

# JESSE S. DEVANEY

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## EDUCATION

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### Indiana University

BS in Physics

BS in Mathematics

August 2015 - December 2019

## DATA ANALYSIS EXPERIENCE

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### 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

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### Statistical Learning

*Stanford Lagunita*

January 2020 - 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

*DataQuest*

February 2020 - Present

- Currently in the process of completing the Data Scientist in Python path on DataQuest. This path covers topics in python programming, data analysis and visualization, command line, databases, probability and statistics, machine learning, deep learning, and git.

## TECHNICAL STRENGTHS

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### Computer Languages

Python, R, Markdown, Bash scripting

### Software

Linux, Command line, LaTeX, Word, PowerPoint

### Data Analysis

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

## ACHIEVEMENTS

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### Member

*Phi Beta Kappa Honor Society*

December 2018 - Present

- Less than 1% of IU students are invited to join each year