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 475 graduate students.

Our CS research areas

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

Our new faculty members

Sepehr Assadi
Algorithmic graph theory, communication complexity, online algorithms, algorithmic game theory

Sihang Liu
Computer architecture, programming and system support for new and emerging architectures

Yang Lu
ML and statistical methods for genomics and proteomics data analysis

Sujaya Maiyya
Distributed data management, fault tolerance, data privacy and security

Pengyu Nie
ML and NLP for software engineering, software testing and formal verification

Shlomi Steinberg
Computer graphics, rendering and light transport, ray and wave optics

Hong Zhang
Large-scale data analytics, distributed ML training and serving systems, application and network scheduling, data centre networking, serverless computing and cloud computing

Our highlights

Cheriton School of Computer Science, top-ranked CS program in Canada for third year in a row
Maclean's 2023 University Rankings

Cheriton School of Computer Science, 22nd CS program internationally
2022 Quacquarelli Symonds World University Subject Rankings

Robin Cohen
Lifetime Achievement Award in Computer Science, CS-Can | Info-Can

Jimmy Lin
ACM Fellow

Wenhu Chen, Xi He, Gautam Kamath
Canada CIFAR AI Chairs

Sepehr Assadi
Sloan Research Fellowship

Distinguished Professor Emeritus Don Cowan
J.W. Graham Medal in Innovation and Computing

Charles Clarke, Jimmy Lin
Induction into ACM SIGIR Academy

Jo Atlee, ECE colleague Krzysztof Czarnecki, former students
10-year most influential paper award, VaMoS 2023

Daniel Berry, Sri Fatimah Tjong
Most influential paper award, REFSQ 2023

Jeremy Chen, Yuqing Huang, Mushi Wang, Semih Salihoğlu, Kenneth Salem
Best Experiment, Analysis and Benchmark Paper Award, VLDB 2022 • 2022 ACM SIGMOD Research Highlight Award

Ende Jin, Yizhou Zhang, Harvard colleague Nada Amin
Distinguished paper award, PLDI 2023

Stacey Watson, Rochester Institute of Technology colleagues
Best paper award, MobileHCI 2022

Ryusuke Sugimoto, Christopher Batty, Toshiya Hachisuka
Best paper award, SCA 2022

Niki Hasrati, Shai Ben-David
Best paper award, ALT 2023

Nikhita Joshi, Antony Albert Raj Irudayaraj, Jeremy Hartmann, Daniel Vogel
Best paper award, SUI 2022

Muhammad Sulaiman, Mahdieh Ahmadi, Mohammad A. Salahuddin, Raouf Boutaba, Rogers colleague Aladdin Saleh
Best paper award, NOMS 2023

Lindsey Tulloch, Ian Goldberg
Best student paper award, PETS 2023

Ramazan Rakhmatullin, Andrew Qi Tang, Kevin Wan
First place, 2023 International Collegiate Programming Contest North America Championship

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UNIVERSITY OF WATERLOO | FACULTY OF MATHEMATICS **DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE**