

# Spencer Riley

## Contact Information

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Dev Board : [board.sriley.dev](https://board.sriley.dev)

## Development Experience

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

## Work History

|             |  |  |
|-------------|--|--|
| Present     | <b>Graduate Research Assistant</b>   | [Montana State University]                       |
| 01 Jun 2023 |  |  |
| 01 Jun 2023 | <b>Graduate Teaching Assistant</b>   |  |
| 24 Aug 2022 | Within the Physics Department, my responsibilities while in this position involved: <ul style="list-style-type: none"><li>• Supervising and assisting in undergraduate physics laboratory classes.</li><li>• Assisting instructors with grading assignments.</li><li>• Tutoring physics students</li></ul>   |  |
| 29 Jul 2022 | <b>Post-Bachelor's Researcher</b>  | [Institute of Complex Additive Systems Analysis] |
| 22 May 2022 |  |  |
| 22 May 2022 | <b>Research Intern</b>   |  |
| 05 Sep 2017 | During my time in these positions, my contributions to projects I have worked on include: <ul style="list-style-type: none"><li>• Data preprocessing for language detection models</li><li>• Developing analytical methods for RF and Bluetooth models</li><li>• Internet-Of-things research and metadata configuration</li><li>• Writing Helm Charts for several Kubernetes applications</li></ul> The last project I worked on applied acoustic analysis as a method to detect aircraft. |  |
| 16 Aug 2017 | <b>High School Work Study</b>  | [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

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|----------------|---|---|
| <i>Present</i> | <b>Ph.D. Physics</b>  | [Montana State University]                      |
| Aug 2022       |   | GPA: 3.10                                       |
| May 2022       | <b>B.Sc. Physics</b>  | [New Mexico Institute of Mining and Technology] |
| Aug 2017       | Astrophysics and Atmospheric Physics Option<br>Minor in Mathematics | GPA: 3.28                                       |

## Publications

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- 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

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- 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, 5<sup>th</sup> Texas Weather Conference
- Apr 2022  
Lubbock, TX      **Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Observations**  
National Weather Service, 5<sup>th</sup> 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