

Glenn Fung

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Education

The University of Birmingham

2020–2024

B.S. with Class I Honors in Applied Mathematics with Economics

Jinan University

2020–2024

B.Econ. in Economics

Research Experience

Research assistant for Professor David Ong

2023–2024

- Work included replication, algorithm construction, numerical computation, data collection, preprocessing, and manipulation, preliminary research, machine learning algorithm implementation, literature review, and translation.
- Topics included behavior & experimental economics (consumer behavior, gender differences in competitiveness, marital search and matching), labor economics (beauty premium), and financial economics (market microstructure).

Mapping Violence Against Women and Girls

2023–2024

- Focused on the Bradley–Terry model with application to the exposure of violence against females.
- Summarized and explored the relationship between different approaches in non-math academia to assess the reliability of data and proposed improvements.
- Used DPMM with CRP representation and Gibbs–type MCMC to cluster judges according to reliability.

Statistical insider trading detection mechanism

2023–2024

- A novel statistical method to detect the systematic earliness of persistent insider trading.
- Focusing on aggregated rankings of cumulative ratios (e.g., *CARR*) for detection and random ratios as benchmarks to distinguish random effects for analysis.

Contest theses

2022–2023

- Meritorious Winner in 2022 & 2023 COMAP Mathematical Contest in Modeling.
- In 2022, we designed multi-asset portfolio strategies to maximize smooth profits with statistical characteristics, utilizing LSTM neural network time-series analysis and dynamic programming.
- In 2023, we used time-series and panel data analysis techniques, generalized linear models, support vector machine, *k*-means clustering, and Hodrick-Prescott filter to analyze Wordle website data, recognize patterns, make predictions, and design management strategies.

Teaching Experience

Jinan University

Introduction to Microeconomics, TA for Professor David Ong

Spring, 2022

Intermediate Microeconomics, TA for Professor David Ong

Fall, 2022

Awards & Scholarships

Merit Student Award (Jinan)

2023, 2021

Summer Undergraduate Research Bursary (Birmingham)

2023

Academic Rising Star Scholarship (J-BJI)

2023

Second-Class Merit Student Scholarship (Jinan)

2022

Merit Student Leader Award (Jinan)

2022

Other Activities

Jinan University & The University of Birmingham

Secretary of 2023–2024 J-BJI undergraduate dissertation defense

2023

Member of Students' Art Group of Jinan University (Minister from Sep. 2021 to Sep. 2022)

2020–2024

Member of Theater Club of J-BJI

2020–2021

Computer Skills & Languages

Frequently Used Tools: Stata, R, Python, LINGO, \LaTeX & TikZ, (proficient); MATLAB, Julia, HTML (intermediate).

Other Tools: SPSS, Mathematica, NetLogo, Gephi, ImageJ, OpenPose, Adobe PS/AU/LR/PR.

Languages: Cantonese, English, Mandarin, Spanish, Japanese (in proficiency order).