

Selina Bolella

Meteorology and Atmospheric Science

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RESEARCH EXPERIENCE

Undergraduate Researcher – Dr. Li Laifang

April 2022 - Present

- Research on the hydrological cycle, precipitation variability, and atmospheric patterns over multiple climates.
- Specifically, I am studying the impacts of the Somali Jet over the Arabian Sea on the Indian Monsoon Season by moisture tracking. I have been investigating the sources of precipitation extremes and how the hydrological cycle / moisture budget plays a part.

Research Internship – Dr. Jose Fuentes & Dr. Eugene Clothiaux

May 2022 - Present

- In connection to my NCAS-M NOAA fellowship.
- This includes examining cloud droplet activation in response to diverse chemical composition of aerosol particles, in which I am analyzing data whilst using machine learning.

LEADERSHIP & ACTIVITIES

President – National Meteorology Honor Society (Chi Epsilon Pi)

- Represents as President on behalf of the Pennsylvania State University chapter of the national meteorology honor society.

Head of Forecasting – Campus Weather Service

- Oversees forecasting shifts of the ~200 students in the Campus Weather Service.
- Encourages advancements in forecasting skills.
- Provides students with real-life experiences in meteorological forecasting
- Provides accurate weather information for clients across the Commonwealth of Pennsylvania and adjoining states.
- Provides example forecasting for the Pennsylvania State University Department of Meteorology and Atmospheric Science and any other department within any university that wishes to use our services.

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Vice President – Weather Risk Management Club

- Manages club's learning workshops and career opportunities.
- Facilitates learning skills and information related to the intersection of business and weather, emergency management, and the effect of weather conditions on society.

Member – Pennsylvania State University Branch of the American Meteorological Society

- Provides opportunities to gain knowledge about the meteorological community.

Weather Educator – Weather Outreach Education Club

- Educates community groups on weather concepts, ideas, and safety.

Storm Chaser – Storm Chasing Club

- Member of student organization to identify, increase awareness of, and report severe weather conditions.

Member – College of Earth and Mineral Sciences' Student Council

- Member

SKILLS

- Analytical thinking
- Time management
- Works well under pressure
- Problem solving
- Good communication skills
- Creativity
- Fast learner

AWARDS & ACHIEVEMENTS

- NOAA NCAS-M Fellowship
- Washington Scholarship
- Hamaker Family Scholarship
- Fiedorek Trustee Scholarship
- J & E Teas EMS Scholarship
- Matthew J Wilson Honor Scholarship
- Meteorology Al. & Faculty Trustee Scholarship
- Dean's List