

Shannon Veitch

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Education

University of Waterloo MMath, Computer Science *2020 – current*
Cryptography, Security, and Privacy Lab. Supervised by Professor Doug Stinson.

University of Waterloo BMath, Combinatorics and Optimization *2016 – 2020*
Undergraduate research assistantships supervised by Professor Doug Stinson (Fall 2018, Spring 2019),
Professor David Jao (Fall 2019), and Professor Douglas Stebila (Spring 2020).

Publications

1. C. J. Colbourn, D. R. Stinson, and S. Veitch. Constructions of optimal orthogonal arrays with repeated rows. *Discrete Mathematics* **342** (2019), 2455-2466.
2. D. Kreher, D. R. Stinson, and S. Veitch. Block-avoiding point sequencings of directed triple systems. *Discrete Mathematics* **343** (2020), 111773.
3. D. Kreher, D. R. Stinson, and S. Veitch. Block-avoiding point sequencings of Mendelsohn triple systems. *Discrete Mathematics* **343** (2020), 111799.
4. 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.

Technical Reports

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

Preprints

7. N. Bindel, D. Stebila, and S. Veitch. Improved attacks against key reuse in learning with errors key exchange. October 2020.

Volunteering

Cybersecurity and Privacy Institute Speaker Series *2020*
Women in Tech, Panelist

CSGirls at UWaterloo *2019*
Workshop Assistant

StarCon *2018 – 2019*
Speakers Team Member

University of Waterloo Faculty of Mathematics *2017 – 2020*
Math Faculty Ambassador

UW Capture the Flag (CTF) Club *2017*
Workshop Presenter

Industry Experience

ISARA Corporation Security Developer, Intern	<i>Jan. – Apr. 2019</i>
Cisco Systems Software Developer, Intern	<i>May – Aug. 2018</i>

Teaching Assistantships

CS135 Designing Functional Programs University of Waterloo	<i>Fall 2020</i>
MATH135 Algebra for Honours Mathematics University of Waterloo	<i>Winter 2018</i>
MATH135 Algebra for Honours Mathematics University of Waterloo	<i>Fall 2017</i>

Awards

Cybersecurity and Privacy Excellence Graduate Scholarship CPI	<i>2020</i>
David R. Cheriton Graduate Scholarship University of Waterloo	<i>2020</i>
President's Graduate Scholarship University of Waterloo	<i>2020</i>
Ontario Graduate Scholarship (OGS) – <i>declined</i>	<i>2020</i>
Alexander Graham Bell Canada Graduate Scholarship (CGS-M) NSERC	<i>2020</i>
CRA Outstanding Undergraduate Researcher Award (Honorable Mention)	<i>2020</i>
Undergraduate Student Research Award NSERC	<i>2020</i>
President's Research Award University of Waterloo	<i>2020</i>
Experience Award NSERC	<i>2019</i>
President's Research Award University of Waterloo	<i>2019</i>
President's Scholarship of Distinction University of Waterloo	<i>2017</i>