Cirriculum Vitae
Spencer Riley

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Development Experience

| C | Bash | Javascript | Python | R | HTML | Docker | GCloud |

| GitHub | Raspberry Pi | Arduino |

Work History

Present **05 Sep 2017**	**Research Intern**	**Institute of Complex Additive Systems Analysis**

The position involved tasks regarding a variety of different projects around the theme of complex systems analysis. As a part of a team, I have worked on projects regarding data preprocessing for language detection models, analysis of RF and Bluetooth models, and Internet-Of-Things research and development.

16 Aug 2017 **06 Sep 2016**	**High School Work Study**	**National Security Agency**

The position required a thorough background check, federal investigation including a polygraph, as part of the application in order to obtain Top Secret security clearance. Most of the tasks that were assigned revolved around clerical work, specifically inventory and data transfer requests added with Inspector General inspection preparations.

Education

May 2022 Aug 2017	**B.Sc. Physics**	**New Mexico Institute of Mining and Technology**

Astrophysics and Atmospheric Physics Option
Minor in Mathematics
GPA: 3.26

Publications

Under Review   **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-2021-130

Presentations

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

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:** `docs.pmat.app`

Development Projects

AtmosAccess: A Python package to retrieving atmospheric data.

pacviz: A R package for informal data visualizations.

Precipitable-Water Model Analysis Tool: An open source software suite for the analysis of precipitable water.