

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, and more than 4,000 undergraduate students and 400 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



Mina Tahmasbi Arashloo
Networked systems,
software-defined networking,
programmable data planes



Hongyang Zhang
Machine learning, AI security
and privacy, trustworthy
machine learning

Our highlights

Cheriton School of Computer Science, top-ranked CS program in Canada for second year in a row
Maclean's 2022 University Rankings

Cheriton School of Computer Science, ranked 25th CS program internationally
2022 Quacquarelli Symonds World University Subject Rankings

Jo Atlee
2022 ACM SIGSOFT Distinguished Service Award

Ihab Ilyas
2021 Fellow of the Institute of Electrical and Electronics Engineers

Ming Li
2022 Fellow of the Canadian Academy of Engineering

Shane McIntosh
2022 Ontario Early Researcher Award

Former CS student Vitalik Buterin
Named 30 under 30 by Forbes

Universal blockchain interoperability network Axelar, co-founded by Sergey Gorbunov
Raises \$35 million USD Series B funding, joins ranks of unicorns

Float, co-founded by Cheriton School of Computer Science alumni Griffin Keglevich and Ruslan Nikolaev
Secures \$37 million CAD in new investments

Chengnian Sun and colleagues
Most Influential Paper Award, SANER 2022

Anil Pacaci, M. Tamer Özsu, and colleague Angela Bonifati
Best Paper Award, ICDE 2022

David Radke, Tim Brecht, and colleague Daniel Radke
Best Research Paper Award, LINHAC 2022

Shihab Chowdhury
Best Dissertation Award, NOMS 2022

Soheil Johari with Nashid Shahriar, Massimo Tornatore, Raouf Boutaba and Aladdin Saleh
Best Student Paper Award, NOMS 2022

Muhammad Sulaiman, Arash Moayyedi, Mohammad A. Salahuddin, Raouf Boutaba and Aladdin Saleh
Best Paper Award, NOMS 2022

Ryan Goldade
2021 Alain Fournier Doctoral Dissertation Award

Nicholas Vadivelu, runner-up Kelvin Jiang, finalist Sourav Biswas and Vikram Subramanian, honourable mentions
2022 CRA Outstanding Undergraduate Researcher Awards

Chris Trevisan, Wen Yuen Pang, Marian Dietz
Second in east division, fourth overall, 2022 ICPC North America Championship

