Sonya Sawtelle

Data enthusiast with a strong background in math, science and programming.

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Education

Ph.D. program in Applied Physics, Yale University (2012-present)

- Research on transport in metal nanostructures.
- Coursework in physics, engineering, and statistics.

B.S. in Physics, Indiana University (2008-2011)

- Baccalaureate with Departmental Honors and Highest Distinction, 3.98/4.0 GPA

MOOCs (ongoing)

- Machine Learning (Stanford, Andrew Ng)

Experience

Freelance Data Scientist, Upwork (2017-present)

- Worked on a variety of data analysis, visualization and machine learning projects.

Independent Researcher, Yale University (2012-present, New Haven CT)

- Data analysis and simulation in Python and MATLAB, and instrument control in C++. Designed and executed experiments across four projects and managed several undegraduate students.

MCAT Instructor, Kaplan Test Prep (2011-2012, New Haven CT)

- Planned and delivered lectures on core content in undergraduate Physics, Chemistry and Biology to medium-sized groups of undergraduates.

Skills

Programming: Python, SQL, MATLAB, C++, R, git, HTML/CSS, d3.js

Python SciPy Tools: Pandas, Numpy, Matplotlib, Scikit-learn

Awards

- **Sterling Prize Fellowship**, Yale University (2013). Awarded to 30 out of 10,500 applicants.
- **IU Founders Scholar**, Indiana University (2012)
- **Baccalaureate with Highest Distinction**, Indiana University (2012). Granted to 5 students out of 498 in the class.

Projects

***Evening Sessions: Explorations in Data Science and Python* Blog** (2015-present)

- Authored a series of articles covering a wide variety of topics and tools related to pure Python programming, data science and statistics.

GeekBuddy Social Graph and Buddy Finder (2017)

- Built a web app that displays the social graph for a user in the www.boardgamegeek.com community and colors nodes by correlation to the user with boardgame ratings data.