

# Travis Dorsey

DATA SCIENCE | ECOLOGICAL ECONOMICS | POLITICAL ECONOMY

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## Profile

- Results-focused savvy leader with sound knowledge of economics, data science, and data storytelling.
- Organized, highly self-motivated, and detail-directed problem solver focused on developing ideas and using data to drive achievement.

## Work Experience

### U.S. Small Business Administration

Remote

LEAD DATA SCIENTIST

July 2022 - Present

- Applied causal and correlational econometric models, such as Difference-in-Difference, to study economic impact of SBA programs.
- Utilized Random Forest and Survival Regression models to identify lower-risk sections of the portfolio that could streamline processing to significantly cut processing time while limiting risk.
- Developed complex, risk-based stratified sampling plans for all SBA Certification programs covering over 50,000 program participants.
- Led and mentored a team of data scientists, assigning tasks and ensuring high quality and timeliness of deliverables.
- Conceived and managed a research project to forecast new SBA loans each month using machine learning models such as XGBoost that leveraged both SBA data and external data.

### National Institutes of Health (via MSC, Inc.)

Remote

DATA SCIENTIST

Apr 2015 - July 2022

- Working directly with the Institute Director, performed the first causal analysis of a new NIGMS research grant program, leveraging Difference-in-Difference methods and propensity matching to quantify causal impact.
- Retrieved detailed economic data from BLS to analyze the impact of NIH funding on economic development across states, including the impact on employment and small business starts in various science-related industries.
- Built an R package to streamline and automate database querying and commonly performed analyses to save time and allow team members less proficient in coding to perform analyses.

### JPMorgan Chase

Lewisville, TX

STRATEGIC ANALYTICS BUSINESS ANALYST III

Dec 2013 - Mar 2015

- Developed recommendations for executives and supervisors that were accepted by operating components; recommendations included procedural changes, systems variations, and acceptance of new technology developments.
- Developed and maintained statistical tables and reports with complex formulas and calculations to make recommendations for improvements to promote efficiency and cost savings of over \$10 million.

### JPMorgan Chase

Fort Worth, TX

SPECIAL RISK CREDIT ANALYST

Sep 2011 - Dec 2013

- Trained new hires and created Job Aides, Workflow Tools, and Processes to reduce error rate from 35% to 4% in one year.

## Education

### University of Texas at Dallas

Richardson, TX

MASTER OF SCIENCE IN INTERNATIONAL POLITICAL ECONOMY (GPA: 3.9)

2011

- Relevant Coursework: Advanced Regression Analysis, Time Series Analysis, Structural Equations & Multilevel Modeling, Political Economy of Multinational Corporations

### University of Texas at Dallas

Richardson, TX

BACHELOR OF ARTS IN INTERDISCIPLINARY STUDIES (GPA: 3.96, SUMMA CUM LAUDE)

2009

- Relevant Coursework: International Political Economy, Economics for Public Policy, World Resources and Development, Game Theory, The Global Economy

## Skills

**Programming** R, SQL, PowerBI, Tableau, XGBoost, Keras

**Statistics** OLS, GLM, VAR, Difference-in-Difference, Forecasting, ARIMA

**Languages** Native: English, *Fluent*: Mandarin Chinese, *Intermediate*: Taiwanese