

Brittany Elizabeth Pittman

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Degrees

2020/9 - (2024/9)	Doctor of Philosophy (PhD) - Mathematical Modelling and Methods Toronto Metropolitan University Supervisors: Dr. Anthony Bonato and Dr. Michelle Delcourt
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's of Science (Computational Mathematics) Grenfell Campus, Memorial University of Newfoundland

Recognitions

2021/12	Supporting Aboriginal Graduate Enhancement Award Toronto Metropolitan University
2021/11	Indigenous Student Award Indspire
2020/9 - 2023/9	Postgraduate Scholarship - Doctoral (PGS D) Natural Sciences and Engineering Research Council of Canada (NSERC)
2020/11	Indigenous Student Award Indspire
2019/9 - 2020/8	Alexander Graham Bell (CGS M) Natural Sciences and Engineering Research Council of Canada (NSERC)
2019/12	Terra-Nova Aboriginal Student Scholarship Memorial University of Newfoundland
2019/9	Indigenous Student Award Indspire
2018/9	F.A. Aldrich Graduate Fellowship Memorial University of Newfoundland
2018/9	Indigenous Student Award Indspire
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
2017/9	Indspire Student Award Indspire
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
2016/9	Indspire Student Award (Ron Jamieson BMO Aboriginal Award) Indspire
2016/4	Bernie Hanlon Memorial Scholarship Qalipu Mi'kmaq First Nation Band
2014/12	Foundation for the Advancement of Aboriginal Youth Scholarship Canadian Council for Aboriginal Business (CCAB) Foundation

Employment

2020/09 - 2022/12	Teaching Assistant Department of Mathematics, Toronto Metropolitan University
2017/12 - 2018/4	Kekina'mut Peer Liaison (Aboriginal Peer Liaison) Aboriginal Affairs, Grenfell Campus, Memorial University of Newfoundland
2017/9 - 2018/4	Mathematics Grading Assistant School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland
2018/1 - 2018/3	Indigenous Content Gatherer National Centre for Collaboration in Indigenous Education
2017/9 - 2017/12	Statistics Student Tutor School of Science and the Environment, Grenfell Campus, Memorial University of Newfoundland
2016/6 - 2016/8	Special Events Planning Assistant Qalipu Mi'kmaq First Nation Band

Community and Volunteer Activities

2017/1 - present	Treasurer, Director, Youth Representative, Hiring Subcommittee member Qalipu Cultural Foundation Board of Directors
2021/03	Long Range Mountains Indigenous Delegate Daughters of the Vote
2017/9 - 2018/4	Grenfell Campus Environmental Affairs Committee Memorial University of Newfoundland
2016/9 - 2018/4	Speaker of Indigenous Student Caucus Memorial University of Newfoundland
2014/9 - 2016/8	Indigenous Student Caucus Member Memorial University of Newfoundland

Committee Memberships

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

Papers submitted to refereed journals

1. *A note on watchman's walks in de Bruijn graphs* (with D. Dyer and J. Howell).
2. *The Localization Game on Directed Graphs* (with A. Bonato, R. Cushman, and T. Marbach).

Organization of Research Events

1. Co-organizer of conference session *Graph Searching* at Canadian Mathematical Society Summer Meeting, St. John's, 3-6 June 2022 (with D. Dyer and S. Finbow).

Academic Presentations

1. (2022) The localization capture time of a graph. CMS Summer Meeting, St. John's, NL.
2. (2021) The localization capture time of a graph. GRASCan.

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