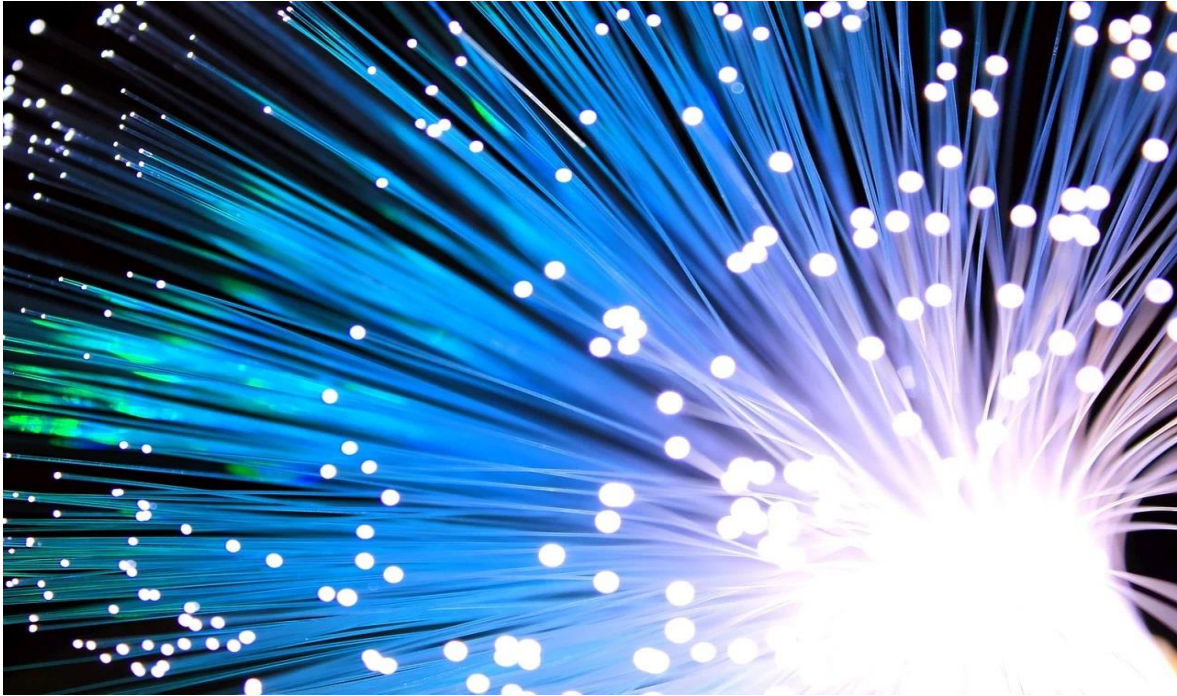




Digital Overground

Cybersecurity and Privacy Institute Student Newsletter



Presenting the November issue of Digital OverGround! As the end of the semester fast approaches, with snow and various weather-related hurdles well on their way, we would like to wish everyone the very best of luck with their exams and studies. Remember, university is as much about broadening your experiences as much as your mind, take the time to focus on people and building community when you can, we can all benefit from learning from and supporting others! To relate this to matters of a cybersecurity and privacy aspect, take the time to make sure the less tech savvy people in your life know how to avoid email and phishing scams, especially as we approach the holiday season, there are a ton of shopping related online hustlers out there.

For those who are interested in contributing to this newsletter, please email us at [CPI Students <cpi.students@uwaterloo.ca>](mailto:cpi.students@uwaterloo.ca) we need the support and welcome the input!

Upcoming Events

[Gala Concert](#)

[Board Game Night @ Graduate House](#)

[Mason Jar Soup Day @ Outside Graduate Lounge \(SLC 3216\)](#)

[Out in Tech | Queering the Future 2.0](#)

[Career Fair: Exclusive Tech](#)

[Waterloo Job Fair](#)

["EMBRACING UBUNTU" Black Mental Health Gala](#)

[Waterloo Career Fair](#)

[Movie Night: Elf at CMH](#)

[Warm Cookies & Hugs at CMH](#)

Student Support and Resources

[Campus Wellness and Counselling Services](#)

[CPI for Students](#)

[Current Students Pathways](#)

[CPI Undergraduate Award](#)

[CPI Excellence Graduate Scholarship](#)

[The Vector Digital Talent Hub](#)

Research

[A Win for Game Theory in the Data Center](#)

CPI Member S. M. Zahedi, B. C. Lee

[Toward Reducing Cross-Shard Transaction Overhead in Sharded
Blockchains](#)

Liuyang Ren, Paul A. S. Ward, and CPI Member Bernard Wong

[What Can We Learn From Studio Studies Ethnographies?: A “Messy”
Account of Game Development Materiality, Learning, and Expertise](#)

CPI Member Jennifer R. Whitson

[The New Spirit of Capitalism in the Game Industry](#)

CPI Member Jennifer R. Whitson

[OneButtonPIN: A Single Button Authentication Method for Blind and Low
Vision Users to Improve Accessibility and Prevent Eavesdropping](#)

Manisha Kamarushi, CPI Member Stacey L. Watson, Garreth W. Tigwell, and Roshan L. Peiris

What Accountants Need to Know about Blockchain

Jesús Calderón, CPI Member Theophanis C. Stratopoulos

Workplace Surveillance in Canada: A Survey on the Adoption and Use of Employee Monitoring Applications

CPI Members Danielle E. Thompson & Adam Molnar

The Case for Distributed Shared-Memory Databases with RDMA-Enabled Memory Disaggregation

Ruihong Wang - Jianguo Wang - Stratos Idreos
CPI Member M. Tamer Özsu - Walid G. Aref

ALLOSAUR: Accumulator with Low-Latency Oblivious Sublinear Anonymous credential Updates with Revocations

CPI Member Samuel Jaques - Michael Lodder - Hart Montgomery

Open Calls

NVIDIA Graduate Fellowship Program

The [Vector Digital Talent Hub](#) encourages students to create profiles on their website to apply for a variety of employment opportunities. | Vector Institute

[ICITST 2023 : International Conference for Internet Technology and Secured Transactions](#)

[WatITis 2023](#)

In the Media

- **Podcast of the Month:** [Cybersecurity Today – Ransomware gang posts data stolen from Canadian point of sale provider](#)
- [ICS Cybersecurity Conference](#)
- [US Agencies Publish Cybersecurity Report on Deepfake Threats](#)
- [Canadian Military, Police Impacted by Data Breach at Moving Companies](#)
- [Hacktivism: What's in a Name... It May be More Than You Expect](#)
- [Threat Intel: To Share or Not to Share is Not the Question](#)
- [Over \\$1 Million Offered at New Pwn2Own Automotive Hacking Contest](#)
- [Cybersecurity is a great career. \(even when it's challenging\)](#)
- [Cyber Security In 7 Minutes | What Is Cyber Security: How It Works? | Cyber Security | Simplilearn](#)

Student Spotlights

CPI would like to congratulate Sajin Sasy on being awarded the 2023 [CPI Cybersecurity and Privacy Excellence Graduate Scholarship](#) sponsored by MasterCard.

We would also like to congratulate Andrew Dong, Samuel Orend, Taya Davison, Willard Ma, and Angie Yuliana Zuluaga for each receiving a [CPI Undergraduate Award](#) for the Spring 2023 Semester.

Seen anything that you think should be on this list for our next edition? Let us know!

[CPI Students <cpi.students@uwaterloo.ca>](mailto:cpi.students@uwaterloo.ca)



Btor2MLIR

A Format and Toolchain For Hardware Verification
Joseph Tafese, Isabel Garcia-Contreras, Arie Gurfinkel



This month's student spotlight comes to us from Joseph Tafese/ECE, with his work entitled: [**Btor2MLIR: A Format and Toolchain for Hardware**](#)

Verification

Joseph presents an alternative format and toolchain, called Btor2MLIR, based on the recent MLIR framework. The advantage of Btor2MLIR is in reusing existing components from a mature compiler infrastructure, including parsers, text and binary formats, converters to a variety of intermediate representations, and executable semantics of LLVM.

[Find Out More about Digital Overground](#)

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