

# DEPARTMENT OF ATMOSPHERIC SCIENCES

<http://atmo.tamu.edu> (<http://atmo.tamu.edu/>)

**Head:** R. Saravanan

**Graduate Chair:** I. Szunyogh

Thesis and non-thesis Master of Science as well as Doctor of Philosophy degrees are offered in atmospheric sciences. Students from disciplines other than meteorology are encouraged to enroll in our graduate program. Normal prerequisites are 12 hours of calculus and differential equations and 8 hours of physics. The department offers a basic sequence of courses each year that covers key topics of atmospheric relevance in the areas of fluid dynamics, thermodynamics, cloud physics, radiation, and chemistry. These courses form a base for a large number of the other graduate courses. By the end of their first year, students typically have made arrangements to begin a research project directed by a faculty member. Faculty interests span a wide range extending from field and laboratory work through data analysis, numerical modeling, and theory. Please see the department's website at <http://atmo.tamu.edu> (<http://atmo.tamu.edu/>) for more information. Persons with an MS degree in atmospheric sciences typically obtain employment with government agencies, industrial organizations, and consulting firms, or they may enter the meteorological branch of one of the military services. The PhD degree is normally required for a college level teaching or research career.

The Department of Atmospheric Sciences occupies the upper floors in the 15-story David G. Eller Building for Oceanography and Meteorology. The 10-cm Doppler weather radar on top of the building is a campus landmark, and the department jointly operates two mobile radars. In-house laboratory facilities and fixed and mobile observing suites offer many opportunities for physical and chemical studies of the atmosphere. The department is well-equipped for data analysis and modeling, with a high-speed network, numerous personal computers, teaching laboratories, and high-performance computing systems. Additional computing resources are available at the University's Supercomputing Facility.

## Faculty

Bowman, Kenneth P, Professor  
Atmospheric Sciences  
PHD, Princeton University, 1984

Brooks, Sarah D, Professor  
Atmospheric Sciences  
PHD, University of Colorado, 2002

Conlee, Don T, Instructional Professor  
Atmospheric Sciences  
PHD, Texas A&M University, 1994

Dessler, Andrew E, Professor  
Atmospheric Sciences  
PHD, Harvard University, 1994

Epifanio, Craig C, Associate Professor  
Atmospheric Sciences  
PHD, University of Washington, 1999

Korty, Robert L, Associate Professor  
Atmospheric Sciences  
PHD, Massachusetts Institute of Technology, 2005

Liu, Xiaohong, Professor  
Atmospheric Sciences  
PHD, Nanjing University, China, 1992

Logan, Timothy S, Assistant Professor  
Atmospheric Sciences  
PHD, University of North Dakota, 2014

Nielsen-Gammon, John W, Regents Professor  
Atmospheric Sciences  
PHD, Massachusetts Institute of Technology, 1990

Nowotarski, Christopher J, Associate Professor  
Atmospheric Sciences  
PHD, Pennsylvania State University, 2013

Panetta, Richard L, Professor  
Atmospheric Sciences  
PHD, University of Wisconsin, 1978

Rapp, Anita D, Assistant Professor  
Atmospheric Sciences  
PHD, Colorado State University, 2004

Saravanan, Ramalingam, Professor  
Atmospheric Sciences  
PHD, Princeton University, 1990

Schade, Gunnar W, Associate Professor  
Atmospheric Sciences  
PHD, Johannes Gutenberg Universitat at Germany, 1997

Schumacher, Courtney, Professor  
Atmospheric Sciences  
PHD, University of Washington, 2003

Szunyogh, Istvan, Professor  
Atmospheric Sciences  
PHD, Hungarian Academy of Sciences, 1994

Xu, Yangyang, Assistant Professor  
Atmospheric Sciences  
PHD, University of California at San Diego, 2014

Yang, Ping, University Distinguished Professor  
Atmospheric Sciences  
PHD, University of Utah, 1995

Zhang, Renyi, University Distinguished Professor  
Atmospheric Sciences  
PHD, Massachusetts Institute of Technology, 1994

## Masters

- Master of Science in Atmospheric Sciences (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/atmospheric-sciences/ms/>)

## Doctoral

- Doctor of Philosophy in Atmospheric Sciences (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/atmospheric-sciences/phd/>)