

## Research Interests

Impossibility and complexity results for distributed algorithms, concurrent data structures, randomized algorithms, and performance profilers and visualizations.

## Education

- 2019-2023**    **PhD in Computer Science** | University of Toronto  
*Supervised by Faith Ellen*
- 2017-2019**    **MSc in Computer Science** | University of Calgary  
*Supervised by Philipp Woelfel*
- 2013-2017**    **BSc with Distinction in Computer Science** | University of Calgary  
*GPA 3.8/4.0*

## Experience

- 2023-Now**    **Postdoctoral Researcher** | University of Waterloo
- 2019-2023**    **Teaching Assistant** | University of Toronto  
CSC2415: Impossibility Results for Distributed Computing (Winter 2023)  
CSC265: Enriched Data Structures and Analysis (Fall 2022)  
CSC263: Data Structures and Analysis, *Head TA* (Winter 2021, Winter 2022)  
CSC2221: Introduction to the Theory of Distributed Computing (Fall 2020, Fall 2021)  
CSC236: Introduction to the Theory of Computing (Fall 2019, Winter 2020, Summer 2020)
- 2022**        **Instructor** | University of Toronto  
CSC263: Data Structures and Analysis, (Summer 2022)
- 2017-2019**    **Teaching Assistant** | University of Calgary  
CPSC319: Data Structures, Algorithms, and their Applications (Winter 2019)  
CPSC413: Design and Analysis of Algorithms I (Winter 2018, Summer 2018)  
CPSC313: Introduction to Computability (Fall 2017)

## Journal Publications

- JACM 2023**    **The Space Complexity of Consensus from Swap**  
Sean Ovens

## Conference Publications

- PODC 2024**    **Determining Recoverable Consensus Numbers** | *Best Paper Award* 🏆  
Sean Ovens
- DISC 2023**    **Brief Announcement: The Space Complexity of Set Agreement Using Swap**  
Sean Ovens
- DISC 2022**    **The Space Complexity of Scannable Objects with Bounded Components**  
Sean Ovens

- PODC 2022**   **The Space Complexity of Consensus from Swap** | *Best Paper Award* 🏆  
Sean Ovens
- PODC 2021**   **The Space Complexity of Scannable Binary Objects**  
Sean Ovens
- PODC 2019**   **Strongly Linearizable Implementations of Snapshots and Other Type**  
Sean Ovens and Philipp Woelfel

## In Submission

- DIST.**      **Determining Recoverable Consensus Numbers**  
Sean Ovens

## Activities and Service

- Program Committee Member** | PODC 2025 (12 papers), 2024 (18 papers)  
**Journal Reviewer** | Distributed Computing  
**Conference Reviewer** | STOC 2024, 2022, 2021; PODC 2025, 2024, 2022, 2021
- Nov 2024**    **Invited Speaker** | HACDA 2024  
Talk title: Visualizing the memory layout of multithreaded applications
- 2024**        **Head of Mentorship Program, Competitive Programming Club** | University of Calgary
- Jan 2024**    **Workshop Instructor, AI Research School** | University of Calgary
- 2022-2023**   **Teaching Fundamentals Certificate** | University of Toronto
- Oct 2022**    **Mentor, Graduate Application Assistance Program** | University of Toronto
- Apr 2022**    **Interviewer, Summer Program for Students from Ukraine** | University of Toronto
- Oct 2018**    **Competitor, Student Innovation Contest** | UIST 2018  
Built a prototype of a shoulder-mounted robotic personal assistant
- 2015-2019**   **Member, Problem Solving Club** | University of Calgary

## Awards and Scholarships

- 2023-2025**   **NSERC Postdoctoral Fellowship** | University of Waterloo
- 2022**        **SGS Conference Grant** | University of Toronto
- 2020-2021**   **Ontario Graduate Scholarship** | University of Toronto
- 2018**        **Computer Science TA Excellence Award** | University of Calgary
- 2017, 2018**   **Department Research Award** | University of Calgary
- 2013-2016**   **Dean's List, Faculty of Science** | University of Calgary
- '14, '15, '16**   **Jason Lang Scholarship** | University of Calgary
- 2015**        **Undergraduate Merit Award** | University of Calgary
- 2013, 2014**   **President's Admission Scholarship** | University of Calgary
- Competitive Programming Awards**
- 2018**        5th place, Calgary Collegiate Programming Contest
- 2016**        6th place, Rocky Mountain Regional Programming Contest
- 2016**        2nd place, Calgary Microsoft College Code Competition
- 2016**        10th place, Alberta Collegiate Programming Contest