

SAINT LOUIS UNIVERSITY™

GRADUATE EDUCATION

Meteorology

+ College of Arts and Sciences

Saint Louis University is a world-class Catholic, Jesuit institution educating nearly 13,000 students on two dynamic, urban campuses - in St. Louis, Missouri, and Madrid, Spain. Founded in 1818, the University is celebrating its bicentennial.

With a legacy of innovative academics and research, compassionate health care and faithful service, Saint Louis University attracts a diverse community of scholars who push intellectual boundaries in pursuit of creative, meaningful ways to impact the world, striving to serve a higher purpose and seek a greater good.

OVERVIEW >>

The department of Earth and atmospheric sciences offers two graduate degrees in meteorology: a Master of Science (M.S.) and a Doctor of Philosophy (Ph.D). The programs provide students with advanced study and research on the atmosphere's role as the centerpiece of the interconnected, interactive global environmental system within which life thrives.

M.S.:

This program is geared to students planning to enter the doctoral program after completion or work in a research capacity (e.g., NASA or National Oceanic and Atmospheric Administration contractor), or who desire enhanced qualification for forecasting positions. The Master of Science degree requires 24 credit hours of coursework and six credit hours of thesis research.

Ph.D.:

A total of 30 credit hours beyond the master's degree, including 12 credit hours of dissertation research, is required to complete the Ph.D. program.

CONTACT INFORMATION >>

Zaitao Pan, Director

EMAIL | zaitao.pan@slu.edu

PHONE | 314-977-3114

WEB | slu.edu/arts-and-sciences/earth-atmospheric-sciences

APPLICATION DEADLINE >>

M.S.	Ph.D.
FALL April 1	April 1
SPRING Nov. 1	Nov. 1
SUMMER April 1	April 1

Deadlines for assistantships are listed online.

DEGREES & PROGRAMS >>

- Master of Science (M.S.) in Meteorology
- Doctor of Philosophy (Ph.D.) in Meteorology

COURSES AVAILABLE >>

DAYS NIGHTS WEEKEND ONLINE

APPLICATION REQUIREMENTS >>

- Application form and fee (if applicable)
- Transcript(s)
- GRE general score
- Three letters of recommendation
- Résumé or curriculum vitae
- Goal statement

ADMISSION CRITERIA >>

With a solid application, there are no additional admission requirements. For every applicant, a committee examines and reviews each application holistically.



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FACULTY >>

There are currently 16 full-time faculty members in the department of Earth and atmospheric sciences, all of whom have doctorate degrees in their field of expertise. We also have several research scientists and adjunct faculty who teach and/or do research in the department. The meteorology program has seven full-time faculty members and one adjunct instructor.

William Dannevik, Ph.D.: Fluid dynamics, climate prediction, turbulence modeling

Catherine Finley, Ph.D.: Numerical modeling and observations of severe storms and tornado dynamics, atmospheric dynamics (baroclinic instability), and wind energy prospecting and forecasting

Jack Fishman, Ph.D.: Satellite studies of atmospheric composition and pollution, global pollution and crops

Benjamin de Foy, Ph.D.: Air pollution, mesoscale flows, use of remote sensing, field campaign analysis

Charles E. Graves, Ph.D.: Climate statistics, climate variability, problems in remote sensing of rainfall

Zaitao Pan, Ph.D.: Regional climate change, seasonal precipitation and soil moisture forecasts

Robert W. Pasken, Ph.D.: Dynamic and thermodynamics of squall lines, thermodynamic parameters from radar

Mike Roberts: TV forecast meteorology

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PROGRAM HIGHLIGHTS >>

Recognition:

The department is a founding member of the University Corporation for Atmospheric Research, which manages the National Center for Atmospheric Research (NCAR), in Boulder, Colorado, under the sponsorship of the National Science Foundation and NASA's DEVELOP program.

Career Paths:

Graduates have found employment in academia (universities, NCAR), federal and state government agencies (National Weather Service, Federal Aviation Administration, NASA, Environmental Protection Agency, departments of natural resources) and the private sector (atmospheric and agricultural research and service firms, weather forecasting operations, air quality assessment companies).

FINANCIAL SUPPORT >>

Financial aid is available either through a teaching assistantship or a research assistantship. These are available on a competitive basis. Applications must be received by Feb. 1.



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