About 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.

How we prepare our PhD students for careers in academia and industry

Through courses in algebra, topology, geometry and analysis and elective courses, students develop broad and deep knowledge.

Opportunities for students to develop professionally by attending conferences at other schools with $500 a year available to each student to cover costs.

Advanced reading courses, seminars and major and minor exams help students learn how to present mathematical materials and their own results in particular.

Through dissertation writing, students attain research expertise and complete a significant body of original research results.

Our structured Teaching Practicum with four semesters of undergraduate teaching strengthens instructional skills but also develops communication, organizational and leadership skills.

Research Groups

Algebraic Geometry
An Huang, Alan Mayer

Combinatorics and Algorithms
Olivier Bernardi, An Huang, Kiyoshi Igusa

Data Science
Tyler Maunu, Thomas Fai

Dynamical Systems
Dmitry Kleinbock, Jonathan Touboul

Lie Groups and Representation Theory
Dmitry Kleinbock

Mathematical Biology
Thomas Fai, Jonathan Touboul

Mathematical Physics
An Huang, Bong Lian

Number Theory
Dmitry Kleinbock, Omer Offen

Probability and Random Matrix Theory
Mark Adler, Olivier Bernardi, Jonathan Touboul

Topology and Geometric Group Theory
Carolyn Abbott, Ruth Charney, Kiyoshi Igusa, Daniel Ruberman

How we prepare our MA/MS students for careers in academia and industry

Through courses in algebra, topology, and analysis, students develop broad and deep knowledge.

Advanced courses prepare students to apply for a PhD program in pure or applied mathematics, physics, and other sciences. Students develop competencies that lead to careers in financial analysis and data science.

MS students develop research skills through the option to write and present a thesis (with approval of the faculty).
About Brandeis

There is no other place like Brandeis. As a medium-sized private research university with global reach, we are dedicated to first-rate undergraduate and graduate education while making groundbreaking discoveries. Our 235-acre campus is located in the suburbs of Boston, a global hub for higher education and innovation. We are driven by academic excellence, a reverence for learning, and inclusivity — values in keeping with the history of the University. Its faculty includes nationally and internationally recognized teachers, scholars and researchers. Brandeis supports innovative and exciting programs of learning and research that emphasize an interdisciplinary approach to knowledge for problems facing the world in the 21st Century.

The Graduate School of Arts and Sciences

The Graduate School of Arts and Sciences at Brandeis University is a center for pioneering investigation embedded in the cooperative environment of a student-centered, medium-size research university. We are driven by academic excellence, a reverence for learning, and inclusivity — values in keeping with the history of the University. The smaller size of our doctoral, master’s and postbaccalaureate programs enables scholars to build close relationships with our world-class faculty and conduct interdisciplinary research across traditional academic boundaries. For additional information about the our doctoral, master’s, and postbaccalaureate programs, as well as contact information and how to apply, please visit [https://www.brandeis.edu/mathematics/](https://www.brandeis.edu/mathematics/)

For additional information on the graduate programs in Mathematics contact:

Professor Omer Offen
Director of Graduate Study
affen@brandeis.edu

Anna Esposito
Academic Administrator:
scigradoffice@brandeis.edu

Visit our website:
[https://www.brandeis.edu/mathematics/](https://www.brandeis.edu/mathematics/)

Brandeis University endeavors to foster a just and inclusive campus culture that embraces the diversity of the larger society.

415 South Street
Waltham, Massachusetts
02453

About Our Students

To complete the PhD program, students typically take five years. Students complete seven core courses in algebra, analysis and topology as well as the Second Year Seminar and Teaching Practicum. To broaden their studies, students complete the minor exam and take advanced reading courses and, to prepare for their dissertation work, they complete a major exam. Their program culminates with the defense of their dissertation.

Brandeis University

Mathematics

- Doctor of Philosophy in Mathematics
- Master of Arts in Mathematics
- Master of Science in Mathematics
- Postbaccalaureate Program in Mathematics