWORK PROJECT

Sep 2020 – Dec 2020

Seattle, WA

- Classified CIFAR-10 image data with Pytorch and estimated prediction error with cross validation in a week, prediction error is less than 15% with a new data set of size 30,000.
- Analyzed neural network performance concerning the loss functions and number of neurons.

University of Washington

ANALYSIS OF CROSS VALIDATION THESIS

Mar 2020 – Jun 2020

Seattle, WA

- Surveyed the research on the concentration inequalities associated with k-fold cross validation; introduced stability conditions in terms of the sample size, loss function, and number of folds.

National Taiwan University

PREDICTED THE AMERICAN UNEMPLOYMENT RATE PROJECT

Jan 2018 – May 2018

Taipei, Taiwan

- Modeled the relationships between the American unemployment rate, inflation rate, and average salary with ARIMA (Autoregressive integrated moving average), transfer models, and multivariate models with the implementation of modeling in R.
- Compared the relative efficiencies of these different models and employed established literature to rationalize the model employment in the study.

National Taiwan University

FACTORS INFLUENCING THE SUICIDE RATES OF CITIES

Jan 2016 – May 2016

Taipei, Taiwan

- Employed multivariate models to identify the influences of unemployment rate, family size, demographic structure, and sex ratios on the suicide rates of cities.

EXPERIENCE**Mathematics Tutor**

Sep 2013 – Jun 2019

- Gave in-person instructions and organized study plan to over 30 students to help them better prepare for exams. Stimulated students' learning interests by sharing college life and study-abroad experience.

LEADERSHIP & COMMUNICATION SKILLS**Jessup International Law Moot Court Competition**

Debater

Jan 2016 – Mar 2016

Taipei, Taiwan

- Discussed human rights and national security related topics; obtained Taiwan National Qualifying Rounds, 5th place.

University Helper Team

Head of Events

Jan 2014 – Jan 2016

Taipei, Taiwan

- Led and trained more than 40 college student volunteers from different departments to assist high schoolers in rural areas in Taiwan with college CV revision and mock interviews.
- Increased university admission rate of participating high schools by 35%, and convinced Taiwanese lawmakers to fund future events.

TECHNICAL SKILLS

- **Software Skills:** R, Stata, Python, MySQL, EXCEL, PowerPoint, Tableau, ggplot, C++ (beginning)
- **Languages:** Mandarin Chinese (fluent), English (TOEFL 116/120, Speaking 28), German (beginning).