Spencer Riley

Contact Information

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Dev Board	: board.sriley.dev

Development Experience

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

Work History

Present 01 Jun 2023	**Graduate Research Assistant**	[Montana State University]

Graduate Teaching Assistant

01 Jun 2023 — 24 Aug 2022

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 22 May 2022	**Post-Bachelor's Researcher**	[Institute of Complex Additive Systems Analysis]

Research Intern

22 May 2022 — 05 Sep 2017

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 06 Sep 2016	**High School Work Study**	[National Security Agency]

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 Aug 2022	**Ph.D. Physics**	[Montana State University]
		GPA: 3.10

May 2022 Aug 2017	**B.Sc. Physics**	[New Mexico Institute of Mining and Technology]
	Astrophysics and Atmospheric Physics Option Minor in Mathematics	GPA: 3.28

Publications

Presentations

Apr 2022
Lubbock, TX — **The Precipitable-Water Model Analysis Tool: An open-source suite for estimating precipitable water with low-cost instrumentation.**

National Weather Service, 5th Texas Weather Conference

Apr 2022
Lubbock, TX — **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Observations**

National Weather Service, 5th Texas Weather Conference

Jan 2020
Boston, MA — **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings**

American Meteorological Society Annual Meeting 100

Nov 2019
Providence, RI — **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings: Data Analysis**

Physics Congress 2019