







# Michael Boerman

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## CONTACT

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## PORTFOLIO

 [Explained by Michael YouTube channel](#)  
 [Covid Lockdown Severity Index](#)  
 [www.michaelboerman.com](http://www.michaelboerman.com)

## PROGRAMMING LANGUAGES

**Advanced:** R (tidyverse, Shiny, packages), L<sup>A</sup>T<sub>E</sub>X, regex, git/version control, linux  
**Proficient:** SQL, Matlab, python, Tableau, Minitab, Adobe Creative Suite  
**Beginner:** SAS, Stata, C++, HTML/CSS, javascript

## PROFESSIONAL JOB HISTORY

### Federal Reserve Board of Governors

Financial Systems Analyst (Data Engineering, DevOps) December 2021 - Present

Projects Worked: Data Engineering, ETL, and analysis for bank regulation data

- Develop internal R package with convenience functions to save time on repeated and complex SQL queries, saving innumerable lines of code and saving 6 people each up to 2 hours per week.
- Created data analysis templates for discovering trends outliers, etc using Rmarkdown, which is up to 3x faster than existing Excel process.
- Replaced manual Excel sheet with automatic dashboards using R Shiny, saving 6 people each up to 60 minutes per week and saving 25+ people up to 30 minutes per week.

Senior Research Assistant (Data Science, DevOps)

May 2020 - December 2021

Projects Worked: Macroeconomic forecasting models used in U.S. monetary policy

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

- Wrote and refactored code in R and Matlab for more than 10 novel statistical models and over 50 unique visualizations across 30 repositories.
- Developed and maintained internal 3 internal R packages that were used by more than 5 teams across in more than 250 scripts.
- Built and maintained a documentation website in R Shiny, replacing the need for scattered word documents and saving 3 people up to 2 hours per week.
- Studied econometric forecasting models using state-space time series, factor models, and ARIMA.

## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA, USA

Fall 2019 - Spring 2020

GPA: 4.0

M.S. in Economics, concentration in econometrics

**University of Alabama in Huntsville**, Huntsville, AL, USA

Fall 2015 - Spring 2019

GPA: 4.0

B.S. in Industrial & Systems Engineering; Minor in Astrophysics

## INTERNSHIP EXPERIENCE

NASA Space Launch System (systems engineering), Boeing 787 (supply chain management), General Electric (quality engineering), Fulfyld (process improvement engineering).

## CERTIFICATIONS

**Six Sigma** Green Belt, ASQ, Spring 2018

**Tableau** Desktop Specialist, Tableau, Fall 2019. [Link](#).

**Engineer-in-Training** Alabama FE, NCEES, Spring 2019