

David Failing

LEAD DATA SCIENTIST

☎ 630 939 0691 | ✉ david.failing@gmail.com | 🏠 davidfailing.com | 📺 dfailing | 📺 davidfailing

Proven Data Science Leader adept at building scalable analytics infrastructure, advancing data-driven culture, and distilling complex data into actionable insights. Expert at clear communication and creative data-driven solutions for informed decision-making.

Experience

InsideTracker

Cambridge, MA (Remote)

LEAD DATA SCIENTIST

Feb 2023 - May 2023

SENIOR DATA SCIENTIST

Dec 2021 - Feb 2023

- Integrated biomarker data from blood, DNA, and wearables with business intelligence to drive product innovation and science-based marketing.
- Envisioned, developed, and deployed internal R package for report templating and standardized data processing. Package documentation enabled new teammates to self-onboard and contribute meaningfully to our codebase in <50% the time.
- Optimized performance and reduced runtime by 90% on a critical R-based RESTful API serving high-revenue product feature through strategic refactoring using Plumber.
- Instituted automated ticketing system using GitHub Issues and Google Forms to efficiently manage internal consultancy.
- Initiated and administered Posit Connect based dashboard and reporting system.

RStudio

Boston, MA (Remote)

DATA SCIENCE EDUCATOR

Aug 2021 - Jan 2022

EXERCISE CONTENT AUTHOR

Jun 2021 - Aug 2021

- Developed tidyverse curriculum for R users using learnr, gradethis, and RMarkdown.
- Maintained exercises and R packages in a Git repository using Github, including document templates.
- Mentored small groups of novice R users in accelerated, project based short-course format for b2b customers through Posit Academy.

Coconino Community College

Flagstaff, AZ (Remote)

PART-TIME FACULTY IN MATHEMATICS

May 2020 - present

- Teach one web-based general education course per semester for groups of 10-25 students.

Northern Arizona University

Flagstaff, AZ (Remote)

GRADUATE ASSISTANT

May 2020 - May 2021

- Managed and mentored teams of 4-5 students in professional communication on capstone projects for corporate clients.

Lewis University

Romeoville, IL

ASSISTANT PROFESSOR OF MATHEMATICS

Aug 2017 - Aug 2020

- Taught undergraduate and graduate level mathematics and data science courses.
- Directed honors program (Scholars Academy) with \$125,000 annual budget.
- Co-chaired themed contributed paper session on effective teaching innovation at annual MAA Mathfest (4 years).

Quincy University

Quincy, IL

ASSISTANT PROFESSOR OF MATHEMATICS

Aug 2014 - May 2017

- Taught undergraduate mathematics courses.
- Researched and developed inquiry-based courses for mathematics major with support from \$2500 external grant.

Skills

- Languages & Platforms: R, SQL, \LaTeX , Python, Posit Connect
- R Packages: tidyverse, ggplot2, R Markdown, Shiny/shinydashboard, pins, tidymodels, keras, torch
- Python Libraries: NumPy, pandas, Scikit-Learn, matplotlib
- Tools: GitHub & GitHub Projects, RStudio Connect, Jupyter

Education

Iowa State University

Ames, IA

PHD MATHEMATICS

2013

Truman State University

Kirkville, MO

BS MATHEMATICS, BA PHILOSOPHY & RELIGION

2008