Michael Boerman

Summary: Quantitative M.S. with 2+ YOE in Data Science Analytics; speciality in forecasting and automation with R.

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

COMPETENCIES

Time series analysis, regression analysis, predictive modeling, forecasting, database development, data visualization, big data and small data science, Infrastructure as Code, git version control

PROGRAMMING LANGUAGES

Advanced: SQL, R (Shiny, Rmarkdown, package development), LaTeX, git (github and DevOps)

Proficient: python, Tableau, Matlab, Adobe Creative Suite

PROFESSIONAL JOB HISTORY

Federal Reserve Board of Governors

Financial Systems Analyst (Data Engineering, DevOps)   December 2021 - Present
- Summary: Data Engineering, ETL, and analysis for bank regulation data
  - Develop 2 internal R packages with convenience functions to save time on repeated and complex SQL queries, saving innumerable lines of code and saving 6 people each up to 4 hours per week.
  - Created data analysis templates for discovering trends and outliers using Rmarkdown which is up to 3x faster than existing Excel process and less error-prone.
  - Replaced manual Excel sheet with automatic dashboards using R Shiny, saving 6 people each up to 3 hours per week and saving 25+ people up to 1 hour per week.

Senior Research Assistant (Data Science, DevOps)   May 2020 - December 2021
- Summary: Developed forecasting models used in FOMC 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 statistical models and over 50 unique visualizations across 30 repositories.
  - Developed and maintained 3 internal R packages with over 100 functions that were used in more than 250 scripts.
  - Built 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   August 2019 - May 2020
M.S. in 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

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](#).