

# David Failing

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

## Experience

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### 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 RESTful API serving high-revenue product feature through strategic refactoring using R Plumber package.
- Instituted automated ticketing system using GitHub Issues and Google Forms to efficiently manage internal consultancy.
- Initiated and administered Posit Connect dashboard and reporting system to democratize proprietary data asset for non-technical audiences.

### 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 annual Themed Contributed Paper Session (TCPS) on effective teaching innovation at 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

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- Languages & Platforms: R, SQL, Markdown,  $\text{\LaTeX}$ , Python
- R Packages: tidyverse, ggplot2, R Markdown, Shiny/shinydashboard, pins, tidymodels, keras, torch
- Python Libraries: numPy, pandas, Scikit-Learn, matplotlib
- Tools: GitHub, Github Actions, GitHub Projects, Jira, Confluence, RStudio Connect

## Education

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### Iowa State University

Ames, IA

#### PHD MATHEMATICS

2013

### Truman State University

Kirkville, MO

#### BS MATHEMATICS, BA PHILOSOPHY & RELIGION

2008