






Michael Boerman

Detail-oriented data scientist with M.S. + 2 years' experience driving decisions by modeling economic and financial data.

CONTACT

 michaelboerman@hey.com
 484-219-7563
 [linkedin.com/in/michael-boerman](https://www.linkedin.com/in/michael-boerman)

PORTFOLIO

 www.michaelboerman.com
 [Explained by Michael YouTube channel](#)
 [Covid: How Long Did You Last?](#)

PROFESSIONAL JOB HISTORY

Federal Reserve Board of Governors

Financial Systems Analyst (Data Engineering) December 2021 - Present

Summary: Automate data ingestion and analysis for financial regulation data

- Improve and automate business processes, data ingestion, and data analysis by writing R scripts and Rmarkdown reports.
- Develop internal R packages to automate repeated and complex SQL queries.
- Communicate performance metrics through custom, interactive dashboards in R Shiny and Tableau.
- Collaborate with data providers and data end users to create efficient data flows that reduce email clutter and manual processing.

Senior Research Assistant (Data Science)

May 2020 - December 2021

Summary: Developed forecasting models used in FOMC monetary policy

Links to Work: [Predicting the Present](#) and [Covid Lockdown Severity Index](#)

- Collaborated with economists to create statistical models and econometric forecasts using state-space time series, dynamic factor models, and ARIMA and deploy the models to production.
- Wrote and refactored code in R and Matlab for more than 10 statistical models and over 50 unique visualizations across 30 repositories.
- Developed and maintained 3 in-house R packages with over 100 functions used in more than 250 scripts.
- Built a documentation website in R Shiny for version-controlled, wiki-based documenting across teams.

EDUCATION

Georgia Institute of Technology, Atlanta, GA, USA August 2019 - May 2020
M.S. in Applied Economics, concentration in statistics and econometrics GPA: 4.0

University of Alabama in Huntsville, Huntsville, AL, USA August 2015 - May 2019
B.S. in Industrial & Systems Engineering; Minor in Astrophysics GPA: 4.0

COMPETENCIES

Time series analysis, regression analysis, predictive modeling, forecasting, Bayesian inference, natural language processing, ETL, data wrangling, data cleaning, database development, data visualization, Infrastructure as Code, git version control, CI/CD deployment

PROGRAMMING

SQL, R (R Shiny, Rmarkdown, tidyverse, ggplot2), git, shell, Python, Tableau

CERTIFICATIONS

Six Sigma Green Belt, AQS, April 2018
Tableau Desktop Specialist, Tableau, September 2019. [Link](#).