

Glenn Fung

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Education

The University of Birmingham <i>B.S. with Class I Honors in Applied Mathematics with Economics</i>	2020–2024
Jinan University <i>B.Econ. in Economics</i>	2020–2024

Research Experience

Research assistant for Professor David Ong	2023–2024
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• A novel statistical method to detect the systematic earliness of persistent insider trading.• Focusing on aggregated rankings of cumulative ratios (e.g., <i>CARR</i>) for detection and random ratios as benchmarks to distinguish random effects for analysis.	
Contest theses	2022–2023
<ul style="list-style-type: none">• 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, <i>k</i>-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, & Grants

Merit Student Award (Jinan)	2023, 2021
Summer Undergraduate Research Bursary (Birmingham, £1,688)	2023
Academic Rising Star Scholarship (J-BJI)	2023
Second-Class Merit Student Scholarship (Jinan)	2022
Merit Student Leader Award (Jinan)	2022
Innovation and Entrepreneurship Training Program for Undergraduates Grant (Guangdong Province, ¥10,000)	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).