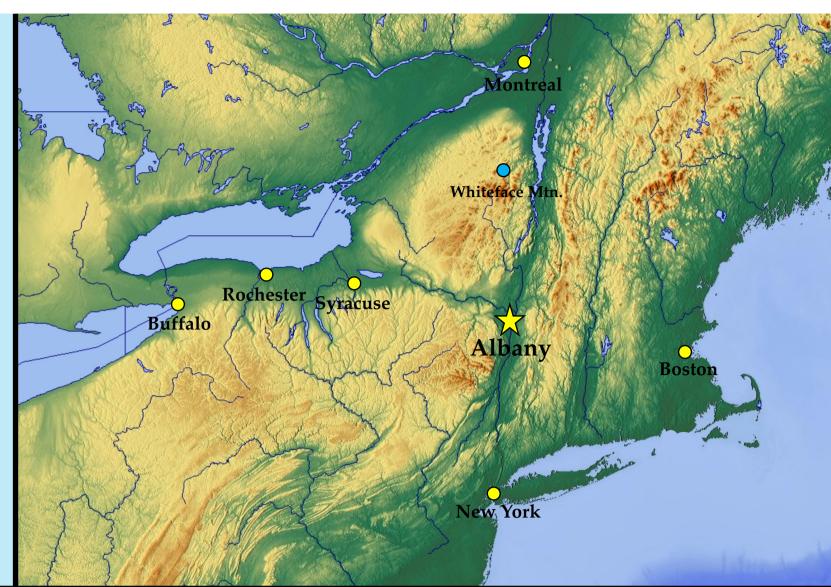
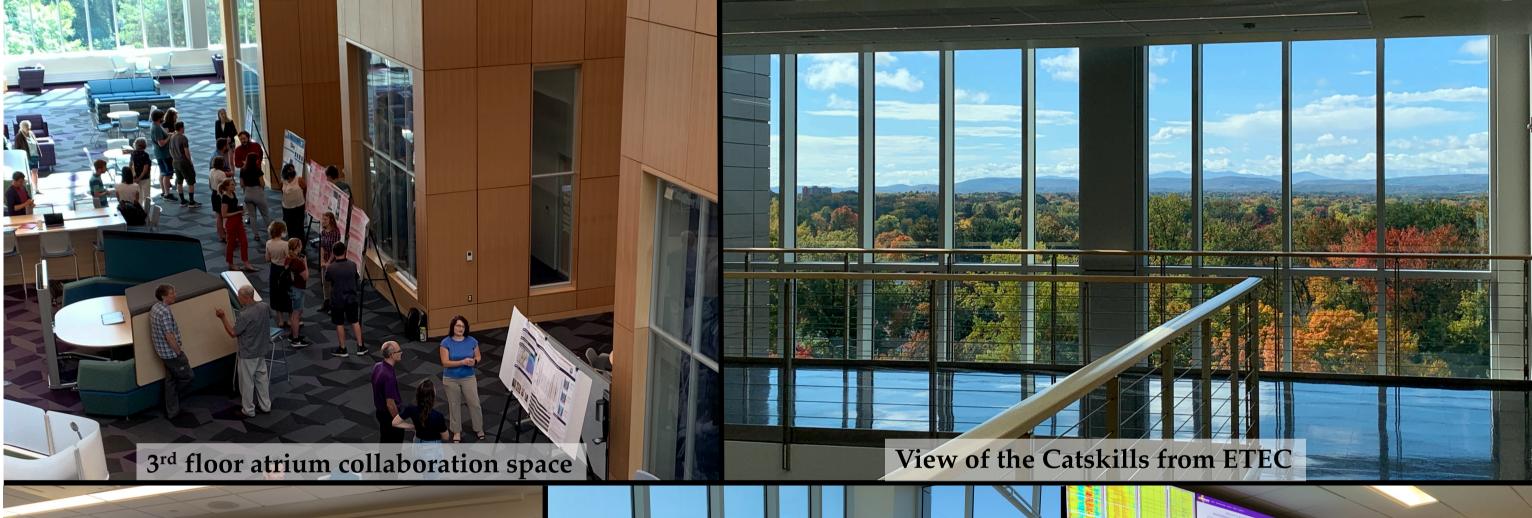


The Department of Atmospheric and Environmental Sciences (**DAES**) and Atmospheric Sciences Research Center (**ASRC**) are housed in the beautiful **ETEC Building**, on the east side of UAlbany's Uptown Campus.

Completed in 2021, the ETEC building is home to:

Atmospheric and Environmental Sciences
Atmospheric Sciences Research Center
Albany's National Weather Service WFO
State Weather Risk Communication Center (SWRCC)
New York State Mesonet (NYSM)
Center of Excellence in Weather and Climate Analytics
Emergency Preparedness, Homeland Sec., Cybersecurity
Environmental and Sustainable Engineering
Electrical and Computer Engineering
...and more

















Atmospheric Science PhD and MS Program

Course Requirements

- Two courses in Atmospheric Physics and Chemistry (ATM 504 and 505)
- Two courses in Atmospheric Dynamics (ATM 500 and one of several electives)
- Two additional classes with ATM designation (Most students end up taking more)

Additional Requirements

Masters Degree

~ MS Thesis (Two to three years)

PhD Degree

- ~ PhD written exam (Typically in third year)
- ~ Written PhD proposal (Typically fourth year)
- ~ PhD thesis (Five to six years, without prior MS)



Assistantships

Research assistant (RA)

~ Students paid by their advisor's grant

Teaching assistant (TA)

- ~ Students paid by University during academic year, advisor's grant during summer
- ~ Assigned to assist an instructor in teaching a specific course



Applied Atmospheric Science MS Program

Course requirements

Choose **four** of:

- ~ Synoptic Laboratory II
- ~ Climate Variability and Predictability
- ~ Renewable Energy
- ~ Advanced Geophysical Data Analysis and Visualization

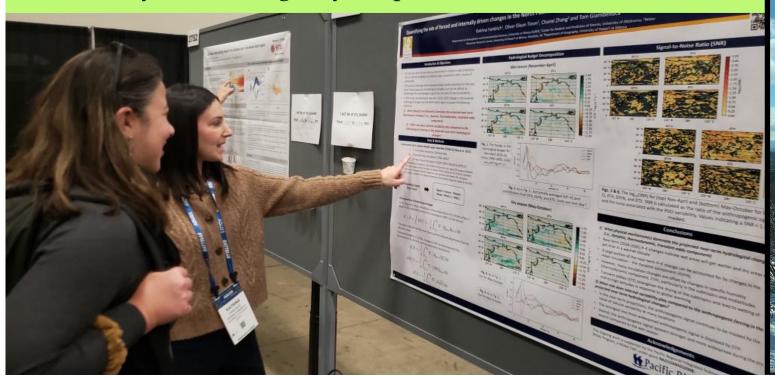
View of the Catskills from ETEC

- ~ Applications of Subseasonal to Seasonal Dynamics
- ~ Weather, Climate Change, and Societal Impacts
- ~ Climate Change
- ~ Applied Data Analysis in Atmos./Env. Science
- ~ Applications of Numerical Weather Prediction
- ~ Energy, Environment, and Climate Change
- ~ Remote Sensing

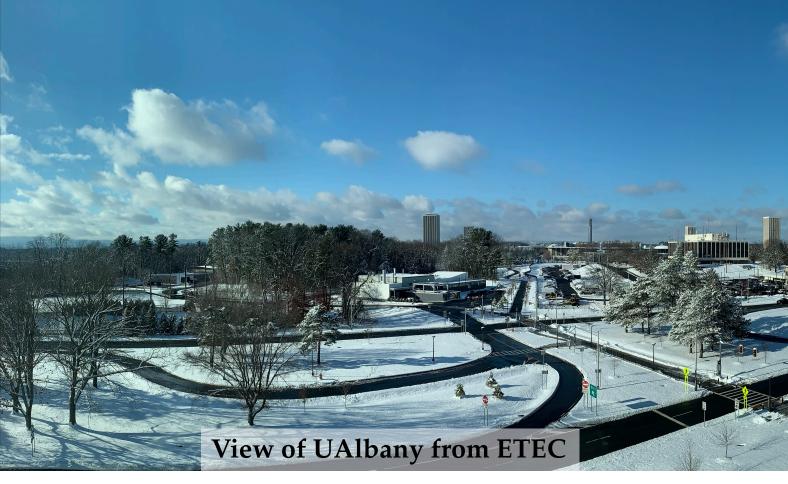
Capstone requirement: Arranged internship

Remaining courses from one of four tracks:

- ~ Business
- ~ Data Analytics
- ~ Policy and Emergency Preparedness











Faculty in the Department of Atmospheric and Environmental Sciences and the Atmospheric Sciences Research Center provide research opportunities and courses in the following areas:

Synoptic-Dynamic Meteorology • Tropical Cyclones • Remote Sensing

Climate Change • Paleoclimatology • Artificial Intelligence

Numerical Weather Prediction • Climate Dynamics • Atmospheric Chemistry

Mesoscale Meteorology (Convection, Severe Weather, Lake-effect Precipitation)

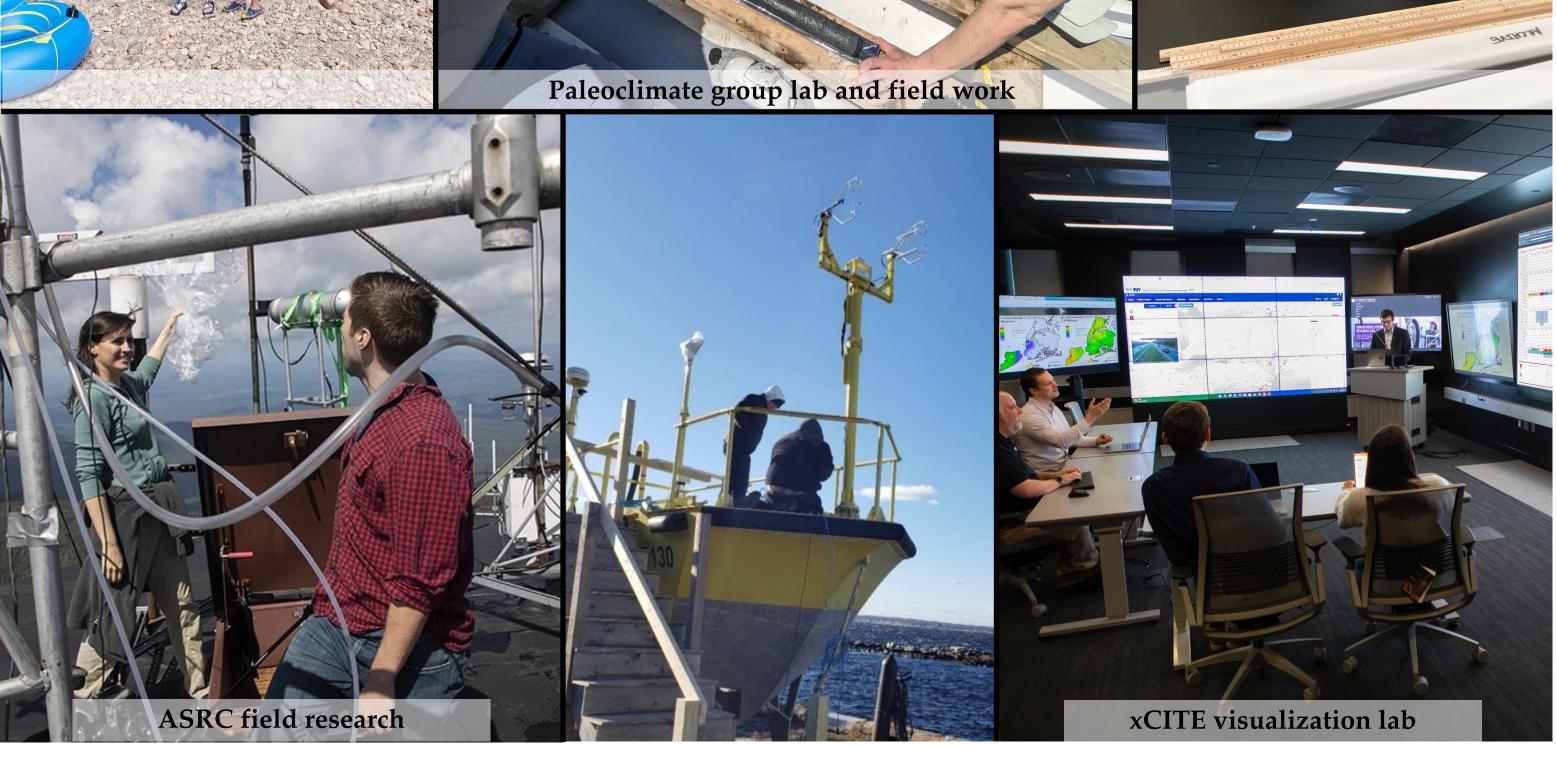
Urban Meteorology • Boundary Layer Meteorology • Air Pollution

Meteorological Data Analysis and Visualization • Climate Modeling

Seasonal and Subseasonal Forecasting • Tropical Meteorology • Solar and Wind Energy

Mountain Meteorology • Data Assimilation • Hydroclimate







External speakers

- Weekly seminars
- Career development discussions

Informal seminars

- Climate Group
- Mesonet Forum
- ASRC Colloquy





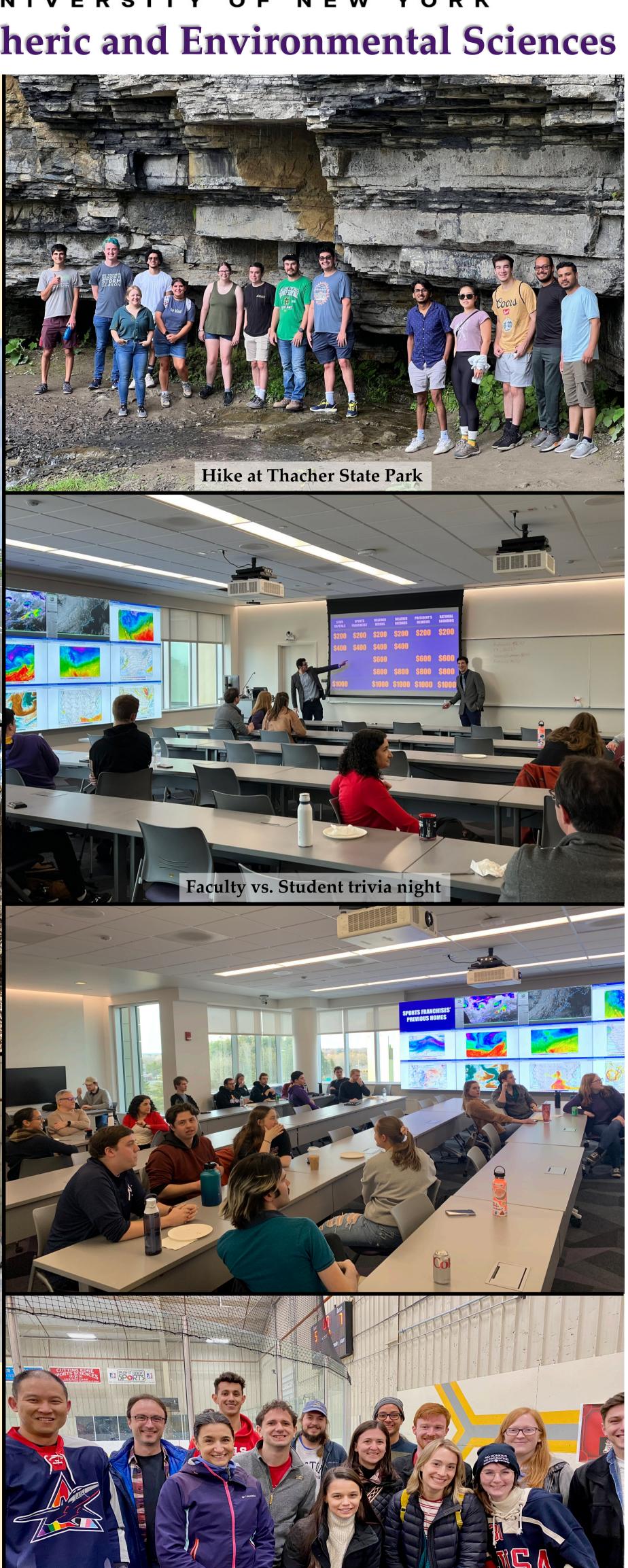


Map discussions

- ~ Tropical meteorology
- ~ Weather analysis and forecasting
- ~ High-impact weather events

Leadership and outreach

- ~ Graduate Program
- ~ Inclusion and Diversity Committee
- ~ Faculty meetings
- ~ Graduate Student Organization
- ~ Public schools, STEM programs



Skating before Prof. Brian Tang's hockey game