

Zhang Xiaojie

Nanyang Technological University, Singapore
XIAOJIE001@e.ntu.edu.sg

EDUCATION

M.SC.Econs (Managerial Economics), Nanyang Technological University, GPA: 4.9/5.00 **Jan 2021 — Present**

- Awards and Honors: Gold Award of Director's List of Class 2022 (Top 1)
- Main Courses: Time Series Analysis and Forecasting, Data Science for Economists, Data Analysis, Financial&Risk Analytics.

B.SC.Econs (International Economics and Trade), Shandong University, GPA: 85.91/100 **Sep 2016 — Jun 2020**

- Awards and Honors: Distinguished Student of Class 2020, Korean Government Visiting Student Scholarship.
- Main Courses: Microeconomics, Macroeconomics, Econometrics, Advanced Mathematics and Statistics

RESEARCH EXPERIENCE

The Unlicensed Moneylending Market Project, under Prof Leong Kaiwen, NTU **Jan 2021 — Present**

- Learned and applied empirical industrial organization methodology to understand and analyze relational contracting in an under-researched market: the unlicensed moneylending industry.
- Used STATA to clean data, produce summary statistics, run regressions and do robustness checks for a complex dataset. Applied LaTeX to generate results and analysis tables.

Research on Financial Resources and Economics Decision-Making, under Prof Li Huailu, Fudan University **May 2021 — Present**

- Contributed to the literature review by studying papers on the causal effects of poverty on time and risk preferences.
- Prepared data for analysis by extracting information from surveys and transforming free-form text inputs into numerical variables. Cross-checked and corrected survey data for contradictions and inconsistencies.
- Produced more than 200 tables to check conclusions of existing literature and explore new conclusions.

Earthquake Prediction Kaggle Competition **Aug 2021 — Nov 2021**

- Utilized Python and machine learning methodology to build the most accurate and efficient earthquake prediction model.
- Led data pre-processing and model evaluation. For example, addressed curse of dimensionality by PCA, Feature Selection, and Target Encoder and wrote Python coding for ROC curve in case of 3-class classification.

Television Industry Market Research, Student Research Training Program under China's Ministry of Education **Sep 2017 — May 2018**

- Analyzed the price elasticity of television to determine the economic feasibility of applying technology to transform television.
- Reviewed background information, designed surveys and collected data from over 800 consumers.
- Used SPSS to clean data, produce summary statistics and to analyze data. Provided recommendations to the television industry.

WORKING PAPERS AND PUBLICATIONS

Going Public: How Listing Influences the Innovation Behavior of SMEs (ME6999 Capstone Paper) **Aug 2021 — Present**

- An empirical study to determine the net effect and mechanism of going public on GEM-listed firms' innovation performance by applying OLS, fixed effect and interaction term.
- Applied Python to scrape millions of patent-level data from CNKI which has complex anti-scraping mechanism. Utilized MySQL and Stata to compile, clean, match and merge data. The dataset consolidated is more detailed and covers longer periods than existing literature.

The Sino-US Conflict: The Behavior of Chinese Foreign Trade Enterprises (Published) **Sep 2019 — Apr 2020**

- Published in Consumer Journal, a national-level academic journal sponsored by China's National Light Industry Council.
- Using China Customs Data(CCD), I applied the Product Life Cycle Theory to analyze China foreign trade enterprises during the period of Sino-US trade friction and increasing anti-globalization sentiment.

TEACHING EXPERIENCE

Tutor for HE3024, Python Theory and Application (Extra Course), NTU **Jun 2021 — Dec 2021**

Teaching Assistant for ME6102, Data Science for Economists, NTU **Jan 2022 — Present**

TECHNICAL SKILLS

- Python, Stata, R, MySQL, HTML, CSS, LaTeX and Matlab(studying).