

MIN SHI

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Summary

- Dedicated Data Analytic master and Political Science Ph.D. with three years of statistical research experience
- One and half years of work experience in data analysis, information management, and database management
- Hands-on experience in multiple industry analytical visualization tools, e.g., Tableau, Microsoft Visio, Shiny, etc.
- Strong skills in machine learning & time series model building and validation with Python, R, & Stata

Technical Skills

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| 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 |

Work Experience

School of Economic, Political and Policy Sciences, UTD *Research Assistant* **May–August 2020, 2021, 2022**

- 2020: Collaboratively collected data on the benefits connection among U.S. government officers, senators, representatives, and U.S. firms; Performed detailed data analysis to detect potential financial and social connections
- 2021: Performed highly accurate data collection of all supreme court cases' schedules and basic time gap analysis
- 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

Lucion Technology Corp., Ltd. *General & Database Management* **July–August 2017**

- Collaborated with IT department manager in building a database managing all enterprise users' information, order data about internet & information services, billing information, the deployed network devices data using MySQL
- Built comprehensive network topologies for visualizing network structures of Lucion Tech. Corp. and its users
- Generated business intelligence (BI) report based on analysis of users' structure, competitors, and market trends

Jinan Wangjia Education & Technology Corp., Ltd. *Data Management & Analyst* **March 2016 – June 2017**

- Assisted the principal in upgrading staff & students information management via excel to Access database system
- Built questionnaires for monthly course assessments, generated BI report based on the correlation analysis

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

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

Content Analysis with Machine Learning (Team Project) **August - December 2021**

- A team project focused on how news organizations frame the 2018 U.S.-China trade war during Trump Era
- Collaborated with programming to optimize data collection and ensure data quality, collected over 1000 sampled news coverage from both U.S. and China sides
- Utilized machine learning skills such as topic modeling, classification & sentiment analysis in exploring the differences in media coverage in China and the U.S.

Education

The University of Texas at Dallas **August 2019 – May 2024 (Expected)**
Ph.D. Candidate in Political Science, Major International Relations, Minor Political Institutions and American Politics
GPA: 3.917/4.0

The University of Texas at Dallas **August 2021 – May 2024 (Expected)**
M.S. in Social Data Analytics and Research
GPA: 3.917/4.0

Languages

English ★★★★★ Chinese ★★★★★ Japanese ★★★★★