

Cirriculum Vitae
Spencer Riley



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Development Experience

C Bash Javascript Python R HTML Docker GCloud GitHub
Raspberry Pi Arduino Android

Work History

Present	Research Intern	Institute of Complex Additive Systems Analysis
05 Sep 2017	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	High School Work Study	National Security Agency
06 Sep 2016	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	B.Sc. Physics	New Mexico Institute of Mining and Technology
Aug 2017	Astrophysics and Atmospheric Physics Option Minor in Mathematics GPA: 3.26	

Publications

Under Review	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Observations <i>Vicki Kelsey, Spencer Riley, Kenneth Minschwaner</i> Atmospheric Measurement Techniques 10.5194/amt-2021-130
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Presentations

Jan 2020 Boston, MA	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings <i>Vicki Kelsey, Spencer Riley</i> American Meteorological Society Annual Meeting 100
Nov 2019 Providence, RI	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings: Data Analysis <i>Spencer Riley, Vicki Kelsey</i> 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: <i>Vicki Kelsey, Dr. Kenneth Minschwaner</i> Documentation Page: <code>docs.pmat.app</code>
Present Sept 2021	Some Analysis for Looking at the Sun's Atmosphere A project that aims to develop methods and utilities for observing the Sun's photosphere and outer atmosphere via low-cost instrumentation. A major milestone for this project is the development of the SALSA mobile application which will display data regarding astronomical objects, the weather, and solar information. Documentation Page: <code>salsa.sriley.dev</code>