

# Joy Cooper

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## EDUCATION

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- **M.Sc Mathematics** Sept 2024 - Present  
*University of Victoria* *Victoria, BC*
- **B.Sc Honours Combined Computer Science and Mathematics** Sept 2018 - Apr 2023  
*University of Victoria* *Victoria, BC*

## AWARDS

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- **Betty and Gilbert Kennedy Graduate Scholarship in Mathematics and Statistics** Dec 2024  
*University of Victoria* *Victoria, BC*
- **Chair in Transgender Studies Master's Scholarship** Sept 2024  
*University of Victoria* *Victoria, BC*
- **Faculty of Science Dean's List** 2020 - 2021  
*University of Victoria* *Victoria, BC*
- **President's Award** Sept 2020  
*University of Victoria* *Victoria, BC*
- **Faculty of Science Dean's List** 2019 - 2020  
*University of Victoria* *Victoria, BC*
- **Recognition of Achievement in First Year Math** Oct 2019  
*University of Victoria* *Victoria, BC*
- **District of Sechelt Mayor's Award** June 2017  
*Chatelech Secondary School* *Sechelt, BC*

## ONGOING AND COMPLETED RESEARCH

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- **Fuzzy Latin Squares and Balanced Permutation Pattern Statistics** Sept 2024 - Present  
*Supervised by Dr. Peter Dukes and Dr. Natasha Morrison*
- **PIMS First Year Interest Group on Quantum Walks** Oct 2025 - Present  
*Led by: Dr. Hermie Monverde*
- **CSC 499 Honours Project: Computational Complexity of Graph Cores** Sept 2021 - Dec 2021  
*Supervised by Dr. Bruce Kapron*

## CONFERENCES AND SEMINARS

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- **Speaker at CMS Summer Meeting** June 2026  
*University of New Brunswick* *Saint John, NB*
- **Discrete Math Seminar: The Dimension of Latin Squares** Mar 2026  
*University of Victoria* *Victoria, BC*
- **Attendee at Cascadia Combinatorial Feast** Nov 2025  
*Simon Fraser University* *Vancouver, BC*
- **Discrete Math Seminar: Extending Matchings in Hypercubes to Hamiltonian Cycles** Apr 2025  
*University of Victoria* *Victoria, BC*
- **Discrete Math Seminar: Exploring Geometric and Combinatorial Configurations** Feb 2025  
*University of Victoria* *Victoria, BC*
- **Discrete Math Seminar: Counting Tilings of a Board** Jan 2025  
*University of Victoria* *Victoria, BC*
- **CSC 499 Honours Seminar: Computational Complexity of Graph Cores** Dec 2021  
*University of Victoria* *Victoria, BC*

## TEACHING

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### • **Tutorial Instructor**

*University of Victoria*

- **Math 200:** Calculus III May 2026 - Aug 2026
- **Math 204:** Calculus IV Jan 2026 - Apr 2026
- **Stat 252:** Statistics for Business Jan 2026 - Apr 2026
- **Math 110:** Matrix Algebra for Engineers Sept 2025 - Dec 2025
- **Math 200:** Calculus III May 2025 - Aug 2025
- **Stat 252:** Statistics for Business Jan 2025 - Apr 2025
- **Math 101:** Calculus II Jan 2025 - Apr 2025
- **Math 110:** Matrix Algebra for Engineers Sept 2024 - Dec 2024
- **Math 109:** Introduction to Calculus Sept 2024 - Dec 2024
- **Math 100:** Calculus I Sept 2024 - Dec 2024

### • **Math and Stats Assistance Centre**

*University of Victoria*

- **Assistance Centre Summer Tutor** May 2026 - Aug 2026
- **Head Tutor** Sept 2025 - Dec 2025
- **Assistance Centre Summer Tutor** May 2025 - Aug 2025
- **Assistance Centre Tutor** Sept 2023 - Apr 2024
- **Assistance Centre Tutor** Sept 2022 - Apr 2023

### • **Exam Review Leader**

*University of Victoria*

- **Math 100/109:** Calculus I. Final Review Dec 2025
- **Math 151:** Finite Mathematics. Midterm Review Oct 2025, Nov 2025
- **Math 102:** Calculus for Students in the Social and Biological Sciences. Midterm Review Sept 2025, Oct 2025
- **Math 102:** Calculus for Students in the Social and Biological Sciences. Final Review Apr 2023
- **Math 151:** Finite Mathematics. Final Review Dec 2022

### • **Assignment Grader**

*University of Victoria*

- **Math 427:** Combinatorial Designs Jan 2026 - Apr 2026
- **Stat 252:** Statistics for Business Jan 2026 - Apr 2026
- **Math 481:** Mathematical Logic Sept 2025 - Dec 2025
- **Math 200:** Calculus III May 2025 - Aug 2025
- **Math 151:** Finite Mathematics Sept 2024 - Dec 2024
- **Math 222:** Discrete and Combinatorial Mathematics Jan 2023 - Apr 2023
- **Math 122:** Logic and Foundations Sept 2022 - Dec 2022
- **CSC 320:** Foundations of Computer Science Sept 2021 - Dec 2021

## VOLUNTEERING AND ORGANIZING

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### • **IMAGINING UVic Volunteer**

*University of Victoria*

Aug 2026  
*Victoria, BC*

### • **Co-Founder of the Queer Math Group Q-Space**

*University of Victoria*

Sept 2025 - Present  
*Victoria, BC*

### • **SIGMAS Exam Sales Coordinator**

*University of Victoria*

Dec 2025  
*Victoria, BC*

### • **SIGMAS Exams Sales Volunteer**

*University of Victoria*

Dec 2024, Apr 2025  
*Victoria, BC*

## PROGRAMMING LANGUAGES

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### • **Highly Familiar:** Python, Sage

### • **Mildly Familiar:** C, CSS, HTML, Java, Javascript, MATLAB, Q#, Qiskit, R, SQL