The University of Waterloo’s David R. Cheriton School of Computer Science is the largest academic concentration of computer science researchers in Canada — we have more than 100 faculty members, 60 administrative, instructional and technical staff, 4,000 undergraduate students and 400 graduate students.

### Research Areas

- Algorithms and complexity
- Artificial intelligence
- Bioinformatics
- Computer algebra and symbolic computation
- Computer graphics
- Cryptography, security, and privacy
- Data systems
- Formal methods
- Health informatics
- Human computer interaction
- Machine learning
- Programming languages
- Quantum computing
- Scientific computation
- Software engineering
- Systems and networking

### New faculty members

- **Yousra Aafer**
  Systems Security and Software Engineering
- **Chengnian Sun**
  Software Engineering and Programming Languages
- **Toshiya Hachisuka**
  Creative Informatics and Computer Graphics
- **Yizhou Zhang**
  Programming Languages and Software Engineering
- **Shane McIntosh**
  Empirical Software Engineering
- **Jian Zhao**
  Information Visualization, Human Computer Interaction and Data Science
- **Rafael Oliveira**
  Optimization and Computational Complexity

### Highlights

- **Johnny Wong**
  Most Influential Paper Award, CASCON 2019
- **Ming Li**
  2020 McGuffey Longevity Award from Textbook & Academic Authors Association
- **Jason Hu, Ondřej Lhoták**
  Distinguished Paper Award, POPL 2020
- **Brad Glasbergen, Michael Abebe, Khuzaima Daudjee, Daniel Vogel, Jian Zhao**
  Best Demo Award, 2020 ACM SIGMOD
- **Stavros Birmpilis**
  Distinguished Student Author Award, ISSAC 2020
- **Rahul Iyer, Alex Yun, Mei Nagappan, Jesse Hoey**
  ACM SIGSOFT Distinguished Artifact Award
- **Vikram Subramanian**
  ACM Student Research Competition, ICSE 2020
- **Hung Pham**
  ACM SIGSOFT Distinguished Paper Award
- **Amine Mhedhbi**
  Microsoft Research PhD Fellowship
- **Jameson Weng**
  Governor General’s Silver Medal
- **Steven Feng, Shannon Veitch**
  Honorable mention, CRA 2020 Outstanding Undergraduate Researcher Awards
- **Waterloo undergraduate programmers**
  First place, East Central North America ICPC regional contest
- **Ihab Ilyas**
  Start-up Inductiv Inc. acquired by Apple
- **Bin Ma**
  Start-up Rapid Novor Inc. receives $5-million USD to decode antibodies for potential treatments for COVID-19 and other diseases