David R. Cheriton School of Computer Science

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

Toshiya Hachisuka
Creative Informatics and Computer Graphics

Shane McIntosh
Empirical Software Engineering

Rafael Oliveira
Optimization and Computational Complexity

Chengnian Sun
Software Engineering and Programming Languages

Yizhou Zhang
Programming Languages and Software Engineering

Jian Zhao
Information Visualization, Human Computer Interaction and Data Science

Highlights

Raouf Boutaba, Srinivasan Keshav
Fellows of the Royal Society of Canada

Florian Kerschbaum
ACM Distinguished Member
CS-Can/Info-Can Outstanding Young Computer Science Researcher

Wes Graham
CS-Can/Info-Can Posthumous Lifetime Achievement Award

Shai Ben-David
University Research Chair

Shai Ben-David, Yaoliang Yu
Canada CIFAR AI Chairs

Jo Atlee
2020 IEEE Technical Council on Software Engineering Distinguished WISE Leadership Award

Nashid Shahriar, Sepehr Taeb, Shihabur Chowdhury, Mubeen Zulfiqar, Massimo Tornatore, Raouf Boutaba, Jeebak Mitra, Mahdi Hemmati
Best Paper Award, CNSM 2019

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

Sergey Gorbunov, Gautam Kamath, Jian Zhao
Natural Sciences and Engineering Research Council of Canada Discovery Accelerator Supplements

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

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