Ziyu SHU

TEL: +1 (510) 220 8964   Email: zs381@georgetown.edu

EDUCATION

Georgetown University *McCourt School of Public Policy*   *2025.8-2027.5*

Master of Science in Data Science for Public Policy

- Awarded the Georgetown University graduate merit-based financial aid in 2025.

Peking University *YuanPei College*   *2020.9-2025.7*

Major in <u>International Politics</u>, GPA: 3.67/4.0 | Multidisciplinary: <u>Computational Social Science, Sociology,International Law</u>

Advanced Course: Text Mining for Social Science Computation(96.5), Big Questions in Political Analysis(Grad course,93), American Government and Politics(Grad course,90), Econometrics, Computational Practices for Social Science Research

- Awarded a scholarship of the Brilliant Undergrad Research of Yuanpei College in 2023.
- Awarded a scholarship for outstanding performance in general education at Yuanpei College in 2023.

University of California, Berkeley *Global Access Program*   *2023.1-2023.6*

Emphasis: <u>Political Science,</u> GPA: 4.0/4.0 | *Course includes: Ethnic Politics (PhD Seminar), Public Opinion, Gender Study*

INTERNSHIPS

U.S.-China Business Council, Beijing Office | Business Advisory Services   *Beijing 2025.2-2025.8*

- Authored 80+ media sweep reports covering daily U.S.-China relations and government updates.
- Researched and analyzed developments in the Greater Bay Area and China's AI+ Initiative.
- Summarized high-level officials' changes in PRC Government.
- Assisted with event coordination, meeting notes, and document translation.

Deloitte | Digital Consulting   *Beijing 2024.5-2024.8*

Conducted product design for the Integrated Data-enabled User Operation System for FAW TOYOTA MOTOR CO.,LTD.

- Independently wrote over 200 pages documents including UI design and system data transfer details for software product design based on the client's real-time changing needs.
- Collaborated closely with front-end & back-end developers to create and test the product until successfully deployed into production.
- Worked with UI designers *in Figma* to refine the product.
- Processed thousands of production data entries to generate monthly reports and visualizations *in Excel*.

ACADEMIC RESEARCH EXPERIENCE

Research Assistantship *in McCourt School Public of Policy, Better Government Lab*   *2025.9-2026.5*

- Collect, standardize and analyze data and review academic literature. Explore variables and establish large- scale dataset.
- Manage projects and junior researchers.

Undergraduate Thesis: State Alliances and War Predictions   *2024.11-2025.5*

Built a Temporal Heterogeneous Graph Neural Network using COW alliance and war datasets (1816–2012) to model the evolving network of state relationships. The model captures how alliances both deter and spread wars, showing strong predictive performance for annual war occurrence.

Independent Project *in Computer Science Department of Peking University*   *2023.9-2024.1*

Collected comments related to the Israel-Palestine conflict from major Chinese social media platforms using a crawler and performed text preprocessing *in Python*.

- Employed the TextCNN neural network model and LDA topic model, combined with an external annotated dataset, for

classifying and comparing positive and negative comments.

- Further analysis involved using K-MEANs for keyword extraction and scatter plot clustering.

Research Assistantship *in UC, Berkeley with Prof. Leonardo R. Arriola*   *2023.6-2023.9*

Undertook data cleaning and constructed a comprehensive large-scale panel dataset for a Political Economy empirical research.

- Compiled Sovereign Credit Rating data from the top three rating agencies for over 190 countries and regions spanning 70 years, incorporating XSL transformation.

Group leader of Undergraduate Independent Research *in Peking University*   *2022.11-2023.5*

Research on how the *Institute for the Study of War* conducted precise intelligence on the Russia-Ukraine War.

- Developed a crawler *in Python* to download more than 300 open-source reports while extracting citations from every report.
- Conducted statistics and visualization on the media sources cited in the report *using R*.

TEACHING

Discussion Leader of Social Science Reading Seminar *in Yuanpei College*   *2023.3-2023.5*

- Organized a seminar reading *Coconut Colonialism: Workers and the Globalization of Samoa* written by Holger Droessler to interpret this historical anthropology monograph from various social science perspectives.

Teaching Assistant of Freshman Seminar *in Peking University*   *2022.9-2022.12*

- Assisted in teaching the introductory course on Rousseau's Social Contract by Assistant Professor Liang Pang (pangliang0602@pku.edu.cn) in the School of Government.

INTERNATIONAL ACTIVITIES

Jing Forum *with University of Tokyo*   *2021.8-2023.1*

- As the section leader, proposed and organized the seminar of the topic 'Governments, Markets, and Individuals' in English. Led discussions on how institutional political factors impact the young generation both in China and Japan.
- Invited to a lunch meeting with former Japanese Ambassador to China *Tarumi Hideo* to discuss how Chinese youth can contribute to China-Japan diplomatic relations.

EPIIC International Symposium *with Tufts University*   *2022.3-4*

- Discussed the topic 'Problems Without Passports', presenting how official censorship impact Chinese social media.

The Yale Hackathon International Competition of Public Policy *with Yale University*   *2022.2*

- As the group leader, led teammates to write a public policy proposal on Afghan female refugees protection in English.

PUBLIC SERVICE

Volunteer for National Foreign Affairs Events   *2024.6*

As the volunteer of *the 70th Anniversary Summit of China's Five Principles of Peaceful Coexistence*.

- Coordinated with the Ministry of Foreign Affairs and served in guest reception assisting in the progression of the meeting.

MISCELLANEOUS

Languages   Mandarin (*Native*); English (*Proficient*); French(*Basic*); Spanish(*Basic*).

Programming Languages   SPSS, for basic data statistics.
Stata, for basic data statistics.
R, for data acquisition, processing, and visualization.
Python, for social network analysis, text mining, machine learning, and web crawler.