Shannon Veitch

Education

ETH Zürich Doctoral Student

2022-present

Applied Cryptography Group. Advisor: Kenny Paterson

University of Waterloo MMath, Computer Science

2020 - 2022

Cryptography, Security, and Privacy (CrySP) Lab. Advisor: Doug Stinson

Thesis: Contextualizing Alternative Models of Secret Sharing

University of Waterloo BMath, Combinatorics and Optimization Graduated With Distinction — Dean's Honours List

2016 - 2020

Gradatica With Distinction Dean

Publications

- 1. T. Humphries, R. A. Mahdavi, S. Veitch, and F. Kerschbaum. Selective MPC: Distributed Computation of Differentially Private Key-Value Statistics. *To appear at CCS 2022*.
- 2. N. Bindel, D. Stebila, and S. Veitch. Improved attacks against key reuse in learning with errors key exchange. In Patrick Longa, Carla Ràfols, editors, *Proc. 7th International Conference on Cryptology and Information Security in Latin America (LATINCRYPT) 2021, LNCS.* Springer, October 2021.
- **3.** D. R. Stinson and S. Veitch. Block-avoiding point sequencings of arbitrary length in Steiner triple systems. Australasian Journal of Combinatorics **77** (2020), 87-99.
- **4.** D. Kreher, D. R. Stinson, and S. Veitch. Block-avoiding point sequencings of Mendelsohn triple systems. *Discrete Mathematics* **343** (2020), 111799.
- **5.** D. Kreher, D. R. Stinson, and S. Veitch. Block-avoiding point sequencings of directed triple systems. *Discrete Mathematics* **343** (2020), 111773.
- **6.** C. J. Colbourn, D. R. Stinson, and S. Veitch. Constructions of optimal orthogonal arrays with repeated rows. *Discrete Mathematics* **342** (2019), 2455-2466.

Technical Reports

- 7. D. Kreher, D. R. Stinson, and S. Veitch. Good sequencings for small Mendelsohn triple systems. 121 pages. September 2019.
- 8. D. Kreher, D. R. Stinson, and S. Veitch. Good sequencings for small directed triple systems. 305 pages. July 2019.

Employment History

Dept. of Combinatorics and Optimization, University of Waterloo Undergraduate Research Assistant, Supervised by Professor Douglas Stebila	May - Aug. 2020
Dept. of Combinatorics and Optimization, University of Waterloo Undergraduate Research Assistant, Supervised by Professor David Jao	Sept. – Dec. 2019
David R. Cheriton School of Computer Science, University of Waterloo Cryptography, Security, and Privacy (CrySP) Lab Undergraduate Research Assistant, Supervised by Professor Douglas Stinson	May – Aug. 2019

ISARA Corporation

Jan. - Apr. 2019

Security Developer, Intern

David R. Cheriton School of Computer Science, University of Waterloo Sept. - Dec. 2018 Cryptography, Security, and Privacy (CrySP) Lab

Undergraduate Research Assistant, Supervised by Professor Douglas Stinson

Cisco Systems May – Aug. 2018

Software Developer, Intern

Academic Service

Organizing Committee

IEEE ISTAS 2021 (Fundraising & Sponsorship), StarCon 2019 (Speakers Team)

External Reviewer

ACISP 2021

Teaching Assistantships

SYDE361 Engineering Design University of Waterloo	Spring 2022
SYDE362 Capstone Project University of Waterloo	Winter 2022
SYDE161 Introduction to Design University of Waterloo	Fall 2021
CS458/658 Computer Security and Privacy University of Waterloo	Spring 2021
CS458/658 Computer Security and Privacy University of Waterloo	Winter 2021
CS135 Designing Functional Programs University of Waterloo	Fall 2020
MATH135 Algebra for Honours Mathematics University of Waterloo	Winter 2018
MATH135 Algebra for Honours Mathematics University of Waterloo	Fall 2017
Awards	
Ontario Graduate Scholarship (OGS)	2021 - 2022
David R. Cheriton Graduate Scholarship University of Waterloo	2020 - 2022
President's Graduate Scholarship University of Waterloo	2020 - 2022
Cybersecurity and Privacy Excellence Graduate Scholarship CPI	2020
Ontario Graduate Scholarship (OGS) (declined)	2020
NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-M)	2020
CRA Outstanding Undergraduate Researcher Award (Honorable Mention)	2020
NSERC Undergraduate Student Research Award	2020
President's Research Award University of Waterloo	2020
NSERC Experience Award	2019
President's Research Award University of Waterloo	2019
President's Scholarship of Distinction University of Waterloo	2017

Community Service

CEEA2022: Shift to Social Good Workshop Track

2022

Assisted in presenting Mending Engineering: A Workshop to Start Radically Repairing Engineering's Relationship with the Rest of the World.

Critical Tech Talk: AI Five Ways Assisted in setup and filming of panel talk.	2022
inteGIRLS Toronto Guest Speaker at Spring Math Competition	2021
Cybersecurity and Privacy Institute Speaker Series Panel with Jennifer Whitson, Bonnie Butlin, and Cat Coode on Women in Tech.	2020
CEMC Workshop in Computer Science for Young Women Assisted in running a session on Network Privacy and Security.	2019
UW Faculty of Mathematics Math Faculty Ambassador, Panel on Majors in Mathematics.	2018
UW Capture the Flag (CTF) Club Presented a workshop on Computer Networks.	2017