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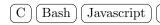


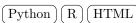
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### **Development Experience**







Android `

GCloud GitHub

Raspberry Pi ) (Arduino

## 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.

## $16~\mathrm{Aug}~2017$

### 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

Vicki Kelsey, Spencer Riley, Kenneth Minschwaner Atmospheric Measurement Techniques

10.5194/amt-2021-130

## Presentations

Jan 2020 Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared

Boston, MA **Temperature Readings**Vicki Kelsey, Spencer Riley

American Meteorological Society Annual Meeting 100

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Nov 2019 Atmospheric Precipitable Water and its Correlation with Clear Sky Infrared Providence, RI Temperature Readings: Data Analysis

Spencer Riley, Vicki Kelsey Physics Congress 2019

# Research Projects

## Present The Precipitable Water Project

Jan 2019

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

### Present Some Analysis for Looking at the Sun's Atmosphere

Sept 2021

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: salsa.sriley.dev