

# JESSE S. DEVANEY

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jessesdevaney.github.io

## EDUCATION

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### Indiana University

BS in Physics *with Highest Distinction*

BS in Mathematics *with Highest Distinction*

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 - 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

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### Computer Languages

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

### Software

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

### Data Science

Data cleaning, Python (NumPy, pandas, matplotlib, seaborn, scikit-learn), Machine Learning

## ACHIEVEMENTS

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### Member

*Phi Beta Kappa Honor Society*

December 2018