Lauren Hill-Beaton

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# Education

### **Atmospheric Science M.S.** | January 2022 | Rutgers University, New Brunswick, NJ

### **Meteorology B.S.** | May 2018 | Rutgers University, New Brunswick, NJ

# Awards

### **CAIT UTC Student of the Year Award** | 2021 | Rutgers University, New Brunswick, NJ

# Related Courses

|  |  |  |
| --- | --- | --- |
| • Physical Climatology | • Introduction to GIS | • Advanced GIS |
| • Physical Meteorology | • Computational Methods | • Remote Sensing |
| • Calculus I-IV | • Atmospheric Physics | • Tropical Meteorology |

# Related Experience

## Graduate Research Assistant | Rutgers University | Feb 2021 – Feb 2022

## Calculated flood inundation using 100-year flood scenario and road infrastructure data within ArcPro

## Compiled, organized and manipulated road infrastructure data using Excel and ArcGIS

## Performed GIS operations using a variety of geoprocessing tools such as spatial analysis

## Extracted, cleaned and georeferenced images for further analyses

## Created map visualizations using shapefiles, raster/vector data and ModelBuilder within ArcPro

## Collected GPS Data for a Department of Transportation project

## Research Assistant | Rutgers University | May 2016 – Jan 2022

* Compared upper-level moisture profiles with Western Pacific Double ITCZ (DITCZ) occurrence
* Identified patterns between DITCZ events and the El Niño-Southern Oscillation
* Plotted historical precipitation distribution and Tropical Cyclone formation locations using Python
* Calculated meteorological variables such as Vorticity and Divergence using Python
* Utilized libraries such as pandas and numpy to extract and manipulate data

## Teaching Assistant | Rutgers University | Sept 2019 – May 2020

* Led Detailed Discussions using Meteorological Data
* Graded Lab Assignments
* Held Office Hours
* Collaborated with Instructor
* Answered Student Questions (in-person and via email)
* Maintained and Updated in-Class Forecast Tournament Webpage

# Related Experience

## NEAR-PEER MENTOR—RESEARCH IN SCIENCE AND ENGINEERING (RISE) PROGRAM| RUTGERS UNIVERSITY| JUNE 2021-JULY 2021

## Assisted student mentee in DITCZ identification using Python

## Provided student mentee with data and source code

## Attended weekly meetings to discuss progress and address questions