

# David Failing

LEAD DATA SCIENTIST

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## Experience

### InsideTracker

LEAD DATA SCIENTIST

Cambridge, MA

Feb 2023 - May 2023

SENIOR DATA SCIENTIST

Dec 2021 - Feb 2023

- Worked with data from blood, DNA, and wearables to drive product innovation and science-based marketing.
- Optimized performance by reducing processing time by an outstanding 90% on a critical RESTful API endpoint serving a high-value \$2M/year product feature through strategic enhancements made using the R Plumber package.
- Planned, developed, and deployed internal R package for report templating and standardized data processing.
- 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

DATA SCIENCE EDUCATOR

Boston, MA

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

PART-TIME FACULTY IN MATHEMATICS

Flagstaff, AZ

May 2020 - present

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

### Northern Arizona University

GRADUATE ASSISTANT

Flagstaff, AZ

May 2020 - May 2021

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

### Lewis University

ASSISTANT PROFESSOR OF MATHEMATICS

Romeoville, IL

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

ASSISTANT PROFESSOR OF MATHEMATICS

Quincy, IL

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,  $\text{\LaTeX}$ , Python
- R Packages: tidyverse, ggplot2, R Markdown, Shiny/shinydashboard, tidymodels, keras, torch
- Python Libraries: numPy, pandas, Scikit-Learn, matplotlib
- Tools: GitHub & GitHub Projects, RStudio Connect, Jupyter

## Education

### Iowa State University

PHD MATHEMATICS

Ames, IA

2013

### Truman State University

BS MATHEMATICS, BA PHILOSOPHY & RELIGION

Kirkville, MO

2008