MIN-YI CHEN

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EDUCATION

National Chengchi University Taipei,Taiwan
B.S. in Statistics, Overall GPA : 4.00/4.00, Ranking : 4/58 Sep. 2020 - Jun. 2023

Central University of Finance and Economics Beijing,China
International Business, Overall GPA : 81.74/100.00 Sep. 2018 - Jun. 2020

PUBLICATION AND WORKING PAPER

Ting-Li Chen, Elizabeth Chou, Min-Yi Chen and Fushing Hsieh (2022). Dynamic characteristics of Covid-19 daily infection rates across administrative districts and their age-groups in Taiwan.[*Paper*] [*Shiny*]

RESEARCH EXPERIENCE

Institute of Statistical Science, Academia Sinica Jun. 2022 - Present
Part-time Research Assistant *Employer Dr.Ting-Li Chen*

· Smoothing and visualizing data with R and RShiny for research in human behaviour behind Covid-19.
· Study MCMC under the guidance of Dr. Ting-Li Chen.

Ministry of Science and Technology Research Project Feb. 2022 - Feb. 2023
Undergraduate Researcher *Advisor Dr.Han-Ming Wu*

Title : On the estimation of the weight parameters of the multi-SNE using the gradient descent [*Paper*] [*Code*]
· Designed an objective function for parameters estimation and prove the method converges at the rate of $O(1/k)$.
· Conducted experiments on synthetic and real data sets to show the effectiveness and robustness of my method.

WORKING EXPERIENCE

Institute of Statistical Science, Academia Sinica Feb. 2022 - May 2022
Data Science and Statistic Cooperative Intern

· Used Statistical Method and Visualizing Skills to analyze real data from industry.
· Analyzed and predicted the edge up Covid cases in Taiwan with time series methods.

PROJECTS

Is manifold learning reversible ? Jun.2022 - Present
https://ccminyi.github.io/manifold.html

Designed an experiment on reversibility in manifold learning with the Swiss Roll dataset.

I have some preliminary results but the thickness of the Swiss Roll is thinner than expected.

League of Legends - Analysis and Prediction Dec.2020 - Jan. 2021
https://github.com/CCMinyi/LOL-DS-Analysis-Prediction

· Analyzed winning factors and predicted match outcomes with Decision Tree, Naive Bayes, Ransom Forest, and SVM; Evaluated the performance with cross-validation, accuracy, AUC ,and various metrics.

Developed interactive visualizing results via **R** and **Shiny**
· Voted the best project out of 12 groups in Data Science class.

HONORS/AWARDS

Academic Excellence Award(top 5% of class in semester) May 2022
Taishan Academic Scholarship Oct 2021
Certificate of Merit in Calculus A General Examination Jan 2021
(Ranked seventh among all students in the university.)

RELEVANT COURSES

Topics in Mathematical Statistics (PhD course)
Textbook: Mathematical Statistics by Jun Shao

Real Analysis (midterm score : 90)
Textbook : Real Analysis Fourth Edition by H.L.Royden and P.M. Fitzpatrick

Probability and Measure theory
Textbook : The Theory of Probability by Santosh S. Venkatesh, Cambridge University Press

Bayesian decision analysis and Bayesian network

Image Processing

Nonparametric Function Estimation

Mathematical Statistics

PyTorch and Machine Learning

Multivariate Analysis

Regression Analysis

Time Series Analysis

Data Science

LEADERSHIP

Google Developer Student Club, NCCU Sep. 2020 - Jan. 2021
Team leader of recommender system group

· Led my team to build an item-based recommender system with matrix factorization and deep-learning methods.

Tennis Club, CUFE Sep. 2019 - July. 2020
President

· Host a school-level tennis tournament and participate in over 100 divisions.