

## Min (Mia) Shi

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### SUMMARY

Dedicated Political Science Ph.D. candidate, Business Analytics and Data Analytics master's student with four years of experience working with diverse types of data; Equipped with strong skills in data visualization, SQL query, big data, machine learning (ML), and time series model building; Actively seeking Summer 2023 Data Analyst Internship.

### EDUCATION

<b>Ph.D. Candidate in Political Science</b>	Anticipated May 2024
2019 The University of Texas at Dallas, Richardson, TX	GPA: 3.936/4.0
<b>Master of Science in Social Data Analytics and Research</b>	Anticipated May 2024
2021 The University of Texas at Dallas, Richardson, TX	GPA: 3.936/4.0
<b>Master of Science in Business Analytics</b>	Anticipated May 2024
2022 The University of Texas at Dallas, Richardson, TX	GPA: 4.0/4.0

### TECHNICAL SKILLS

**Programming:** Python, R, SQL, Stata, SAS

**Tools:** Alteryx, Tableau, Jupyter Notebook, Excel Charts, R Shiny

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

**Certificate:** Graduate Certificate in Applied Machine Learning at UTD, AWS Certified Cloud Practitioner, Alteryx Designer Core Certificate

**Languages:** English, Chinese, Japanese

### WORK EXPERIENCE

**Research Assistant** – School of Economic, Political & Policy Sciences at UTD May 2020 – Present

- Project I: Explored the effects of the 2014-16 Ebola Crisis on WHO-reporting Nations' Systemic Adaptations and 2020-21 COVID-19 Response; Collaborated with my coworkers in generating original data for 245 WHO-reporting nations, conducting statistical analytics, writing reports, and submitting to journals
- Project II: Accomplished data cleaning of 1212 cross-country surveys in Python, utilized t-tests, correlation analysis, fixed effect regression models to perform data analysis in R
- Project III: Utilized time series GARCH models in modeling the effects of U.S.-China trade conflicts on U.S. companies; Presented the findings at 2022 International Society for Data Science and Analytics Conference

**Database Management Intern** – Lucion Technology Corp., Ltd., China July 2017 – August 2017

- Collaborated with IT department manager and used MySQL to manage enterprise users' information, orders of services, billing, and the deployed network devices data, which improved data extraction efficiency by 50%
- Visualized network structures of Lucion Tech. Corp. in Microsoft Visio
- Created over ten BI reports based on analysis of users' structure, competitors, and market trend

### PROJECTS

**Geospatial Truck Fleet Big Data Analytics and Visualization** August 2022 – November 2022

- Used big data Hadoop ecosystem to process geospatial data ingestion, transformation, and database creation
- Performed data exploration and visualization in Tableau by connecting to Hadoop ecosystem server
- Modeled how factors affect the truck driver risk factor, drew a final report and proposed suggestions on how to lower the probability of large trucks accidents

**Payroll Management System Database Design via MySQL** June 2022 – August 2022

- Led a group of five in conducting business requirements analysis and designing a payroll management database with MySQL consisting of 13 tables
- Increased efficiency in extract-transform-load and payroll database management by 100% via stored functions, procedures, and triggers

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

- Designed a synchronous Tableau dashboard with advanced interactive functions to explore COVID-19 severity
- Utilized Tableau to probe the correlation between factors and the severity of COVID-19 by country

### AWARDS

**Government and Political Science Scholarship**

*by The University of Texas at Dallas*

2022