



Digital Overground

Cybersecurity and Privacy Institute Student Newsletter



This is our final newsletter for 2023, thank you for your interest over the past year!
As the holidays begin, we want to wish everyone a safe and happy break, with the
very best of wishes for peace and prosperity to all in the New Year.

We hope your exams go well and we look forward to engaging with you next
semester!

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

[Waterloo Job Fair](#)

[International Hot and Spicy Day at V1](#)

[Medieval Times at CMH](#)

[Cooking Show at Fed Hall](#)

[Lunar New Year at REV](#)

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

[Epidemiological Implications of War: Machine Learning Estimations of the Russian Invasion's Effect on Italy's COVID-19 Dynamics](#)

Dmytro Chumachenko, Tetiana Dudkina, Tetyana Chumachenko, and CPI Member Plinio Pelegrini Morita

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

CPI Member Bessma Momani and Ryan Deschamps

[Metal: An Open Architecture for Developing Processor Features](#)

Siyao Zhao and CPI Member Ali José Mashtizadeh

[Simple, Fast and Widely Applicable](#)

[Concurrent Memory Reclamation via Neutralization](#)

Ajay Singh, Trevor Alexander Brown, and CPI Member Ali José Mashtizadeh

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 – This episode reports on a warning of a vulnerability in the SSH protocol, the latest multi-million person data breaches and more](#)
- [Cybersecurity Certificate Tier List \(2023\)](#)
- [Which Cyber Security specialisation is best? | Pros and Cons](#)
- [Every “Thing” Everywhere All at Once](#)
- [Hackers Earn \\$350k on Second Day at Pwn2Own Toronto 2023](#)
- [Bad Bots Account for 73% of Internet Traffic: Analysis](#)
- [In Other News: Ukraine Hacks Russia, CVE for Water ICS Attacks, New Intel Xeon CPUs](#)
- [ESO Solutions Data Breach Impacts 2.7 Million Individuals](#)
- [Prove Identity Snags \\$40M Funding for ID Verification Tech](#)

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 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.

Privacy-Preserving Ownership Transfer: Challenges and An Outlined Solution Based on Zero-Knowledge Proofs

Mohammadtaghi Badakhshan, Guang Gong

Our final student spotlight of 2023 comes to us from Mohammadtaghi Badakhshan/ECE, with his work entitled: [Privacy-Preserving Ownership Transfer: Challenges and An Outlined Solution Based on Zero-Knowledge Proofs](#).

Although employing blockchain in supply chain management (SCM) can provide benefits in numerous aspects such as traceability, transparency, and more, using public blockchain for SCM may compromise the privacy of the supply chain participants and their business secrets. Here, they review recent papers that integrate blockchain with SCM and the papers that propose privacy-preserving approaches for public blockchain. Then, they identify the problem in the existing solutions and present an outline of a framework that enables entities in a supply chain to upload their data records anonymously.

[Find Out More about Digital Overground](#)

Copyright © 2023 Cybersecurity and Privacy Institute University of Waterloo - All rights reserved.

Our mailing address is:

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