

Spencer Riley

Contact Information

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Development Experience

C, Flutter, HTML, IDL, JavaScript, Python, R, Shell,
Docker, Jupyter, Kubernetes,

Work History

Present **Graduate Research Assistant** [Montana State University]

01 Jun 2023

01 Jun 2023

24 Aug 2022

Graduate Teaching Assistant

Within the Physics Department, my responsibilities while in this position involved:

- Supervising and assisting in undergraduate physics laboratory classes.
- Assisting instructors with grading assignments.
- Tutoring physics students

29 Jul 2022

Post-Bachelor's Researcher

[Institute of Complex Additive Systems Analysis]

22 May 2022

22 May 2022

Research Intern

During my time in these positions, my contributions to projects I have worked on include:

- Data preprocessing for language detection models
- Developing analytical methods for RF and Bluetooth models
- Internet-Of-things research and metadata configuration
- Writing Helm Charts for several Kubernetes applications

The last project I worked on applied acoustic analysis as a method to detect aircraft.

16 Aug 2017

High School Work Study

[National Security Agency]

06 Sep 2016

As a requirement of this position, I had to pass a background check and a federal investigation to obtain a Top Secret security clearance. The tasks I was assigned involved clerical work relating to inventory, data transfer requests, and documentation management. In addition, I was a part of the effort to prepare for the Inspector General's inspection.

Education

Present

Ph.D. Physics

[Montana State University]

Aug 2022

GPA: 3.10

May 2022

B.Sc. Physics

[New Mexico Institute of Mining and Technology]

Aug 2017

Astrophysics and Atmospheric Physics Option
Minor in Mathematics

GPA: 3.28

Publications

- 18 Mar 2022 **Atmospheric precipitable water vapor and its correlation with clear-sky infrared temperature observations**
Vicki Kelsey, Spencer Riley, Kenneth Minschwaner
Atmospheric Measurement Techniques
10.5194/amt-15-1563-2022

Presentations

- Apr 2022 **The Precipitable-Water Model Analysis Tool: An open-source suite for estimating precipitable water with low-cost instrumentation.**
Lubbock, TX
National Weather Service, 5th Texas Weather Conference
- Apr 2022 **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Observations**
Lubbock, TX
National Weather Service, 5th Texas Weather Conference
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- Jan 2020 **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings**
Boston, MA
American Meteorological Society Annual Meeting 100
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- Nov 2019 **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings: Data Analysis**
Providence, RI
Physics Congress 2019