



Digital Overground

Cybersecurity and Privacy Institute Student Newsletter



Presenting the July edition of Digital Underground, for your consideration. We hope everyone has had an opportunity to do something fun and holiday-esque over the semester, we all know that school can seem like an endless grind if we don't take the time to do something fun and turn the screens off! May we suggest [Grand River Conservation Areas](#) as a local and affordable way to hit the beach, camp, or just go hang with some lovely trees. [Guelph Lake](#) is of particular note, offering multiple things to do and is pretty close by.

CPI would also like to remind everyone that the following classes in the Fall 2023 semester are eligible for the [CPI Undergraduate Award](#): AFM 347, CO 487, CS 458, GBDA 303, GBDA 414, SOCI/LS 305, SOC/LS 413, and SOC/LS 435 .

Please take a moment to review this page as it lists the other classes for future semesters that will also be eligible for these awards.

We hope you enjoy the material we put together for this edition; here is our standard cattle call for people who would like to contribute to this newsletter, please email us at [CPI Students <cpi.students@uwaterloo.ca>](mailto:cpi.students@uwaterloo.ca) we would welcome the help!

Upcoming Events

[ETH Women Hackathon](#)
&
[ETH Toronto Hackathon](#)

[2023 Cybersecurity and Privacy Institute Annual Conference
w/ CPI Students Conference Poster Session](#)

[World Chess Day](#)

[UW Food Truck Wednesday](#)

[Systems Design Engineering Alumni Virtual Roundtables](#)

[UW Sustainability Events July BioBlitz](#)

[Summer in the City: Jazz Ensemble Concert](#)

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

[An Algorithm for Persistent Homology
Computation Using Homomorphic Encryption](#)

Dominic Gold – CPI Member Koray Karabina - Francis C. Motta

[Local Community Care-based Activism and Civic Engagement Among Canadian Arab
Youth](#)

Melissa Finn - CPI Member Bessma Momani

[Canada's Right-Wing Extremists: Mapping their Ties, Location, and Ideas](#)

CPI Member Bessma Momani - Ryan Deschamps

[QuORAM: A Quorum-Replicated Fault Tolerant
ORAM Datastore
\(video\)](#)

CPI Member Sujaya Maiyya - et. al.

[Rate Reduction of Blind Quantum Data Compression with
Local Approximations Based on the Unstable Structure of Quantum States](#)

Kohdai Kuroiwa – CPI Member Debbie Leung

Open Calls

[2023 IEEE 9th Information Technology International Seminar \(ITIS\)](#)

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

USENIX Security '23 [Call for Papers](#)

[CSITAI 2023 : International Conference on Computer Science, Information Technology & AI](#)

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

[CyberHunt 2023 : 6th Annual Workshop on Cyber Threat Intelligence and Hunting](#)

In the Media

- Podcast of the Month: [Cyber Security Today: This episode reports on the jailing of an IT security analyst who tried leverage a cyber attack to extort money from the U.K. company he worked for, an AI chatbot for crooks, and more](#)

- [Exploring Trust, Privacy, and Security in Machine Learning, Natural Language Processing and AI – CPI Member Gautam Kamath](#)
- [CPI Spotlight - Discussing Interdisciplinarity & Research with Prof. Plinio Morita](#)
- [How Google Writes Debt Free Code](#)
- [If I Could Give Advice to Myself When Starting as a Software Engineer](#)
- [Cyberinsurance Backstop: Can the Industry Survive Without One?](#)
- [A Cybersecurity Wish List Ahead of NATO Summit](#)
- [A Battlefield AI Company Says It's One of the Good Guys](#)
- [Satellites are Rife with Basic Security Flaws](#)
- [North Korean State-Sponsored Hackers Suspected in JumpCloud Supply Chain Attack](#)
- [A Few More Reasons Why RDP is Insecure \(Surprise!\)](#)
- [Technology and the Need for Integration in Public Education](#)

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)

Student Spotlight

Caring about Sharing: User Perceptions of Multiparty Data Sharing

Bailey Kacsmar, Kyle Tilbury, Miti Mazmudar, Florian Kerschbaum

The July Student Spotlight focuses on Siddharth Priya. Their Poster Presentation entitled [“SEAURCHIN: Bounded Model Checking for Rust”](#) deals with Bounded Model Checking as an effective way to enable whole program analysis of Rust programs, where they have built a pre-processing pipeline for SEAHORN called SEAURCHIN and use it to ascertain conditions for two standard library components String and RefCell to not panic at runtime.

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Our mailing address is:

200 University Ave W. DC 3147 Waterloo, Ontario N2L 3G1