

# Shannon Veitch

ssveitch@edu.uwaterloo.ca | 613-809-2564 | shannonveitch.github.io

## Education

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**University of Waterloo** B. Math, Combinatorics and Optimization *2016-2021*

## Employment Experience

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**ISARA Corporation** *January 2019 – present*

Security Developer

- Implementing and testing quantum-safe cryptographic algorithms

**University of Waterloo Cryptography, Security, and Privacy Lab** *September – December 2018*

Undergraduate Research Assistant, Supervised by Professor Douglas Stinson

- Researched methods of construction and properties of orthogonal arrays with repeated rows
- Participated in weekly lab meetings

**Cisco Systems Canada Co.** *May – August 2018*

Software Engineering Intern

- Performed tests on features of the enterprise networking operating system using Python
- Developed features in an internal test framework using Python, Bash, and JavaScript

**University of Waterloo Faculty of Mathematics** *September 2017 – April 2018*

Undergraduate Teaching Assistant

- Provided effective lessons and constructive feedback during tutoring sessions
- Marked assignments and provided instructors with feedback on student performance

## Activities and Volunteering

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**StarCon** *2018 – present*

Speakers Team Member

- Collaborated with team to run a two-day, single-track, software engineering conference
- Researched and documented potential frameworks for the Call for Proposals
- Developed a review process that minimizes bias via anonymization and bidding of submissions

**UW Capture the Flag (CTF) Club** *2017 – 2018*

Workshop Presenter

- Designed and presented a workshop on computer networks, covering the 4 Layer Internet Model, DNS, IP/TCP protocols, and link layer responsibilities

## Papers Submitted for Publication

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Charles J. Colbourn, Douglas R. Stinson, and Shannon Veitch. Constructions of optimal orthogonal arrays with repeated rows.

## Technical Skills

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**Languages:** C, Python, Sage, C++, Maple, JavaScript, R, Bash, PowerShell, Racket

## Awards

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**NSERC Experience Award** *2019*

**President's Research Award** University of Waterloo *2019*