MIN SHI

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Education

The University of Texas at Dallas **August 2019 – 2024** *(Expected)**
Ph.D. Candidate in Political Science, Major International Relations, Minor Political Institutions and American Politics *GPA: 3.924/4.0*

The University of Texas at Dallas **August 2021 – 2024** *(Expected)**
M.S. in Business Analytics *GPA: 4.0/4.0*

The University of Texas at Dallas **August 2021 – 2024** *(Expected)**
M.S. in Social Data Analytics and Research *GPA: 3.924/4.0*

The University of Texas at Dallas **August 2019 – May 2022**
M.A. in Political Science *GPA: 3.917/4.0*

Shandong University **September 2016 – June 2019**
M.L. in International Politics *GPA: 88.78/100*

Daito Bunka University **September 2017 – August 2018**
Exchange Student in Political Science

Shandong University **September 2012 – June 2016**
B.A. in Japanese *GPA: 87.37/100*

Research Experience

School of Economic, Political and Policy Sciences, UTD *Research Assistant* **May–August 2022**
↪ Prof. Jessica Hanson-Defusco

- Initialized a database about over 200 nations' COVID-19 governmental responses in relation to Ebola preparedness
- Accomplished a cross-cultural corruption analysis using regression and t-tests based on a collection of 1212 cross-country surveys

School of Economic, Political and Policy Sciences, UTD *Research Assistant* **May–August 2021**
↪ Prof. Thomas Gray, Prof. Banks Miller

- Carried out research of U.S. Supreme Court cases
- Performed highly accurate, detailed data collection of all cases' schedules and basic time gap analysis

School of Economic, Political and Policy Sciences, UTD *Research Assistant* **May–August 2020**
↪ Prof. Jonas Bunte

- Collaboratively researched on the benefits connection among U.S. government officers, senators, representatives, and U.S. firms
- Conducted detailed data analysis to detect potential financial and social connections

Conferences

2022 APSA Annual Meeting & Exhibition — Montral, Qubec, Canada **September 15-18, 2022 (upcoming)**
Framing 2018 U.S.-China Trade War during the Trump and Biden Eras

2022 ISDSA Meeting — Hybrid meeting in China, U.S. and on Zoom **May 31-June 1, 2022**
Modeling U.S.-China Trade Relations: A Time Series Machine Learning Approach Using MNC Stock Data

Publications

Yang Luhui, Shi Min. 2020. An Analysis of the Causes of Shinzo Abe's Policy Evolution and Adjustment towards China. *Journal of China's Neighboring Diplomacy.* Vol.7, No.2. (upcoming).

Yang Luhui, Shi Min. 2019. China Policy Adjustment or Changes by the Abe Administrations and Its Impacts. *Peace and Development.* No.3, pp.66-84.

Data Analytic & ML Projects

Modeling U.S.-China Trade War's effect on MNCs (ML & Time-Series Approach) **January - May 2022**

- A project aimed at exploring how the U.S.-China trade war affects Multinational Corporations (MNCs) through a ML content analysis of policy changes and a time series GARCH modeling approach using stock data
- Utilized R in tweets and stock data extraction, applied Pandas & NumPy in data cleaning and datasets generation
- Generated a U.S.-China trade database consisting of comprehensive macro and micro data in PostgreSQL, extracted data from database through R & Python, visualized data in R Shiny app & Jupyter Lab, evaluated the correlation among multiple variables with MNCs' operating status utilizing statsmodels, SciPy, and scikit-learn packages
- Deployed Stata in building GARCH model evaluating effect of tariff rates changes on MNCs' revenue & volatility

Content Analysis of News Coverage about U.S.-China Trade War **August - May 2022**

- A project focused on how news organizations frame the 2018 U.S.-China trade war during Trump and Biden Eras
- Collaborated with programming to optimize data collection and ensure data quality, collected over 500 sampled news coverage from both U.S. and China sides
- Utilized machine learning skills such as top modeling, classification *&* sentiment analysis and time-series statistical analysis in exploring the differences in media coverage and the tendency in sentiment changes in China and the U.S. news reports

COVID-19 Worldwide Cases Synchronous Dashboard using Tableau **December 2021 - January 2022**

- Designed a synchronous Tableau dashboard with advanced interactive functions to explore the COVID-19 severity
- Built a Tableau story to dig into the factors affecting the severity of COVID-19 by country and found out the deep connection between multiple aspects of factors with COVID-19 severity

Data Visualization and Correlation Analysis with Multiple Tools **September - December 2021**

- A project aimed at exploring the factors that affect World Happiness Index by country
- Utilized Python and R in data collection and data cleaning processes
- Deployed Python, R, R Shiny and Plotly Dash in exploring correlation among variables and visualizing the correlations

Selected Course Work

Data Science	Data Analysis	Statistical Methods
Programming for Data Science	OOP in Python	Introduction to Quantitative Methods
ML for Socio-Eco and Geo-Referenced Data	Information Management	Applied Regression
Content Analysis using ML	Data Visualization	Social Science Research Methodology
Applied Data Science with Python	Applied Data Analysis	Regression and Multivariate Analysis

Technical Skills

Programming Languages *&* Tools	Python, R, SQL, Stata, LaTeX *&* TeX; MySQL, PostgreSQL, Tableau, Shiny, Microsoft Office (Excel, Access, Visio, etc.)
Data Analytic Skills	Data Collection, Data Analysis, Data Visualization, A/B test, Information Management, Quantitative Research *&* Machine Learning
Certificates	NCR Examination Certificate of Level 2 – Access Database Programming
Languages	English, Chinese, Japanese

Career Goals

Being equipped with data analytic skills using Python, R, SQL & Stata, familiar with multiple industry analytical visualization tools, e.g., Tableau, Shiny, R Markdown Dashboard, and having abundant experience with statistical research methods, I focus on utilizing machine learning and quantitative statistical research skills to explore the mutual effect between the U.S. trade policies and the big firms' operations within the context of U.S.-China trade. My career goal is to become a researcher in this area or a professional data scientist in the industry.