NOT MY NAME

DATA ANALYST

CONTACT

empty
empty
empty

EDUCATION

B.S. Physics
Utah Valley University
Jan 2015 - May 2018
Orem, Utah

SKILLS

Programming Languages

Python (Numpy, SciPy, pandas, scikit-learn, matplotlib)
SQL (MySQL)
LabVIEW
MATLAB
C#

Software

Google Workspace
Microsoft Office
LaTeX

CERTIFICATIONS

Statistics, Probability, SQL, Python Programmer
365DataScience

Applied Data Science,
MIT Professional Education - In Progress

SERVICE

Lay Minister
The Church of Jesus Christ of Latter-day Saints
Sep 2019 - April 2022

Six years of experience with data analysis and visualization utilizing Python and associated libraries. Intensely curious, constantly driven to learn and master new material, actively aiming to grow personally and professionally while positively influencing society.

EXPERIENCE

Graduate Research Assistant

Auburn University Physics Department
Jan 2019 - May 2021

- Gathered and analyzed experimental data for identification of plasma wave phenomena. Methods included **Fourier transformations**, current vs. voltage traces, and **time series** analysis.
- Identified and rectified persistent radio frequency interference through **spectrum analysis** of collected data.
- Rebuilt and upgraded ALEXIS, an inactive linear vacuum plasma experiment, associated data probes, LabVIEW VIs, and DAQ configuration, extending service life and reducing required maintenance time.
- **Mentored** and **supervised** undergraduate students in the ALEXIS Laboratory.
- Wrote the ALEXIS standard operations manual.

Graduate Teaching Assistant

Auburn University Physics Department
Aug 2018 - May 2021

- Received **Graduate Teaching Assistant of the Year** award.
- **Analyzed** student grades - mean, median, mode, and standard deviation - and **compared** with previous semesters to improve instruction effectiveness.
- Taught students from many majors, including liberal arts, engineering, and physics.

Undergraduate Research Assistant & Academic Tutor

Utah Valley University
Jan 2015 - May 2018

- **Automated analysis** of 15 years of satellite data - over 150 GB - via **binning**, **smoothing**, **running averages**, and gradient calculations, to identify and quantify specific atmospheric phenomena and associated historical trends.
- Founded plasma physics research group; applied for grants, managed budget, and supervised members to construct a working plasma engine.
- Built and optimized a computational model of a plasma engine. Optimized thrust via comparison of **Maxwellian** velocity **distributions** and presented findings at a regional conference.
- Built algorithm to remove stars and fish-eye distortion, followed by **FFT** and **time series** analysis, of image series for identification of atmospheric gravity waves.
- Applied for and received maximum value research grants every year at a non-research institution.