



Graduate Programs in Mathematics

Brandeis' Department of Mathematics recruits exceptional students from around the globe and prepares them to excel as both teachers and researchers. Our faculty specialize in areas including algebra, analysis, topology, number theory, combinatorics, applied mathematics, and mathematical physics. We are committed to fostering an inclusive community by bringing together individuals from diverse backgrounds to celebrate and expand the power of mathematical thinking.

Our PhD program is ranked each year among the top graduate programs in Mathematics by US News & World Report. Students in the program learn how to present mathematical concepts, including their own work, through advanced reading courses, seminars, and major and minor exams. A structured Teaching Practicum, involving four semesters of undergraduate teaching, enhances their instructional, organizational, and leadership skills. Our PhD students also have the opportunity to attend seminars and conferences, with annual funding available to help with travel costs.

Advanced courses equip our master's students to apply for PhD programs in pure or applied mathematics, physics, and other sciences. Students in the master's programs also develop competencies that can lead to careers in fields like financial analysis and data science. MS students may further develop their research abilities by writing and presenting a thesis with faculty approval.



Our Program Offerings

- **Doctorate of Philosophy**
- **Master of Science**
- **Master of Arts**
- **Postbaccalaureate Program**



Our Faculty

Our faculty includes five Fellows of the American Mathematical Society (AMS), three Simons Fellows, a Guggenheim Fellowship recipient as well as a past President of the American Mathematical Society (AMS). Two math faculty members have recently received the Dean's Mentoring Award for "outstanding ability as a mentor" in the supervision of graduate students.



Our Alumni

Alumni of the PhD program include the winners of the 2022 Bhatnagar Prize, the 2021 Veblen Prize, the 2019 Abel Prize, the 2017 Shaw Prize, and the 2013 Alan Turing Award.

Research Groups

Algebraic Geometry

An Huang

Combinatorics and Algorithms

Olivier Bernardi, An Huang, Kiyoshi Igusa

Data Science

Tyler Maunu, Thomas Fai

Dynamical Systems

Dmitry Kleinbock, Jonathan Touboul, Yangyang Wang

Lie Groups and Representation Theory

Dmitry Kleinbock

Mathematical Biology

Thomas Fai, Jonathan Touboul, Yangyang Wang

Mathematical Physics

An Huang, Bong Lian

Number Theory

Dmitry Kleinbock, Omer Offen

Probability and Random Matrix Theory

Olivier Bernardi, Jonathan Touboul

Topology and Geometry

Carolyn Abbott, Daniel Álvarez-Gavela, Kiyoshi Igusa

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