

# 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 are home to an exceptional community of distinguished researchers, including 14 Fellows of the Royal Society of Canada, 10 Fellows of ACM, 8 Fellows IEEE, and 9 Canada CIFAR AI Chairs.

## 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



### Curtis Bright

- computer-assisted proofs
- satisfiability solving
- symbolic computation
- discrete mathematics
- experimental mathematics
- number theory



### Federico Mora

- automated reasoning
- programming language theory
- formal methods
- distributed systems



### Santhoshini Velusamy

- theoretical computer science
- algorithms and complexity
- streaming algorithms
- algorithmic game theory

## Our highlights

### Raouf Boutaba

Canada Research Chair in Network Intelligence

### Marina Meila

Canada Research Chair in Reliable Structure Discovery

### Edith Law

Inaugural Google Chair, Future of Work and Learning

### Shai Ben-David

2025 Fellow, Royal Society of Canada

### Marina Meila

Canada CIFAR AI Chair

**Gautam Kamath** with Ilias Diakonikolas, Daniel Kane, Jerry Li, Ankur Moitra, Alistair Stewart  
2026 Gödel Prize

### Gautam Kamath

2026 Presburger Award

### Florian Kerschbaum

2026 Fellow, IEEE

### Yizhou Zhang

2026 AITO Dahl-Nygaard Junior Prize

### Jian Zhao

2025 Early Career Research Award, CS-Can | Info-Can

### Noura Limam

Salah Aidarous Award, NOMS 2026

**Ian Goldberg** with Aniket Kate, Gregory Zaverucha

Test-of-Time Award, 2025 Asiacrypt

**Chengnian Sun** with Vu Le, Zhendong Su

Most Influential Paper Award, OOPSLA 2025

**Freda Shi** with Changbing Yang, Franklin Ma, Jian Zhu

Outstanding Paper Award, EMNLP 2025

**Muhammad Sulaiman, Mahdieh Ahmadi, Mohammad Salahuddin, Raouf Boutaba**  
with Aladdin Saleh

2025 CNOM Best Paper Award

**Yelizaveta Brus, Rungroj Maipradit, Shane McIntosh** with Earl T. Barr

ACM SIGSOFT Distinguished Paper Award, ASE 2025

**Diogo Barradas, Urs Hengartner**

with Cheng Tang, Yue Hu  
Best Research Paper, ARES 2025

**Besat Kassaie, Andrew Kane, Frank Tompa**

Best Paper Award, DocEng25

**Evelien Riddell, James Riddell, Gengyi Sun,**  
with Michał Antkiewicz, Krzysztof Czarnecki

ACM SIGSOFT Distinguished Paper Award, FORGE 2026

### Nikhita Joshi

2026 Governor General's Gold Medal

### Ryusuke Sugimoto

2026 Eurographics PhD Award, 2025 Alain Fournier PhD Dissertation Award, SCA Doctoral Dissertation Award

**Niloy Saha, Noura Limam, Yang Xiao, Raouf Boutaba**

Best Paper Award, NOMS 2026

### Xiao Hu

2026 SIGMOD Research Highlight Award

**Haochen Sun, Xi He**

2026 SIGMOD Research Track Best Paper

**Helia Yazdanyar, Sepehr Assadi**

Best Paper Award, SOSA 2025

**Aswad Tariq, Alexandru Bara, Urs Hengartner**

Best Paper Award, SACMAT 2026

**Shlomi Steinberg** with Matt Pharr

Best Paper Honourable Mention, Eurographics 2026

**Gautam Kamath** with Da Yu, Saurabh Naik, Arturs Backurs, Sivakanth Gopi, Huseyin A. Inan, Janardhan Kulkarni, Yin Tat Lee, Andre Manoel, Lukas Wutschitz, Sergey Yekhanin, Huishuai Zhang  
Runner-up, Caspar Bowden Award, PETS 2026

**Kevin Guo, Kai Wen (Kevin) Yang, Kelly Dance**

Silver medal, 2026 ICPC North America Championship

