

## EDUCATION

**Ph.D. in Mathematics (2023-Present)**

University of Victoria, BC, Canada  
Supervisors: Dr. Natasha Morrison

**M.Sc. in Mathematics (2021-2023)**

University of Victoria, BC, Canada  
Supervisors: Dr. Kieka Mynhardt & Dr. Natasha Morrison

**B.Sc. Honours in Mathematics (2016-2021)**

University of Victoria, BC, Canada

## FELLOWSHIPS AND AWARDS

Vanier Canada Graduate Scholarship (NSERC)	2023/09 - 2026/08
UVic President's Research Scholarship	2023/09 - 2024/04
JJEM Graduate Award in Mathematics & Statistics	2022/09 - 2023/08
David McGillivray Scholarship in Science	2022/09 - 2023/08
Canada Graduate Scholarship - Master's Program (CGS-M)	2021/09 - 2022/08
UVic President's Research Scholarship	2021/09 - 2021/04
NSERC Undergraduate Student Research Award (USRA)	2021/05 - 2021/08
CMS-RBC Excellence Scholarship	2021/05
UVic President's Scholarship	2020/08
Stephen A. Jennings Memorial Scholarship	2020/07
UVic Mathematics and Statistics Scholarship	2020/07
NSERC Undergraduate Student Research Award (USRA) - Declined	2020/05 - 2020/08
Boehm Family Award for Excellence in Science (3rd place prize)	2020/03
Jamie Cassels Undergraduate Research Award (JCURA)	2019/09 - 2020/04
Stephen A. Jennings Memorial Scholarship	2019/07
UVic Faculty of Science Undergraduate Research Award (SURA)	2019/05 - 2019/08
UVic Science Dean's List	2016/09 - 2021/04
UVic Excellence Scholarship	2016/09 - 2020/04
District Authority Award Scholarship for Community Service	2016/06
Governor General Academic Bronze Medal	2016/06
Graduation Program Examinations Scholarship (Top 20 students in BC)	2016/06
UVic Excellence in Math Scholarship	2016/06
Joy Paquin Memorial Scholarship	2016/06
District Education Scholarship	2016/06

## PRESENTATIONS

The Rainbow Saturation Number is Linear Auburn University Discrete Math Seminar (Virtual)	2023/09
Polynomials and Percolating Processes on Products of Graphs CanaDAM 2023 (Invited, and Cancelled due to illness)	2023/06
Rainbow Saturation is Linear (Poster) Pacific Rim Mathematical Association Congress	2022/12
Saturate the Rainbow. Taste the Rainbow. UVic Discrete Math Seminar	2022/12
A Mathematician's Guide to World Domination IMAGINING UVic - Inspiring Mathematical Growth and Intuition in Girls	2022/07
A Mathematical Mindset IMAGINING UVic - Inspiring Mathematical Growth and Intuition in Girls	2022/07
Shannon Talks About Shannon's Entropy UVic Discrete Math Mini Summer Seminar	2022/06
A Mathematician's Guide to World Domination South Island Distance Education School Science Club (Virtual)	2022/04
Dependent Random Choice: A Pretty Powerful Probabilistic Proof Technique UVic Discrete Math Seminar (Virtual)	2022/04
How to Lose at Tic-Tac-Toe, and Other (More Transitive) Games UVic Discrete Math Seminar	2022/04
Random Recolorings UVic Probabilistic Methods in Combinatorics Course	2022/02
Paint by Numbers: Investigating List Colourings of Plane Graphs UVic Discrete Math Seminar (Virtual)	2022/01
Infectious Connections: Weak Saturation with Complete Multipartite Graphs UVic Math & Stats Masters Seminar	2021/11
Some Supercritical Results for Defending the Roman Empire UVic SUMS Seminar (Virtual)	2021/03
Infesting the Cube: $r$ -Neighbour Bootstrap Percolation in the Hypercube UVic Undergraduate Graph Theory Course (Virtual)	2020/07
Total Roman Domination Edge-Supercritical and Edge-Removal Supercritical Graphs Women in Combinatorics Virtual Colloquium (Virtual)	2020/06
Total Roman Domination Edge-Supercritical and Edge-Removal Supercritical Graphs (Poster) JCURA Research Fair, University of Victoria, BC, Canada	2020/03
Total Roman Domination Edge-Supercritical and Edge-Removal Supercritical Graphs (Poster) Honours Fest, University of Victoria, BC, Canada	2020/03
Criticality Concepts for Total Roman Domination in Graphs RouxFest Workshop, University of Victoria, BC, Canada	2019/11

## PUBLICATIONS

S. Ogden, Saturation Problems on Graphs, *UVicSpace Electronic Theses and Dissertations* (2023).

N. Behague, T. Johnston, S. Letzter, N. Morrison, S. Ogden, The Rainbow Saturation Number is Linear, *ArXiv* (2022).

C.M. Mynhardt, S.E.A. Ogden, Total Roman domination edge-supercritical and edge-removal supercritical graphs, *Australas. J. Combin.* 78-3 (2020), 413-433.

S. Ogden, Total Roman domination edge-supercritical and edge-removal supercritical graphs, *JCURA Poster Collection* (2020).

C. Lampman, C.M. Mynhardt, S.E.A. Ogden, Total Roman domination edge-critical graphs, *Involve* 12-8 (2019), 1423-1439.

## TEACHING EXPERIENCE

IMAGINING UVic (Inspiring Mathematical Growth and Intuition in Girls) Program Coordinator Association for Women in Mathematics UVic Student Chapter	2022/07 - Present
Teaching Assistant (Math 101 Tutorial Instructor) Department of Mathematics and Statistics, University of Victoria	2023/01 - 2023/04
Volunteer High School Math Club Organizer Stelly's Secondary School, Saanichton, BC, Canada	2022/09 - 2022/11
Volunteer Math Classroom Assistant Stelly's Secondary School, Saanichton, BC, Canada	2022/09 - 2022/11 2017/04 - 2017/06
UVic MATH 362 Substitute Lecturer (one lecture)	2022/09
Volunteer Middle School Math Club Organizer South Island Distance Education School, Victoria, BC, Canada	2021/10 - 2022/6
Teaching Assistant (Online Math and Stats Assistance Centre) Department of Mathematics and Statistics, University of Victoria	2021/09 - 2021/12
UVic MATH 122 Substitute Lecturer (one week)	2021/11
Secondary School Math & Physics Tutor	2018/04 - 2018/06
Climbing Academy Coach SD63, Saanichton, BC, Canada	2018/04 - 2018/06 2017/04 - 2017/06
Intro Belay Instructor & Summer/Pro-D Day Camp Leader The Boulders Climbing Gym, Saanichton, BC, Canada	2014/06 - 2016/09
Volunteer Math Club Leader Stelly's Secondary School, Saanichton, BC, Canada	2015/09 - 2016/06

**OTHER VOLUNTEER ACTIVITIES**

Outreach Program Coordinator Association for Women in Mathematics UVic Student Chapter	2021/10 - Present
Graduate Student Member-at-Large Association for Women in Mathematics UVic Student Chapter	2021/06 - 2021/12
Mentor for Master's Students UVic Math and Stats Master's Seminar Course	2021/09 - 2021/11

**CERTIFICATIONS**

Climbing Gym Instructor Level 2 Thompson Rivers University, BC, Canada	2016/03
Climbing Gym Instructor Level 1 Thompson Rivers University, BC, Canada	2015/03