

JESSE S. DEVANEY

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jessesdevaney.github.io

EDUCATION

Indiana University

BS in Physics *with Highest Distinction*

BS in Mathematics *with Highest Distinction*

August 2015 - December 2019

DATA ANALYSIS EXPERIENCE

Research Assistant

Earth and Atmospheric Sciences Department

December 2018 - December 2019

Kieu Research Group

- Coded bash scripts to automate the collection and organization of climate model data from thousands of output files
- Compared and bias corrected the statistical distributions of climate model output to corresponding observations by using quantile mapping

Research Intern (Research Experiences for Undergraduates)

Triangle Universities Nuclear Laboratory

May - July 2018

Barbeau Research Group

- Characterized individual NaI[Tl] crystals by their non-linear light response at low energies using four low-energy gamma-ray sources
- Implemented a pulse shape discrimination algorithm aiding in the identification of noise and abnormal pulses in the detector

Research Assistant

Center for Exploration of Energy and Matter

August 2017 - May 2018

Snow Research Group

- Investigated the feasibility of creating a neutron mirror by compiling neutron-nucleus resonance data
- Developed a script to plot the neutron-nucleus resonances

RELEVANT COURSEWORK

Statistical Learning

Stanford Lagunita

January - February 2020

- Completed An Introduction to Statistical Learning with Applications in R by James, Witten, Hastie, and Tibshirani
- Completed its online companion course, Statistical Learning, on Stanford Lagunita

Data Scientist in Python Path

DataQuest

February - June 2020

- Completed courses covering python programming, data analysis and visualization, command line, databases, probability and statistics, machine learning, deep learning, and git
- Completed twenty-three guided projects in tandem with the courses

TECHNICAL STRENGTHS

Computer Languages

Python, R, Markdown, Bash scripting, HTML, CSS

Software

Linux, Command line, Git, SQL, LaTeX, Word, PowerPoint

Data Science

Data cleaning, Python (NumPy, pandas, Matplotlib, Scikit-learn), Machine Learning

ACHIEVEMENTS

Member

Phi Beta Kappa Honor Society

December 2018