

Allison Krantz

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EDUCATION AND ACCOMPLISHMENTS

Master of Science in Atmospheric Science | University of Nevada, Reno | August 2023 – Present

Bachelor of Science in Meteorology | Millersville University of Pennsylvania | August 2019 – May 2023

- Minors: Environmental Hazards and Emergency Management, Mathematics
- GPA: 3.56/4.00
- Dean's List: 2019 – 2022
- Honors College Student

Accomplishments:

- Queen of Chess Club (2013), New Holland Elementary School – beat entire club in a tournament to become leader.
- Chess Tournaments Lebanon-Lancaster Area (2012, 2013) – Placed second with team in 2012 and first in 2013 against other school districts in the region.
- Equestrian Competitions (2007 – 2011), Brownhill Stables in Narvon, PA – Won first place twice and second once in English riding competitions.

Related Courses

FORTRAN Programming for Earth Sciences Applications | Cloud Physics and Precipitation Process | Atmospheric Thermodynamics | Atmospheric Dynamics I & II | Atmospheric Radiative Transfer | Python Programming | Synoptic Meteorology Lecture-Lab | Climate Dynamics | Honors Satellite Meteorology | Honors Radar Meteorology | Disaster Management and Community Risk Reduction | Introduction to Emergency Management | Fundamentals of Safety, Health, & Environmental Issues | Introduction to Terrorism, WMD, & Homeland Security | Honors Global Climate Change: Science and Policy | Honors Course: Fire Weather Indices

RESEARCH EXPERIENCE

Honors College Thesis Research

Millersville University | *Millersville, PA*

Department of Earth Sciences

Thesis Advisor: Dr. Greg Blumberg

Mentor: Dr. Ralph Kahn of NASA'S Goddard Space Flight Center

May 2022 – August 2023

Mosquito Fire Generated Tornadic Vortex Case Study

IMPACTS Research Assistant

Millersville University | *Millersville, PA*

Department of Earth Sciences

Mentors: Dr. Richard Clark, Dr. Todd Sikora, and Kyle Elliot

December 2021 – March 2023

The Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms (IMPACTS) [NASA Multi-Institutional Project].

MU-PAST

Millersville University | *Millersville, PA*

Mentor: Dr. Richard Clark

December 2020 – April 2021

Millersville University Piedmont Area Storm Tracking

WORK EXPERIENCE

Graduate Research Assistant | Desert Research Institute | Reno, NV **Aug. 2023 – Present**

- Help run the Western Regional Climate Center through responding to data acquisition requests and other needs. Participate in active research projects.

Lead Forecaster | Millersville University Campus Weather Service | Millersville, PA **Sep. 2021 – May 2023**

- Produce weather discussions as well as short- and long-term forecasts with a team of student meteorologists for Millersville University and the surrounding Lancaster, PA area.

Short-Term Forecast Videos | Millersville University Weather Center | Millersville, PA **Aug. 2022 – May 2023**

- Create a short-term video forecast for the area that is recorded and available to the public.

Cashier | Kitchen Kettle Village | Intercourse, PA **May 2021 – July 2023**

- Work at a gift shop by taking care of customers, manning the cashier, stocking, cleaning, and utilizing my minimal Spanish speaking skills when required..

LEADERSHIP EXPERIENCE

President **Jan. 2023 – May 2023**

Millersville Student Chapter of the American Meteorological Society | Millersville, PA

- Supervised the club and other officers.
- Planned general meetings, led officer meetings, planned speaker series events, and ran other administration and leading responsibilities.

Vice President **May 2022 – Jan. 2023**

Millersville Student Chapter of the American Meteorological Society | Millersville, PA

- In charge of hosting Public Weather Awareness Day and helping with presidential duties.
- Plan fundraisers, schedule fun events, and reach out to professionals for our speaker series.

Secretary **Aug. 2022 – May 2023**

Angler's Association of Millersville | Millersville, PA

- Keep information up-to-date and help schedule events.

Public Weather Awareness Day Planner **2023**

Millersville Student Chapter of the American Meteorological Society | Millersville, PA

- Reach out to professionals to run tables at the event, plan activities for the public, and allocate funding for expenditures on food and equipment.
- Host weekly planning meetings to work on advertising and decorating for the event.
- Run the event and oversee vendors and students.

Meteorology Mentor **Aug. 2021 – May 2023**

Millersville University | Department of Earth Sciences | Millersville, PA

- Mentor to new freshman meteorology majors.
- Guide them with classes, adjusting to college, and providing them with necessary information for success.

Treasurer **May 2021 – May 2022**

Millersville Student Chapter of the American Meteorological Society | Millersville, PA

- Keep track of all expenditures and collection.
- Manage the funds and allocate to requesting parties.
- Plan fundraising events.

VOLUNTEER EXPERIENCE

Student Assistant at National American Meteorological Society Conference Jan. 2021, 2022, & 2023

- Moderate sessions, answer questions, run equipment, and time speakers.

Public Weather Awareness Day Volunteer Apr. 2020 & Apr. 2022

Millersville Student Chapter of the American Meteorological Society | Millersville, PA

- Run tables that need support, like making food or educating the public on weather.

Volunteer at the Wolf Sanctuary of PA | Lititz, PA Oct. 2019 – Aug. 2020

- Aid in running the sanctuary through being versatile and adaptable to whatever is needed.

ACTIVITIES

WxChallenge 2021 – 2023

- North American forecasting challenge for colleges, where we produce 8 forecasts for 5 different cities predicting the high and low temperature, max wind speed, and precipitation total.

Angler's Association of Millersville 2022 – 2023

- Club that gets together to entertain our passion for fishing.

Planning Committee Public Weather Awareness Day 2020 – 2023

- Assisted in planning the 13th and 14th annual Public Weather Awareness Day for Millersville's AMS Student Chapter

Campus Weather Service 2019 - 2023

- Produce weather discussions, short-term, and long-term forecasts with a group of meteorology majors for the Millersville and Lancaster, PA area.

Millersville Storm Tracking Team [MiST] 2019 – 2023

- Learn forecasting techniques and convene during severe weather events to work on our prediction skills.

Cantilena Women's Choir 2019 – 2021

- University choir composed only of women. We would hold two concerts annually.

Helping Paws 2019 – 2020

- Club that ran volunteer events involving animals, like making bedding, running a feral cat program, and helping at local shelters.

PRESENTATIONS

Halo Project: An Effort to Provide Continuous Meteorological Observation of the April 8th 2024 Total Solar Eclipse, (2023), Wesley Taylor, Allison Krantz, Joshua Kinsky, 103rd Annual American Meteorological Society Meeting, The Colorado Convention Center, Denver, Colorado, [oral]

MEMBERSHIPS

National American Meteorological Society 2019 - Present

Millersville Student Chapter of the American Meteorological Society 2019 - 2023

CERTIFICATIONS

Community Emergency Response Team (CERT) 2022

National Weather Service (NWS) Skywarn Spotter State College NWS Office | *No Expiration* 2020

FEMA: IS-242, IS-230, IS-00010, IS-29, IS-120, IS-130, IS-156, IS-240, IS-247, IS-394, IS-520, IS-545, IS-551, IS-662, IS-700, IS-800, IS-1300

CORE COMPETENCIES

Python | FORTRAN | Linux/UNIX | Conversant in Spanish | Microsoft Office | Windows | OS X | Microsoft Teams | Slack | Leadership | Ability to Multitask | Flexibility | Collaboration | Detail Oriented | Empathy | Team Player | Fast Learner | Research | Writing