

Michael Boerman

Data scientist with M.S. and 3 years experience driving decisions by modeling financial and economic data.

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PORTFOLIO 📁 www.michaelboerman.com 📺 [YouTube channel](#) 📊 [Covid: How Long Did You Last?](#)

PROFESSIONAL JOB HISTORY

Discover Financial Services

Lead Data Science Analyst October 2022 - Present

Summary: Forecast credit card charge-off rates using time series econometrics

- Created and maintained documentation for every process owned by the team using markdown and git under the Diataxis framework.
- Transformed messy development code into high-quality, fully-tested, scalable production code.
- Transitioned the team's file management from local storage to Sharepoint and Github.

Federal Reserve Board of Governors

Financial Systems Analyst (Data Engineering) December 2021 - October 2022

Summary: Automate data ingestion and analysis for financial regulation data (CCAR).

- Automated business processes, data ingestion, and data analysis with R, Python, and SQL.
- Communicated performance metrics by creating interactive dashboards in R Shiny and Tableau.
- Created machine learning models to detect outliers in bank submission data.

Senior Research Assistant (Data Science) May 2020 - December 2021

Summary: Developed inflation and GDP 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 models.
- Deployed models to production using Gitlab CI/CD pipelines.
- Wrote and refactored code in R and Matlab for more than 10 statistical models and over 50 unique visualizations across 30 git 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 documentation.

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, econometrics, forecasting, regression analysis, predictive modeling, ETL/ELT, database development, data visualization, git version control, Agile, CI/CD, technical writing

PROGRAMMING Python, R, SQL, git, shell/bash, Tableau, MATLAB

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