Our Department

The University of Illinois Department of Atmospheric Sciences is the home of 16 faculty, more than 50 graduate students and more than 90 undergraduate students. The Department has been at the forefront of research and education since its inception in 1982. We offer a unique and varied program of graduate training and research, built around the fundamental scientific tools of our discipline: observation, modeling and theory.

Graduate Student Career Development

We promote the career development of our graduate students through many avenues. Graduate students are given opportunities to attend national and international conferences and are strongly encouraged to publish their research in top atmospheric science journals. Many students participate in field campaigns, workshops, or in other scientific forums. Students also have opportunities to interact with experts from National Center for Supercomputing Applications (NCSA), Illinois State Water Survey, National Weather Service and various other departments on campus.

Graduate Research Assistantship Opportunities in Fall 2016 (Topics and numbers of openings)

- **Larry Di Girolamo**: new satellite mission development (1); new cloud and aerosol remote sensing algorithms for existing satellites and Big Data challenges (1); problems in 3-D radiative transfer through cloudy atmospheres (1); field experiments to study cloud-aerosol-radiation interactions (1).
- **Francina Dominguez**: land–atmosphere interactions over South America (1)
- **Deanna Hence**: orographic influence on extratropical cyclone fronts (1), tropical cyclone surface wind loads (1)
- **Atul Jain**: impacts of climate variability/change on crop productivity using an earth system model (1)
- **Sonia Lasher-Trapp**: high-resolution simulations of entrainment in cumulus clouds (1) and influence of microphysics upon cold pool and resulting secondary convection (1); relative importance of warm rain and ice processes to heavy convective rainfall (1).
- **Greg McFarquhar**: model representation of ice cloud properties and processes (1), microphysics of nocturnal thunderstorms (1)
- **Steve Nesbitt**: radar and microphysical studies of precipitation (1, co-advise with McFarquhar), scatterometer observations of the dynamics/mesoscale structure of oceanic heavy precipitation events (1)
- **Bob Rauber**: orographic cloud processes (1)
- **Nicole Riemer**: aerosol-cloud microphysics and chemistry process modeling (1); scientific computing and algorithms for petascale aerosol models (1)
- **Ryan Sriver**: climate change uncertainties and impacts (1)
- **Jeff Trapp**: connections between severe thunderstorms and climate change/variability (1); convective dynamics and predictability (1)
- **Zhuo Wang**: subseasonal to seasonal prediction and predictability of weather and climate extremes (1); vorticity and convective evolution leading up to tropical cyclone formation (1).
- **Donald Wuebbles**: Climate impacts (1 or 2)

We will also offer 8-10 teaching assistantships for other research topics. To apply online, go to http://www.grad.illinois.edu/admissions/apply. Deadline: January 15.

Question about our graduate program? Contact Dr. Zhuo Wang (zhuowang@illinois.edu)