








Spencer Riley


 (505)205-9115


 sriley.dev


 academic@sriley.dev

 0000-0001-7949-9163

 rgate.sriley.dev

 blog.sriley.dev

 github.sriley.dev

 board.sriley.dev

Skills

Programming Languages

- R
- Python
- Bash
- Javascript
- HTML

Laboratory Proficiency

- Oscilloscope

Development Projects

pacviz:

- R
- visualization

Precipitable-Water Model Analysis Tool:

- R
- regression analysis
- Docker
- machine learning

Work History

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

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

Publications

Under Review	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings
	<i>Vicki Kelsey, Spencer Riley, Kenneth Minschwaner</i>
	Atmospheric Measurement Techniques

Presentations

Jan 2020	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings
Boston, MA	<i>Vicki Kelsey, Spencer Riley</i>
	American Meteorological Society Annual Meeting 100
Nov 2019	Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Temperature Readings: Data Analysis
Providence, RI	<i>Spencer Riley, Vicki Kelsey</i>
	Physics Congress 2019

Research Projects

Jan 2019	Precipitable Water Modeling
Present	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: pmat.sriley.dev
Jan 2019	pacviz
Present	Insert Description here
	Documentation Page: pacviz.sriley.dev