Michael Boerman

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

PROFESSIONAL JOB HISTORY

Federal Reserve Board of Governors

Systems Analyst   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 Python and R scripts, saving up to 90 person-hours/week.
- Develop 2 internal R packages to automate repeated and complex SQL queries, saving up to 35 person-hours/week.
- Define KPI and performance metrics and communicate them through 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   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.
- 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, database development, data visualization, Infrastructure as Code, git

PROGRAMMING

SQL, R (Shiny, Rmarkdown, package development, ggplot2), git, Azure DevOps, Python, Tableau

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, April 2018

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