

Graduate Study in Mathematics



University of Utah Salt Lake City



www.math.utah.edu/grad

The Graduate Program

The Department of Mathematics offers programs leading to the degree of Doctor of Philosophy and several masters degrees: Master of Arts and Master of Science in Mathematics, Master of Statistics, Master of Science in Mathematics with Emphasis in Teaching, Master of Computational Engineering and Science, Master of Science for Secondary School Teachers and Professional Master in Science and Technology.

The goal of our program is to provide mathematical breadth and high quality research training in an informal and pleasant atmosphere with small class sizes and individual attention. To this end, although the University of Utah has over 31,000 students, the Department maintains a relatively small number of graduate students. We have an active and expanding research faculty and an extensive program of postdoctoral instructors and distinguished visiting scholars. A broadly based graduate curriculum and research seminars create a rich environment for learning and research.



Scholarships

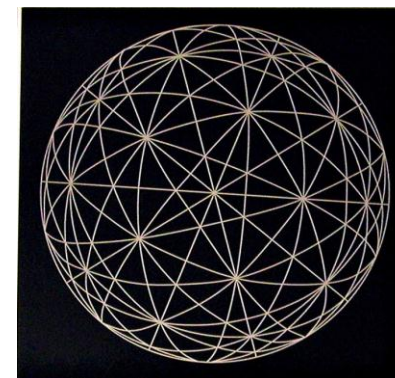
Financial support is available as teaching assistantships and research assistantships. Support levels start from \$15,000. Academic year tuition waivers and health benefits are included.

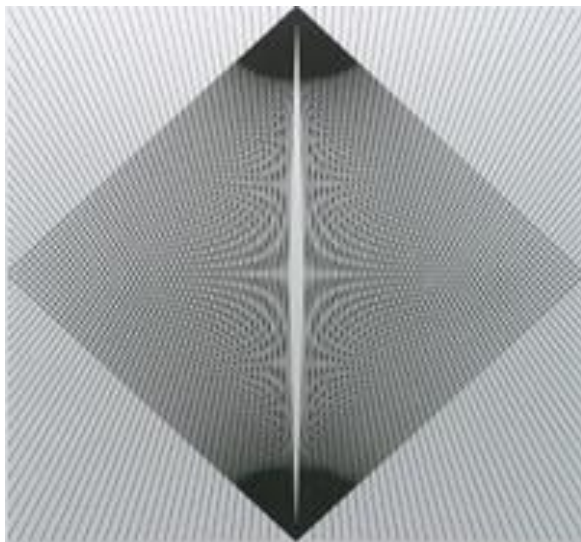
Research Areas

algebraic geometry
commutative algebra
differential geometry
geometric group theory
group & representation theory
materials & fluids
mathematical biology
mathematical finance
number theory
numerical analysis
partial differential equations
probability
statistics

The University

The University of Utah is located at the foot of the Wasatch mountains and overlooks Salt Lake City, the cultural, commercial and professional center of the Intermountain West. The University is accredited by the Northwest Association of Schools and Colleges. The Mathematics Department was ranked by a 2009 NRC Study in the top 25 public universities, as defined by the American Mathematical Society.





For more information & to apply, visit
www.math.utah.edu/grad

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Artwork(top) by Anna Campell Bliss.

For New Graduate Students

The Department has developed special courses to help graduate students adjust to graduate life. This was made possible by the support of two recent NSF-VIGRE (Vertical Integration of Research and Education) grants.

Entering students who are new to teaching take the two week departmental TA Training Workshop before fall classes start. The TA training is led by faculty who are outstanding teachers. Students prepare syllabi and tests, and give practice lectures daily, some of which are videotaped. During the semester, students meet with their course coordinators periodically to discuss classroom issues.

A necessary part of any professional mathematician's education is to acquire an appreciation of mathematics beyond their area of interest, especially about other mathematics being done at Utah. Three courses are specifically meant to address this: Survival, Graduate Colloquium, and Early Research Directions. The Survival Course, taken by first year students, focusses on tools of the mathematician: internet, library, presentation graphics, and writing and lecturing on research. Our graduate students run a popular weekly Graduate Colloquium which is open to all. Advanced students and faculty present interesting topics at a first year student level. The ERD course offers faculty the chance to present over several lectures a fairly detailed introduction to their areas of study.

Salt Lake City

In surveys of newcomers, the most frequently mentioned advantages to graduate life in Salt Lake City are the congenial atmosphere in the

Department, the low cost of living and the recreational opportunities. Salt Lake City is close to some of the most spectacular recreation sites in North America. Hiking, rock climbing, biking, boating fishing and excellent skiing are nearby. Bryce, Zion, Arches, Monument Valley, and Canyonlands National Parks, seven national monuments, two national recreation areas, and one national historic site are all within a day's drive of campus.



Besides the acclaimed Ballet West, Utah Symphony and Utah Opera, independent theater and music performances thrive in the Valley.

In addition to an intercollegiate sports teams, Utah is now a member of the PAC 12, Salt Lake City has major league soccer (Real Salt Lake), basketball (Utah Jazz) and minor league hockey (Grizzlies), baseball (Bees) and arena football (Blaze) teams. For more information consult the Utah travel site www.utah.com.

The Utah Transit Authority (UTA) provides transportation via bus routes and light rail lines. Enrolled University students receive a free UTA year-round pass.

Photo Arches Natl. Park (front) & Lake Blanche (above) by Peter Alfeld