

# Mathematics and Statistics: MSc, PhD

Graduate students in the Department of Mathematics and Statistics have the opportunity to make a substantive contribution to solving important scientific and societal problems in a wide variety of areas. In addition to our Master's and PhD programs in Mathematics and Statistics, we participate in the Collaborative Specializations in Artificial Intelligence and One Health; and the Bioinformatics and Biophysics Graduate Programs.

[mathstat.uoguelph.ca](http://mathstat.uoguelph.ca)

## PROGRAM

We offer both Master's and Doctoral programs. The Doctoral program typically requires 3–4 years to complete. Master's students can choose to complete their degree by thesis or by major research project. A master's thesis typically requires 1–2 years to complete and a master's major research project typically requires 1 year to complete.

## RESEARCH FIELDS

- Applied Mathematics
- Applied Statistics

## ADMISSION REQUIREMENTS

For the Master's program, an honours degree with the equivalent of a major or minor in mathematics or statistics, with a minimum B– average over the last two years of full-time equivalent study.

For the Doctoral program, a recognized Master's degree obtained with high academic standing is required.

For application advice and tips, consult the Graduate Application Checklist on our department website.

### Application Deadlines:

Domestic – June 30  
International – February 28  
Entry: Fall



*"I wanted to study at a university that is highly acclaimed for high academic standards and one that offers a welcoming environment to students with diverse backgrounds. My academic advisor is very kind, and always tries to help me achieve high academic excellence."*

– Radia Taisir (2020 MSc, Statistics)

## FACULTY RESEARCH AREAS

The Department of Mathematics and Statistics is an active department with 23 faculty and over 50 graduate students. Specific research interests include:

- Agent-Based Simulations
- Applied Analysis
- Artificial Intelligence
- Bioinformatics
- Biomathematics
- Biostatistics
- Computational Statistics
- Data Science
- Dynamical Systems
- Infectious Disease Modeling
- Machine Learning
- Matrix Analysis
- Mathematical Modelling
- Numerical Analysis
- Operations Research
- Quantum Computing
- Scientific Computing
- Statistical Genetics
- Survival Analysis

## ARE YOU INTERESTED IN:

- Developing, analyzing and utilizing novel mathematical and statistical tools
- Collaborating with industrial, academic and governmental partners
- Helping to solve important scientific and societal problems

## CAREER OPPORTUNITIES:

- Visit our department website to see career profiles of recent graduates and a list of over 30 careers recently available in Mathematics and Statistics: [mathstat.uoguelph.ca/careers](http://mathstat.uoguelph.ca/careers)

## CONTACT INFORMATION

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