

Min Shi

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EDUCATION

The University of Texas at Dallas

December 2024

Ph.D., Political Science

GPA 3.942

M.S., Social Data Analytics and Research (STEM)

GPA 3.942

M.S., Business Analytics (STEM) – Data Science Track

GPA 4.0

Graduate Teaching / Research Assistantship; John Forrest Kain Scholarship; Government and Political Science Scholarship

WORK EXPERIENCE

School of Economic, Political & Policy Sciences at UTD, Richardson, TX

Research Assistant

May 2020 – Present

- Conduct survey and web data collection, data cleaning, model building, statistical analytics, and report writing for multiple collaborative research projects related to global health, political economy, and public policy
- Supervise undergraduate research assistants to ensure project completion, independent work, efficient collaboration, and adherence to deadlines

Lucion Technology Corp., Ltd., China

Database Management Intern

July 2017 – August 2017

- Collaborated with IT department manager to manage enterprise users' information, orders of services, billing, and the deployed network devices data using MySQL, resulting in a 40% improvement in data extraction efficiency
- Visualized network structures of Lucion Tech. Corp. in Microsoft Visio
- Created weekly business analytics reports based on users' structure analysis and competitor research

PROJECT EXPERIENCE

Analysis of the Effect of COVID-19 on US Trade and US Firms, UT Dallas

May 2023 – July 2023

- Synthesized data and created fixed-effect regression models to identify correlations and causal mechanisms
- Developed and Implemented machine learning and deep learning models to conduct counterfactual analysis
- Presented findings at the 2023 Applied Data Science International Conference

Extensive Analysis of Table Spreads Industry (Conagra Brands' Project), UT Dallas

February 2023 - May 2023

- Researched over 1.3 million records to identify key metrics contributing to the sales of top brands
- Evaluated strengths and weakness of Conagra Brands compared to competitors in each sub-category
- Built fixed-effect models and time series models in SAS to predict future directions for Conagra Brands

Geospatial Truck Fleet Big Data Analytics and Visualization, UT Dallas

August 2022 – November 2022

- Processed geospatial data ingestion, transformation, and database creation using the Hadoop ecosystem
- Explored and visualized data in Tableau by connecting to Hadoop ecosystem server
- Conducted modeling to analyze factors affecting truck driver risk and provided recommendations

Payroll Management System Database Design via MySQL, UT Dallas

June 2022 – August 2022

- Led a group of five in designing a MySQL-based payroll management database consisting of 13 tables
- Improved efficiency in ETL processes and payroll database management through the implementation of stored functions, procedures, and triggers

Modeling U.S.-China Trade War's effect on US Multinational Corporations

January 2022 - May 2022

- Generated and managed a new database using PostgreSQL and performed data analysis in Python
- Built time series GARCH models in Stata to examine the effects of U.S.-China trade conflicts on US firms
- Presented the findings at 2022 International Society for Data Science and Analytics Conference

TECHNICAL SKILLS

Programming: Python, R, SQL, SAS, Stata

Tools: Tableau, Alteryx, Appian, UiPath, ACCELQ, Jupyter Notebook, Excel Charts, R Shiny

Database & Big Data: MySQL, PostgreSQL, Mango DB, Amazon RDS, Hadoop, Sqoop, Hive, Impala, Pig, Spark

Certificates: Graduate Certificate in Applied Machine Learning at UTD, AWS Certified Cloud Practitioner, Google Analytics, Alteryx Designer Core Certificate, Appian Certified Associate Developer, ACCELQ Automation Engineer

Languages: English, Chinese, Japanese