

# LI, ZHIYU

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## EDUCATION

### **LONDON SCHOOL OF ECONOMICS, DEPARTMENT OF STATISTICS**

**LONDON**

*Master of Science in Statistics (Social Statistics)*

*Sept 2021 - July 2022*

**Grade:** Distinction (1<sup>st</sup> Class)

### **NANJING UNIVERSITY, SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES**

**NANJING, CHN**

*Bachelor of Art in Sociology*

*Sept 2017 - June 2021*

**GPA: 4.53/5 | Rank: 2/34**

### **NATIONAL TAIWAN UNIVERSITY, COLLEGE OF SOCIAL SCIENCES**

**TAIPEI**

*Exchange Student of Sociology*

*Sept 2019 – Jan 2020*

**Grade:** 4 A<sup>+</sup>, 2 A | 4.23/4.3

## RELEVANT COURSES

**STATISTICS:** *Multivariate Methods, Causal Inference, Statistical Inference, Generalized Linear Model (LSE), Applied Statistics with R (Nanjing U.), Social Statistics (N. Taiwan U.)*

**AI&DS:** *Distributed Computing for Big Data, Artificial Intelligence (LSE), Intro. To D.S. with Py., Applied ML. with Py., Applied Plotting, Charting & Data Representation in Py. (U. Michigan, Online)*

**OTHERS:** *Mathematical Optimization (LSE)*

## PROJECT EXPERIENCES

### **LSE EARTHQUAKE DETECTION CHALLENGE, IBM & STATS DEPT.**

**LONDON**

*Core Member*

*Jan – Mar 2022*

- Executed as the core member in building, training, testing DNN model and customizing DNN model components mainly with keras.
- Picked up knowledge and tools of ML in seismology within 2 months and got familiarized with the DL pipeline.
- Won the 1<sup>st</sup> prize with a successful implementation of a DL model in earthquake detection with an F1 score of 0.96. [\[LINK\]](#)

### **LSESU TWO-DAY DATATHON, TRUECUE & LSE DS SOCIETY**

**LONDON**

*Author*

*Mar 2022*

- Developed an automated HR consultant for dealing with the increased turnover rate with R from scratch within 27 hours.
- Implemented stepwise selection method to get the most plausible logistics model for explaining and decision tree for predicting.
- Devised a “difficulty index” to help HR take action in avoiding employees resigning. Got 2<sup>nd</sup> prize in the competition. [\[LINK\]](#)

### **SINO - GERMAN INSTITUTE OF SOCIAL COMPUTING**

**NANJING**

*Person in Charge of the Group Project*

*Oct 2020*

- Hosted a project quantitatively studying news reports about Covid-19 in the international program.
- Collected data of daily records about the intensity and tone of news about China from presses of 46 European countries from GDELT.
- Processed and visualized the data with numpy, pandas, matplotlib and sklearn of Python to study China’s national figures. [\[LINK\]](#)

### **EXECUTION GROUP OF GENERAL CAMPUS SURVEY OF NTU**

**TAIPEI**

*Core Member*

*Sept 2019 – Dec 2019*

- Worked as a core member in the campus survey of Taiwan University to execute the survey and do research about political behaviours.
- Designed questions about students’ political behaviour during demonstrations in Hong Kong and interviewed 13 students out of 715.
- Presented the results of the stimulus for students’ different political reactions rendered by Stata and described party preference.

### **PROVINCIAL TEAM OF COLLEGE STUDENT TRAINING PROGRAM**

**NANJING**

*Project Leader*

*Nov 2020*

- Led the psychological experiment for examining the validity of public decorations with national symbols.
- Designed experiment under the counterfactual framework, recruited 54 participants and designed a randomized distribution program.
- Conducted ANOVA and Rank-Sum analysis with Stata to detect whether the public hanging of national flags matters.

## RESEARCH EXPERIENCE

### **TERM PAPER, DEPARTMENT OF SOCIOLOGY**

**NANJING**

*Jan 2020 – June 2020*

- Paper entitled “Inclusive or Exclusive: Dual Identity and Divergence of Attitudes Towards Immigrants in Taiwan” (In English).
- Used Instrumental Variable Model to examine the impact of identity on people’s attitudes towards immigrants in Taiwan.
- Won the 2nd Grade Award in the 23rd Forum of Science & Art of NJU,2020 with the essay.

## **GRADUATION PAPER, DEPARTMENT OF SOCIOLOGY**

**NANJING**

*Jan 2021 – April 2020*

- Paper entitled “Varieties of Popular Social Trust in China” (In Chinese).
- Used latent class analysis to explore the patterns of social trust to different subjects, which is motivated by the idea of characterizing population heterogeneity with UML in *Machine Learning in Sociology* (Molina & Garip, 2019, *Annu Rev Sociol*).

## **LEADERSHIP&ACTIVITIES**

### **RESEARCH ON POVERTY ALLEVIATION AND TOURISM INDUSTRY**

**Ji'AN, CHN**

*Head of the Survey Group*

*Aug 2018*

- Liaised with local parties, planned the research and wrote a report in the program about poverty alleviation and the tourism industry.
- Consulted the local archives centre and library for general knowledge in advance, and interviewed local residents and civil servants.
- Wrote a final report exceeding 10,000 characters, in which the local tourism industry was analyzed and solutions were proposed.

### **“REFORMING UZ” CASE STUDY, YOUTH UNION OF UZ**

**TASHKENT & SAMARKAND, UZ**

*Core Member*

*Aug 2019*

- Collected research material, designed analyzing framework and drafted the case report in the “Reforming Uzbekistan” case contest.
- Gathered data from the World Bank, IMF and State Committee of Statistics to know the fundamentals of the country.
- Delivered a speech about our suggestions for business and industry development based on study results in a comparative framework.

## **AWARD**

### **ACADEMIC AWARD**

- 2<sup>nd</sup> Grade Award in the 23<sup>rd</sup> Forum of Science & Art of NJU, 2020
- 2<sup>nd</sup> Grade Award in the 24<sup>th</sup> Forum of Science & Art of NJU, 2021

### **HONOUR & SCHOLARSHIP**

- People’s Scholarship, NJU (2020, 2019, 2018)
- Excellent Student, NJU (2018)
- Elite Scholarship, NJU (2018)

## **OTHERS**

### **COMPUTER SKILLS**

- **Python (scipy, tensorflow, OOP):** Fluent
- **R:** Fluent
- **SQL:** Fluent
- **Excel, Word, PowerPoint:** Fluent
- **Hadoop & Spark:** With experience
- **LaTex:** With experience