

JESSE S. DEVANEY

jessesdevaney@gmail.com

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

Data Analyst Consultant

Department of Geography

November 2020 - Present

Dr. Julio Postigo

- Developing an ETL (extract, transform, load) pipeline for the conversion of word document climate change surveys to a database format

Research Assistant

Earth and Atmospheric Sciences Department

December 2018 - December 2019

Dr. Chanh Kieu

- 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

Dr. Phil Barbeau

- 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

Dr. W. M. Snow

- 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

February 2020

Data Scientist in Python Path

DataQuest

June 2020

Machine Learning

Coursera

October 2020

TECHNICAL STRENGTHS

Computer Languages

Python, 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

Member

Phi Beta Kappa Honor Society

December 2018