







Spencer Riley

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Skills

Programming Languages

Bash Javascript Python R

Laboratory Proficiency

Oscilloscope

Development Projects

AtmosAccess:

Python atmospheric data

pacviz:

R visualization

Precipitable-Water Model Analysis Tool:

R Docker regression analysis
machine learning

Work History

Present 05 Sep 2017	Research Intern Awaiting Approval.	Institute of Complex Additive Systems Analysis
16 Aug 2017 06 Sep 2016	High School Work Study 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.	National Security Agency

Education

May 2022 Aug 2017	B.Sc. Physics Astrophysics and Atmospheric Physics Option Minor in Mathematics GPA: 3.26	New Mexico Institute of Mining and Technology
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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: docs.pmat.app
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