







# 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  
Division: IT: Monetary, Research, & Capital Reports  
Projects Worked: Data Engineering, ETL, and analysis for bank regulation data (Y-14 Reports)  
Responsibilities: Write code to automate data collection and checks. Write code to conduct preliminary data analysis. Write code to communicate system status to end users.

Senior Research Assistant (Data Science, DevOps) May 2020 - December 2021  
Division: Research & Statistics: Current Macroeconomic Conditions  
Projects Worked: Macroeconomic now-casting models used in U.S. monetary policy  
Links to Work: [Predicting the Present](#) and [Covid Lockdown Severity Index](#)  
Responsibilities: Wrote code in R and Matlab for new models and visualizations. Refactored old, outdated, faulty code to meet rigorous robustness standards, including tests. Cleaned data for research projects. Built and maintained documentation wiki in R Shiny. Studied and implemented econometric models using state-space time series, ARIMA, dynamic factor models, and Bayesian VAR.

## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA, USA  
2019 - 2020  
GPA: 4.0/4.0  
M.S. in Economics, concentration in econometrics

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

## INTERNSHIP EXPERIENCE

NASA Space Launch System (systems engineering), Boeing 787 (supply chain management), General Electric (supplier 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