

Zixuan FU (May)

EDUCATION

- **Toulouse School of Economics** France
PhD in Economics Sep 2024 - June 2028 (expected)
- **Toulouse School of Economics** France
Master in Economic Theory and Econometrics: empirical econometrics, game theory, optimization Sep 2023 - Aug 2024
- **The Hong Kong University of Science and Technology** Hong Kong SAR
Bachelor of science in Mathematics and Economics; GPA: 3.8/4.3; First Class Honor Sep 2019 - June 2023
- **École Polytechnique Fédérale de Lausanne (EPFL)** Switzerland
Exchange at the School of Mathematics Sep 2022 - Feb 2023

ACADEMIC PROJECTS

- **“L’Hôpital (selection) rule”: An empirical Bayes application to French hospital efficiency** Tail selection of the top performing French hospitals in terms of labor efficiency by incorporating empirical bayes method while controlling for false discovery rate. Utilized convex optimization software MOSEK and empirical bayes package REBayes.
- **Why are some degrees worth more than others?: The earning differences across fields of study** A dynamic choice model in repeated game where 3 players (student, institution and employers) interact in 2 stages (study, work) of each period.
- **Exploratory Research with Filipina Domestic Workers in Hong Kong** Participated in a pilot research project on the social, financial and health condition of migrant domestic workers in Hong Kong. Assisted in the weekly qualitative and quantitative field study. Collected information and drew insights from focus group discussions and questionnaire responses.

EXPERIENCE

- **Research Assistant** HKUST
Prof. Edwin Lai, Economics Department May 2022 - Aug 2023
 - **International payment and currency choice** Performed data wrangling and modeling (gravity, multinomial regression) in **R**. Assisted in proof checking. Attended biweekly meeting.
 - **Belt and road initiative and RMB payment report** Updated previous results with latest data in **Stata** for Prof.Lai’s midterm progress report submission.
- **Data Analyst Student Helper** HKUST
Office of Institutional Research Jun 2021 - Dec 2021
 - **Data analysis** Conducted sentiment analysis and topic modelling in **KNIME**. Analyzed students’ (anonymous) evaluation of university teaching.
- **Business Analyst Intern** Jebsen Group
Group of digital solutions and business process Jun 2022 - July 2022
 - **Business process** Performed customer segmentation analysis in **Python** and data visualization in **Power BI** for marketing. Involved in a demand forecasting and budget management project.
 - **Internal teamwork management** Improved project reporting procedure by creating centralized team website and re-organizing internal documents. Explore potential use cases of Microsoft PowerApps.

HONORS AND AWARDS

- **TSE PhD track master student fellowship**
- **The 17th Mathematics Epsilon Fund Award in 2022**
- **University’s Scholarship Scheme for Continuing Undergraduate Students in 2022**
- **Dean’s List**

LANGUAGES AND SKILLS

- **Languages** Chinese Mandarin (Native), Cantonese (Proficient), French (Fluent), English (Fluent)
- **Skills** R, Python, L^AT_EX, Stata, Game theory
- **Interests** Hiking, Planning, Communication, Podcast

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