

Sean Ovens

s2ovens@uwaterloo.ca | [github/seangovens](https://github.com/seangovens) | seanovens.com

EDUCATION

PhD in Computer Science | University of Toronto Sep 2019 - Sep 2023
MSc. in Computer Science | University of Calgary Sep 2017 - Jun 2019
BSc. With Distinction in Computer Science | University of Calgary Sep 2013 - Jun 2017

EXPERIENCE

Postdoctoral Fellow | University of Waterloo Sep 2023 - Present

Teaching Assistant | University of Toronto Sep 2019 - Jun 2023

- CSC2415: Impossibility Results for Distributed Computing (W2023)
- CSC265: Enriched Data Structures and Analysis (F2022)
- CSC263: Data Structures and Analysis, Head TA (W2021, W2022)
- CSC2221: Introduction to the Theory of Distributed Computing (F2020, F2021)
- CSC236: Introduction to the Theory of Computing (F2019, W2020, S2020)

Instructor | University of Toronto May 2022 - Aug 2022

- CSC263: Data Structures and Analysis, (S2022)

Teaching Assistant | University of Calgary Sep 2017 - Jun 2019

- CPSC319: Data Structures, Algorithms, and their Applications (W2019)
- CPSC413: Design and Analysis of Algorithms I (W2018, S2018)
- CPSC313: Introduction to Computability (F2017)

JOURNAL PUBLICATIONS

- Sean Ovens. 2023. **The Space Complexity of Consensus from Swap**. Journal of the ACM.

CONFERENCE PUBLICATIONS

- Sean Ovens. 2023. **Brief Announcement: The Space Complexity of Set Agreement Using Swap**. DISC '23.
- Sean Ovens. 2022. **The Space Complexity of Scannable Objects with Bounded Components**. DISC '22.
- Sean Ovens. 2022. **The Space Complexity of Consensus from Swap**. PODC '22. *Received the Best Paper Award.*
- Sean Ovens. 2021. **The Space Complexity of Scannable Binary Objects**. PODC '21.
- Sean Ovens and Philipp Woelfel. 2019. **Strongly Linearizable Implementations of Snapshots and Other Types**. PODC '19.

AWARDS AND SCHOLARSHIPS

Academic and Teaching

- NSERC Postdoctoral Fellowship, University of Waterloo (2023 - 2025)
- SGS Conference Grant, University of Toronto (W2022)
- Ontario Graduate Scholarship, University of Toronto (F2020 - S2021)
- Computer Science TA Excellence Award, University of Calgary (W2018)
- Department Research Award, University of Calgary (2017, 2018)
- Dean's List, Faculty of Science, University of Calgary (2013 - 2016)
- Jason Lang Scholarship, University of Calgary (2014, 2015, 2016)
- Undergraduate Merit Award, University of Calgary (2015)
- President's Admission Scholarship, University of Calgary (2013, 2014)

Competitive Programming

- 5th place, Calgary Collegiate Programming Contest (2018)
- 6th place, Rocky Mountain Regional Programming Contest (2016)
- 2nd place, Calgary Microsoft College Code Competition (2016)
- 10th place, Alberta Collegiate Programming Contest (2016)

ACTIVITIES AND SERVICE

Paper Reviewer

Reviewed papers for STOC 2024, 2022, and 2021; PODC 2022, 2021.

Workshop Instructor - AI Research School

Jan 2024

Teaching Fundamentals Certificate

Jan 2022 - Jan 2023

Mentor - Graduate Application Assistance Program

Oct 2022

Interviewer - Summer Program for Students from Ukraine

Apr 2022

UIST Student Innovation Contest

Oct 2018

Problem Solving Club (University of Calgary)

Sept 2015 - Jun 2019