

MIN SHI

Dallas, TX ◇ 469·403·7557 ◇ Min.Shi@utdallas.edu ◇ [GitHub](#) ◇ [LinkedIn](#)

Education

The University of Texas at Dallas Ph.D. Candidate in Political Science, Major International Relations, Minor Political Institutions and American Politics	August 2019 – 2024 (<i>Expected</i>) GPA: 3.917/4.0
The University of Texas at Dallas M.S. in Social Data Analytics and Research	August 2021 – 2024 (<i>Expected</i>) GPA: 3.917/4.0
The University of Texas at Dallas M.A. in Political Science	August 2019 – May 2022 GPA: 3.917/4.0
Shandong University M.L. in International Politics	September 2016 – June 2019 GPA: 88.78/100
Daito Bunka University Exchange Student in Political Science	September 2017 – August 2018
Shandong University B.A. in Japanese	September 2012 – June 2016 GPA: 87.37/100

Research Experience

School of Economic, Political and Policy Sciences, UTD <i>Research Assistant</i> ↔ Prof. Jessica Hanson-Defusco	May–August 2022
• Generating a database about COVID-19 governmental responses in relation to Ebola preparedness of 249 WHO-reporting nations & regions in the systemic and institutional government learning in post-epidemic settings	
School of Economic, Political and Policy Sciences, UTD <i>Research Assistant</i> ↔ Prof. Thomas Gray, Prof. Banks Miller	May–August 2021
• Conduct research of U.S. Supreme Court cases	
• Perform highly accurate, detailed data collection of all cases' schedules and basic time gap analysis	
School of Economic, Political and Policy Sciences, UTD <i>Research Assistant</i> ↔ Prof. Jonas Bunte	May–August 2020
• Collaboratively conduct research on the benefits connection among U.S. government officers, senators, representatives, and U.S. firms	
• Perform detailed data analysis to detect potential financial and social connections	

Conferences

2022 APSA Annual Meeting & Exhibition — Montral, Qubec, Canada Framing 2018 U.S.-China Trade War during the Trump and Biden Eras	September 15-18, 2022 (upcoming)
2022 ISDSA Meeting — Hybrid meeting in China, U.S. and on Zoom Modeling U.S.-China Trade Relations: A Time Series Machine Learning Approach Using MNC Stock Data	May 31-June 1, 2022

Publications

Yang Luhui, Shi Min. 2020. An Analysis of the Causes of Shinzo Abe's Policy Evolution and Adjustment towards China. <i>Journal of China's Neighboring Diplomacy</i> . Vol.7, No.2. (upcoming).
Yang Luhui, Shi Min. 2019. China Policy Adjustment or Changes by the Abe Administrations and Its Impacts. <i>Peace and Development</i> . 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 topic 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

Programming for Data Science
ML for Socio-Eco and Geo-Referenced Data
Content Analysis using ML
Applied Data Science with Python

Data Analysis

OOP in Python
Information Management
Data Visualization
Applied Data Analysis

Statistical Methods

Introduction to Quantitative Methods
Applied Regression
Social Science Research Methodology
Regression and Multivariate Analysis

Technical Skills

Programming Languages & Tools

Python, R, SQL, Stata, L^AT_EX & T_EX; 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.