Collaborative Specialization in Artificial Intelligence: MASc, MSc

The interdisciplinary graduate collaborative specialization provides thesis-based Master’s students (in Bioinformatics, Computer Science, Mathematics and Statistics, and Engineering) with a diverse knowledge base in artificial intelligence (AI) methodologies and ethical issues. Students learn from a multidisciplinary team of faculty members, while conducting AI-related research guided by a faculty supervisor.

uoguelph.ca/ceps/csai

Program

Through a combination of online learning, lectures, and experiential learning opportunities, students gain expertise in programming, algorithmic thinking, mathematical foundations and statistical analysis for AI, optimization, and data visualization.

Students complete 5 AI-related courses (2.25 graduate credits worth) and an AI-related thesis. Requirements of the collaborative specialization may serve as core and/or elective requirements in the student’s home program.

More information on home program-specific requirements can be found at: uoguelph.ca/ceps/csai.

Research Domains

Graduate faculty associated with the Collaborative Specialization in Artificial Intelligence are experts in a variety of research domains, including:

- Natural language processing
- Computer vision
- Human-computer interaction
- Autonomous vehicles
- Automation
- Cybersecurity
- Robotics
- Precision agriculture

Application Deadline:

Ongoing

Admission Requirements

Prospective students must first meet the admission requirements of a participating home program, which includes Bioinformatics (MSc), Computer Science (MSc), Engineering (MASc), and Mathematics and Statistics (MSc). Once the student is admitted to a home program, their application will be forwarded to the Collaborative Specialization’s Graduate Program Coordinator for review.

Partners

We are a Vector Institute-recognized master’s program. Students who are enrolled in the University of Guelph Collaborative Specialization in Artificial Intelligence are eligible to apply for Vector Scholarships in Artificial Intelligence, valued at $17,500 each. You can find more information at the Vector Institute website: vectorinstitute.ai/aimasters/#scholarships

ARE YOU INTERESTED IN:

- Artificial intelligence
- Machine learning
- Bioinformatics
- Neural networks
- Optimization
- Software engineering
- Image processing

CAREER OPPORTUNITIES:

- Machine learning researcher
- Computer vision, software or data engineer
- Data scientist
- Statistician

CONTACT INFORMATION

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