








Spencer Riley

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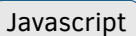
 academic@sriley.dev

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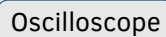
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Skills

Programming Languages

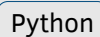
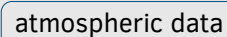
   

Laboratory Proficiency


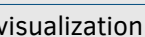


Development Projects


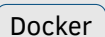
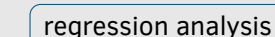
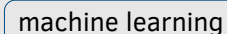
AtmosAccess:

pacviz:

Precipitable-Water Model Analysis Tool:

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 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