

---

# Brittany Pittman

Corner Brook, NL | [brittany.pittman@torontomu.ca](mailto:brittany.pittman@torontomu.ca)

## Degrees

- 2020/9 - 2024/6      Doctor of Philosophy (PhD) - Mathematical Modelling and Methods  
Toronto Metropolitan University  
Supervisors: Dr. Anthony Bonato and Dr. Michelle Delcourt  
*Convocation date: October 2024*
- 2018/9 - 2020/7      Master of Science (Mathematics)  
Memorial University of Newfoundland  
Supervisors: Dr. Danny Dyer and Dr. Jared Howell
- 2014/9 - 2018/5      Bachelor of Science (Computational Mathematics)  
Grenfell Campus, Memorial University of Newfoundland
- 2024/5                Certificate in Indigenous Studies  
Memorial University of Newfoundland

## Employment

- 2024/1 - 2024/4      Math 1001: Calculus II and Math 4340: Combinatorial Analysis Instructor  
School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland
- 2023/9 - 2023/12    Math 1001: Calculus II Instructor  
School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland
- 2020/09 - 2023/05    Teaching Assistant  
Department of Mathematics, Toronto Metropolitan University  
    Fall 2020: MTH 141 (Linear Algebra), MTH 110 (Discrete Mathematics I)  
    Fall 2021: MTH 110 (Discrete Mathematics I)  
    Winter 2022: MTH 314 (Discrete Mathematics for Engineers), MTH 607 (Graph Theory)  
    Fall 2022: MTH 110 (Discrete Mathematics I)  
    Winter 2023: MTH 607 (Graph Theory), MTH 314 (Discrete Mathematics for Engineers)

- 2017/9 - 2017/12 Mathematics Grading Assistant  
School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland
- 2017/9 - 2017/12 Statistics Student Tutor  
School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland

## Community and Volunteer Activities

- 2023/11 – Present Planning Coordinator  
Elmastukwek Mawio'mi Planning Committee
- 2023/09 Volunteer Coordinator  
Grenfell Campus All-Nations Powwow
- 2017/1 – 2023/10 Director, Youth Representative  
Mi'Kmaq Cultural Foundation (formerly Qalipu Cultural Foundation) Board of Directors
- 2021/03 Long Range Mountains Delegate  
Daughters of the Vote
- 2017/9 - 2018/4 Grenfell Campus Environmental Affairs Committee  
Memorial University of Newfoundland

## Committee Memberships

- 2017/9 - 2018/4 Grenfell Campus Indigenous Initiatives Advisory Committee  
Memorial University of Newfoundland

## Papers published in refereed journals

1. *The watchman's walk problem on directed graphs* (with D. Dyer and J. Howell), *Australasian Journal of Combinatorics* **80** (2021), 197–216.
2. *The localization capture time of a graph* (with N. Behague, A. Bonato, M. Huggan and T. Marbach), *Theoretical Computer Science* **911** (2022), 80-91.
3. *The Localization Game on Directed Graphs* (with A. Bonato, R. Cushman, and T. Marbach). To appear in *Discrete Applied Mathematics*.

## Organization of Research Events

1. Co-organizer of conference minisymposium *Pursuit-Evasion Games on Graphs* at CanaDAM (Canadian Discrete and Algorithmic Mathematics conference), Winnipeg, 5-8 June 2023.
2. Co-organizer of conference session *Graph Searching* at Canadian Mathematical Society Summer Meeting, St. John's, 3-6 June 2022.

## Academic Presentations

1. (2022) The localization capture time of a graph. CMS Winter Meeting, Toronto, ON.
2. (2022) The localization capture time of a graph. CMS Summer Meeting, St. John's, NL.
3. (2021) The localization capture time of a graph. GRASCan.
4. (2019) The watchman's walk problem on directed graphs. East Coast Combinatorics Conference, Halifax, NS
5. (2019) Watching directed graphs. Discrete Math Morning. Memorial University of Newfoundland, St. John's, NL
6. (2019). The watchman's walk problem on directed graphs SumRSS (Summer Research Student Seminar at Grenfell Campus), Corner Brook, NL
7. (2019). The watchman's walk criticality and related topics. Aldrich Conference, Memorial University, St. John's, NL
8. (2018). The watchman's walk problem on graphs. SumRSS (Summer Research Student Seminar at Grenfell Campus), Corner Brook, NL
9. (2018). The watchman's walk criticality and related topics. East Coast Combinatorics Conference, Halifax, NS
10. (2018). Generalized covering designs. SumRSS (Summer Research Student Seminar at Grenfell Campus), Corner Brook, NL
11. (2017). The watchman's walk problem on graphs. Science Atlantic Mathematics, Statistics, and Computer Science Conference, Fredericton, NB

## Recognitions

2024/04	Fiera Capital Award Toronto Metropolitan University
2024/02	Postdoctoral Fellowship Natural Sciences and Engineering Research Council of Canada (NSERC)
2020/9 - 2023/9	Postgraduate Scholarship - Doctoral (PGS D) Natural Sciences and Engineering Research Council of Canada (NSERC)
2019/9 - 2020/8	Alexander Graham Bell (CGS M) Natural Sciences and Engineering Research Council of Canada (NSERC)
2018/9	F.A. Aldrich Graduate Fellowship Memorial University of Newfoundland

- 2018/5 University Medal for Academic Excellence in Computational Mathematics  
Memorial University of Newfoundland
- 2018/5 - 2018/8 Undergraduate Student Research Award  
Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2018/3 Calvin White Indigenous Leadership Award  
Memorial University of Newfoundland
- 2018/3 W. Gary Rowe, QC Scholarship at Grenfell Campus  
Memorial University of Newfoundland
- 2018/3 John A. Snow Prize in Mathematics  
Memorial University of Newfoundland
- 2017/9 - 2018/4 Grenfell Campus Vice-President's List  
Memorial University of Newfoundland
- 2017/5 - 2017/8 Undergraduate Student Research Award  
Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2017/3 W. Gary Rowe, QC Scholarship at Grenfell Campus  
Memorial University of Newfoundland
- 2017/3 Chair of Computational Mathematics Award  
Memorial University of Newfoundland
- 2016/9 - 2017/4 Grenfell Campus Vice-Presidents List  
Memorial University of Newfoundland