Virginia Price

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» Summary

I am a creative nerd that is passionate about investigating the data of large, complex systems, and building tools to make those data accessible for others. I have 6+ years of experience with Python analyzing qualitative and quantitative data as well as experience with Matlab, R, and HTML/CSS.

» Experience

Researcher (Physics Education Research) 01/2017 — 12/2021

Drexel University | *Philadelphia, PA*

- Used a grounded theory approach to find common themes of 800 short-form qualitative responses
- Created Python modules to find relationships between themes and visually summarize data
- Communicated research outcomes through writing and presentations

Researcher (Astrophysics) 09/2015 — 12/2016

Drexel University | *Philadelphia, PA*

- Aggregated flux data from ground-based and space telescopes to determine star formation rates of several hundred thousand galaxies
- Wrote Python scripts to compare and visualize the relationship between galaxy star formation rates and spectroscopic data
- Defended Master's thesis to academic committee in June 2016

Teaching Assistant 09/2014 — 06/2020

Drexel University | *Philadelphia, PA*

- Taught Engineering Physics, Physics for Life Sciences, Conceptual Physics, and Calculus-based Physics with Python
- Created lesson plans, assessments, and procedures for recitation and lab sections
- Built Python-based interactive visualizations of complex physical phenomena for student use

Intern 05/2012 — 08/2012

Orbital Debris Program Office | *NASA Johnson Space Center*

- Created a MATLAB data pipeline to efficiently import, organize, and process lightcurve data of orbital debris
- Worked with a Meade telescope to facilitate on-site tracking of orbital debris

» Education

Drexel University

Philadelphia, PA

2014 — 2021

- PhD in Physics (incomplete)
- MS in Physics

Montana State University

Philadelphia, PA

2009 — 2013

- BSc in Physics
- 3.40 GPA

» Relevant Skills

Python ●●●●○

Includes: NumPy, Pandas, SciPy, Matplotlib, AstroPy, vPython

Mathematics ●●●●●

Fourier analysis, PDEs

Communication ●●●○

Analytic Thinking ●●●●●

R ●●○○○

Github ●●●○○

Microsoft Office ●●●●

Matlab ●●●○○

HTML/CSS ●●●○