

Gerardo Carrillo-Cardenas

University of Utah Department of Atmospheric Sciences, Salt Lake City, UT, 84112

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Education

University of Utah

Master of Science: Atmospheric Science | GPA: 3.824

August 2021 – Present

- Department of Atmospheric Sciences – College of Mines and Earth Sciences
- Hallar Aerosol Research Team (HART)

University of California, Davis

Bachelor of Science: Atmospheric Science | GPA: 3.559

September 2017 – June 2021

- Department of Land, Air, and Water Resources (LAWR) – College of Agriculture and Environmental Sciences
- Igel Convective Atmosphere Group

Relevant Coursework: Engineering and Problem Solving (MATLAB), Introduction to Programming (Python), Introduction to Atmospheric Science, Atmospheric Thermodynamics and Cloud Physics, Atmospheric Dynamics, Biometeorology, Boundary-Layer Meteorology, Weather Observations and Analysis, Meteorological Instruments and Observations

Research Experience

University of Utah

Advisors:

Dr. Anna Gannet Hallar | Professor of Atmospheric Sciences

Dr. Sebastian W. Hoch | Research Assistant Professor of Atmospheric Sciences

Graduate Research Assistant

August 2021 – Present

- Helped throughout the Complex Amongst Complex Terrain (CFACT) field campaign in the Heber Valley of northern Utah. Launched radiosondes, worked a tethered balloon, and provided maintenance to field instruments.
- Currently working to understand the interface between new particle formation and boundary-layer processes by using data from the CFACT campaign and implementing programming languages such as R/RStudio and Python for data analysis.

University of California, Davis

Advisor:

Dr. Matthew R. Igel | Assistant Adjunct Professor of Cloud Physics

Undergraduate Intern

June 2020 – June 2021

- Designed coding programs using MATLAB to input numerous files of cloud data from GOES-WEST (geographically in the equatorial tropics)
- Coded programs to extract cloud-top temperatures, creating models that experimented with “clusters” of clouds based on grouping of similar cloud-top temperatures
- Identified trends in models tracking the evolution of deep convective cloud top morphology in the tropics from GOES

Honors & Awards

Dean's Fellowship | College of Mines and Earth Sciences (CMES) **August 2021**
Recipient of Citation for Outstanding Performance In Atmospheric Science | Department of LAWR
June 2021
Dean's Honor List | College of Agricultural and Environmental Sciences **Winter 2020, Spring 2018**

Activities

University of Utah

American Meteorological Society (AMS) Student Chapter **August 2021- Present**
- Participate in monthly meetings, meet new people, engage and discuss about current weather events, and learn about networking opportunities.

University of California, Davis

Weather Team **September 2020 – January 2020**
- Participated in weather forecasts four times a week (Monday – Thursday)
- Used satellite data and prediction models to predict: high and low temperatures (Fahrenheit), maximum daily wind speed (mph), and precipitation amount (inches).

Golf Club **March 2019 – June 2019**
- Participated in weekly practice sessions. Enjoyed the opportunity to meet new people and improve my golf skills.

Skills

Computational: MATLAB, Python, Linux (Basics), Excel
Other: Windows OS, Mac OS
Other languages: Spanish (fluent)