JESSE S. DEVANEY

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EDUCATION

Indiana University   *August 2015 - December 2019*
BS in Physics
BS in Mathematics

DATA ANALYSIS EXPERIENCE

Research Assistant   December 2018 - December 2019
Earth and Atmospheric Sciences Department   *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)   May - July 2018
Triangle Universities Nuclear Laboratory   *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   August 2017 - May 2018
Center for Exploration of Energy and Matter   *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   January - February 2020
Stanford Lagunita

- 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   February - June 2020
DataQuest

- 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   December 2018
Phi Beta Kappa Honor Society