Spencer Riley

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Development Experience —

| C | | Javascript | | Python | | R |

| Bash | | HTML |

| sklearn | | TensorFlow |

| Docker | | Flask | | GCloud | | GitHub |

| Raspberry Pi | | Arduino |

Currently Learning ——

| Java | | Flutter |

| TensorFlow Quantum | | QISKit |

| Kubernetes |

| Android |

Work History

Present	Post-bachelor's Researcher	Institute of Complex Additive Systems Analysis
23 May 2022		
22 May 2022	Research Intern	Institute of Complex Additive Systems Analysis
05 Sep 2017		
16 Aug 2017	High School Work Study	National Security Agency
06 Sep 2016		

Education

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

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Research Projects

Present Jan 2019	**The Precipitable Water Project** This research is based on developing a computational model of the relationship between daily precipitable water measurements and the atmospheric temperature. The goal of this research is to develop and utilize the relationship using low-cost instrumentation to deduce the amount of precipitable water from the effective temperature. **Collaborators:** *Vicki Kelsey, Dr. Kenneth Minschwaner* **Documentation Page:** `pmat.app`

Development Projects

Maintained **v**1.0.1	**pacviz** A R package comprised of informal, radial data visualizations for regression and comparative analysis. **Documentation Page:** `pacviz.sriley.dev`
Maintained **v**2.0	**Precipitable-Water Model Analysis Tool** An open source software suite for the analysis of precipitable water. **Documentation Page:** `docs.pmat.app`

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