

# Denali Relles

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## Education

Master of Science: Mathematics and Statistics (thesis)	August 2022
McGill University	
Bachelor of Science: Joint Honours Computer Science and Math	May 2021
McGill University	Cumulative GPA: 3.97

## Research Experience

Science Undergraduate Research Award (SURA)	2020
- Paper title: Distant Collision Response in Rigid Body Simulation	
- Project supervisor: Professor Paul Kry	
Research project in computer science	2020
- Project title: Tree Difference Algorithms to Cluster and Analyze Student Code in LearnOCaml	
- Project supervisor: Professor Brigitte Pientka	

## Work Experience

Teaching Assistant	2021
- giving tutorials to reinforce subject matter	
- holding office hours	
- grading	
Student Helpdesk Mentor	2020 - 2021
- Providing help to students who were having trouble with their homeworks	

## Awards

Graduate Excellence Award (\$2200)	2021
Tomlinson Engagement Award for Mentoring (\$900)	2020 - 2021
NSERC Undergraduate Research Supplement (\$3000)	2020
Paul Marcus Pugh Science Undergraduate Research Award (\$4000)	2020
Dean's Honour List	2019
James McGill Scholarship (\$3000)	2018
National Merit Scholarship Award	2018
Regional Science Bowl champion and National Science Bowl competitor	2013 and 2017

## Conferences Attended

Young Geometric Group Theory Conference	2021
Geometric Group Theory Without Boundaries II	2021

## Graduate Coursework and Seminars Attended

McGill Geometric Group Theory Seminar	2021
Orderable Groups and Low Dimensional Topology, Steven Boyer	2021
Compact Lie Groups and their Representations, Michael Lipnowski	2021
Higher Algebra 1, Mikaël Pichot	2021
- noncommutative rings and modules	
Geometry of Calabi Yau Manifolds, Valentino Tosatti	2021
Geometry and Topology 2, Brent Pym	2021
- manifolds and Riemannian geometry	
Advanced Real Analysis, John Toth	2020
- measure theory and integration theory	
Geometry and Topology 1, Daniel Wise	2020
- topology and principles of geometric group theory	

## Volunteer Experience

The Open Door Montreal	2021
- Collecting, washing, and redistributing clothes for low income people	
Homework Zone	Student mentor, 2018-2019
- Tutoring primary and secondary school students	
- Supervising homework and other activities	
McConnell Hall Residence Council	Vice-president Environment, 2018-2019
- Reviewing residence events for environmental impact	
- Recommending sustainability measures	
- Pursuing sustainability initiatives at McGill	