

Jaden Lau

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EDUCATION:

Cornell University, College of Agriculture and Life Sciences, Ithaca, NY

Bachelor of Science, Atmospheric Sciences and Environment & Sustainability

May 2026

GPA: 3.73 | Dean's List: All Semesters

Relevant Coursework: Atmospheric Thermodynamics, Atmospheric Dynamics, Programming for Meteorology and Climate Science, Renewable Energy Systems, Meteorological Observations and Instruments, Numerical Techniques for Weather and Climate Modeling, Ecology and the Environment

EXPERIENCE:

GeoData Project Team: *Team Member*

Ithaca, NY

September 2023-Present

- Built towards the overall team goal of investigating soil moisture responses to extreme precipitation and coupling strength, and the relationship between surface fluxes and boundary layer heights
- Deploy weather stations and launch tethersondes to collect data in field projects
- Tested dust-collecting kite-sondes at Arizona in collaboration with Northern Arizona University

Precipitation and Climate Research Group: *Undergraduate Research Assistant*

Ithaca, NY

January 2023-Present

- Analyzed correspondence between precipitation and resulting streamflow
- Investigating terrain influence on atmospheric river precipitation amounts
- Present poster at conferences, communicating research to professionals & students

National Oceanic and Atmospheric Administration (NOAA): *William M. Lapenta Intern*

College Park, MD

June 2025-August 2025

- Engaged in AiRMAPS field campaign to survey Baltimore and Marcellus Shale regions for methane emissions and urban air pollution
- Operated in situ gas analyzing instruments on both aircraft and ground vehicle platforms
- Incorporated mass-balance, ethane:methane source attribution techniques, among others to quantify and analyze methane production

Oak Ridge National Lab: *Science Undergraduate Laboratory Internship Research Intern*

Oak Ridge, TN

January 2025-May 2025

- Researched forest ecosystem evapotranspiration responses to climate change induced temperature increases, to understanding land-atmosphere interactions in Global Climate Models.
- Operated Cryoextraction System to analyze water isotopic ratios in plant soil samples and investigate plant water uptake

Central Philippines State University: *Independent Researcher*

Negros Occidental, Philippines

July 2023-August 2023

- Modeled a Philippine watershed to help community manage changes & predict impacts in land use, land management practices & climate change using Soil and Water Assessment Tool & ArcGIS
- Engaged with local farmers, lawmakers, professionals & universities

Undergraduate Leadership Workshop at National Center for Atmospheric Research: *Associate*

Boulder, CO

June 2023

- Engaged in leadership training emphasizing qualities of effective leadership

- Solved challenging problems with methods scientists use and team dynamics

Radar Institute at University of Illinois Urbana-Champaign: *Student*

Champaign, IL

June 2023

- Studied radar theory under professional storm chasers
- Designed & implemented field campaign to collect data & measurements from a storm

Ithaca College Broadcasting: *Associate*

Ithaca, NY

September 2022-November 2022

- Developed slides and presented weather forecast for Ithaca College Newswatch Broadcast
- Sharpened weather communication skills through weekly weather presentations

CAMPUS INVOLVEMENT:

Cornell Chapter of the American Meteorological Society: *Member*

August 2022-Present

- Deliver weather presentations to Cornell meteorology community, engage in conferences

Christian Community: *Small group leader, Men's ministry, Worship team*

August 2022-Present

- Active involvement in Christian Union, Cru, Asian American InterVarsity, Claritas
- Engaged in service trips; rebuilding homes from Mayfield tornado and provided for impoverished communities in Mexico & Philippines

Wind Symphony: *Oboist*

August 2022-Present

- Treasurer during the 2023-2024 school year
- Expand my deep passion for music, perform in bi-semesterly concerts
- Engaged with music community and performed in several concerts at Cuba Performance Tour

Mapping Society: *Member*

February 2023-Present

- Hone my mapping skills along with other passionate students
- Develop understanding in GIS

SKILLS AND ACHIEVEMENTS:

Eagle Scout

Scouts BSA Thomas Edison Supernova Award

- Highest award that a Boy Scout can earn in the STEM fields and recognizes superior achievement

Microsoft Excel Specialist: Excel Associate: *Certified*

GIS: *Intermediate Proficiency*

Python: *Intermediate Proficiency*