

Leah Fulton (she/they)

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EDUCATION

PhD Candidate, Geography | University of Victoria

September 2023 - Current

Expected completion: 2028

- Dissertation: *A Mixed Method Approach to Weaving Knowledges in Transboundary Coastlines*
- Supervisors: Dr. Christopher Bone, Dr. Crystal Tremblay, Dr. Peter Keller
- Lab: Simulating Resilient Landscapes (SURREAL) Lab

Master of Marine Management (MMM) | Dalhousie University

2020-2022

- Graduate Project: *Untangling the problem of abandoned, lost, and discarded fishing gear: Evaluating the benefits of side scan sonar as a gear detection method.*
- Supervisor: Dr. Craig Brown, Seascape Ecology Mapping (SEAM) Lab

Bachelor of Community Design (BCD), Honours in Urban Design and Planning, Minor in Geography | Dalhousie University

2016- 2020

- Honours Thesis: *Measuring a Housing and Transportation Affordability Index for the Halifax Regional Municipality.* Supervisor: Dr. Ren Thomas
- GPA: 3.89, Sexton Distinction, Sexton Scholar
- Cross-Institutional Exchange, University of Western Australia. Perth, Australia, 2019

Certificate in Geographic Information Systems (GIS) | Dalhousie University

2016-2020

Professional Development

Learning Innovation for Teaching (LIFT) Program | University of Victoria

2026-Current

ComSciCon Canada Graduate Workshop | Waterloo, Ontario.

2026

Participatory Mapping Working Group, Pre-Conference Workshop, ICA | Vancouver, B.C.

2025

RESEARCH

Funding	Role	Amount	Term
SSHRC Doctoral Fellowship	PI	124,000	2024-2028
MITACS Accelerate Award	PI	30,000	2025-2026
President's Research Scholarship	Recipient	20,000	2024-2028

Peer-Reviewed Publications

In Review (2)

1. **L. Fulton**, B. Thom (2026). Unsettling the Map: Cartographies of Treaty Relations as Public Pedagogy in the Salish Sea. In review.
2. P. S. Champagne, K. McGuigan, L. Douglas, D. J. Lieske, K. Allard, **L. Fulton**, S. Avery-Gomm (2026) Mapping Tidal Islands and Assessing Connectivity Dynamics for Conservation Planning in Atlantic Canada: A Google Earth Engine Approach. In review.

Published (5)

3. D. J. Lieske, S. Avery-Gomm, P. Champagne, **L. Fulton** (2025). GIS, Remote Sensing, and Machine Learning: Data Integration to Support the Management of Coastal Island Ecosystems. *Environmental Management* 75(10), 2625-2646.
4. **L. Fulton**, J. McIntyre, K. Duncan, A. Smith, T. R. Walker, C. J. Brown (2023). Evaluating the use of side scan sonar for improved detection and targeted retrieval of abandoned, lost, or otherwise discarded fishing gear. *Continental Shelf Research*, 265, 105077.
5. J. McIntyre, K. Duncan, **L. Fulton**, A. Smith, A. J. Goodman, C. J. Brown, T. R. Walker (2023). Environmental and economic impacts of retrieved abandoned, lost, and discarded fishing gear in Southwest Nova Scotia, Canada. *Marine Pollution Bulletin*, 192, 115013.
6. A. Smith, M. Liboiron, L. Charron, J. McIntyre, K. Hawkins, K. McLean, S. Peddle, G. Moore, M. J. Walzak, A. Goodman, **L. Fulton**, S. Fredericks, B. Nodding (2022). Quantification and characterization of plastics in near-shore surface waters of Atlantic Canada. *Marine Pollution Bulletin*, 181, 113869.
7. A. J. Goodman, J. McIntyre, A. Smith, **L. Fulton**, T. R. Walker, C. J. Brown (2021). Retrieval of Abandoned, Lost, and Discarded Fishing Gear in Southwest Nova Scotia, Canada: Environmental and Economic Impacts to the Commercial Lobster Industry. *Marine Pollution Bulletin* (171).

Technical Reports (2)

1. **L. Fulton** (2021). Untangling the problem of abandoned, lost, and discarded fishing gear: Evaluating the benefits of side scan sonar as a gear detection method [Graduate Project]. Halifax, NS: Dalhousie University.
2. **L. Fulton**, P. Bush (2020). Current State of Landscape Connectivity and Structural Fragmentation in Prince Edward Island. Technical Report.

Published Cartography (3)

1. Treaty Relations in the Salish Sea (2025). Mural. University of Victoria, Mearns Centre for Learning - McPherson Library.
2. The Tale of Lost Fishing Gear (2021). ArcGIS Story Map. [Link](#).
3. Old Growth Forests of Nova Scotia (2020). ArcGIS Story Map. [Link](#).

Community-Engaged and Indigenous Partnered Research

Project	Partner	Date
Mapping Land and Water Wellness, Indigenous Public Health Physicians (Idea Phase)	B.C Deputy Minister of Indigenous Health, B.C Deputy Minister of Planetary Health, First Nations Health Authority	Current
Treaty Relations of the Salish Sea	Dr. Brian Thom, Ry Moran, UVic Libraries	2024-2025
At the Speed of Trust: Storying Shared Research Agreements	Tracy Murphy, WSÁNEĆ Leadership Secondary School	2024
Mi'kmaq Marine Knowledge Atlas	Confederacy of Mi'kmaw Nations (CMN), Ocean Frontier Institute, Dalhousie University	2022-2024

Research Experience

Research Fellowship University of Victoria, Department of Anthropology	July 2024-2026
Research Associate University of Victoria, Department of Geography	Sept. 2023-2026
Spatial Analyst Mount Allison University, Acadia University, Environment and Climate Change Canada	Oct. 2022 – May 2023
Research Associate Ocean Frontier Institute, Dalhousie University	Feb. 2022 – Dec. 2022
Ghost Gear Mapping Research Assistant Coastal Action	Dec. 2020 – March 2022

Conference Presentations (12)

1. **2026. L. Fulton*** and A. Rogers. Campus Planning in the Classroom: Geospatial Digital Twins for Sustainable Transportation. Canadian Association of Geographers Annual Conference. Victoria, British Columbia. June 1-4th. Poster Presentation.
2. **2025. K. White***, A. Syliboy*, L. Amiro, **L. Fulton**, J. Khan, P. Manuel, C. Aporta. Following the Flow of Water: An Atlas for Mi'kmaq Marine Knowledge. Coastal Zone Canada. Charlottetown, Prince Edward Island. June 9-11th. Oral presentation.
3. **2025. L. Fulton*** and B. Thom. "Tracing the Flow of Treaty Relations in the Salish Sea" International Cartographic Congress. Vancouver, British Columbia. August 17-22nd. Oral Presentation.
4. **2025. L. Fulton*** and B. Thom. "Treaties of the Salish Sea". Canadian Association of Geographers and Canadian Cartographic Association Joint Conference. Carleton University, Ottawa. May 20-23rd. Poster Presentation.
5. **2024. T. Murphy***, K. Wilson*, N. Child*, M. Willard-Stephen*, **L. Fulton**. At the speed of trust: Storying shared research agreements. 10th Living Knowledges Conference. Spain. June 26-28th. Workshop.
6. **2023. L. Fulton***. Harnessing Digital Storytelling with Maps to Empower Coastal Communities for Marine Stewardship and Conservation. Coastal Zone Canada Conference. Victoria, British Columbia, Canada. June 11-15th. Oral presentation.
7. **2023. L. Fulton***, D. Lieske, S. Avery-Gomm. Development of a Geospatial Database for Coastal Islands in Eastern Canada. Coastal Zone Canada Conference. Victoria, British Columbia, Canada. June 11-15th. Oral presentation.
8. **2023. S. Spike, L. Fulton***, G. Marty, P. Manuel, C. Aporta, F. Simmons. Living with the Seafloor: Exploring Local Knowledge of Coastal and Nearshore Benthic Spaces along the Eastern Shore of Nova Scotia. Coastal Zone Canada Conference. Victoria, British Columbia, Canada. June 11-15th. Oral presentation.
9. **2023. L. Fulton***, D. Lieske, S. Avery-Gomm. Identifying current and future priority coastal habitats for protection in Atlantic Canada. Canadian Association of Geographers. Montreal, Quebec, Canada. May 8-12th. Oral presentation.
10. **2022. L. Fulton***, C.J. Brown, J. McIntyre, A. Smith, T. Walker. Evaluating the benefits of side scan sonar as a detection method for abandoned, lost, or otherwise discarded fishing gear. GEOHAB Conference 2022. Venice, Italy. May 16 – 20th. Oral Presentation.
11. **2022. J. McIntyre, K. Duncan, L. Fulton**, A. Smith, A. Goodman, C. J. Brown, T. R. Walker*. Collaborative Remediation of Abandoned, Lost, and Discarded Fishing Gear in Southwest Nova Scotia, Canada. The 7th International Marine Debris Conference (7IMDC). September 18-23rd. Busan, Republic of Korea. Poster Presentation.
12. **2021. L. Fulton***. Untangling the Problem of Abandoned, Lost, and Discarded Fishing Gear: Effectiveness of Side-Scan Sonar as a Gear Detection Method in Clark's Harbour, Nova

Scotia. Marine Affairs Program Sustainable Ocean Conference. September 23 – 25th. Virtual Presentation.

*In attendance

Invited Talks / Guest Lecture (7)

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| 1. University of Calgary, Department of Geography, invited by Dr. Caitlin Cunningham. Virtual. | Sept. 2026 |
| 2. University of Victoria, Faculty of Law, invited by Dr. Bradley Brian. Virtual. | Sept. 2026 |
| 3. Around the River 2025/Autour du Fleuve 2025. First Nations of Quebec and Labrador Sustainable Development Institute. November 25-27, 2025. Virtual. | Nov. 2025 |
| 4. Out and About. Victoria Queer Run Club, Patagonia Victoria, Victoria, B.C. In-person. | Oct. 2025 |
| 5. University of Victoria, Faculty of Law, invited by Dr. Bradley Brian. In-person | Sept. 2025 |
| 6. Saving Ghost Fishing Gear. Esri Canada GIS Day in Canada. <u>Virtual Presentation</u> . | Nov. 2022 |
| 7. Collaborative Remediation of Abandoned, Lost and Discarded Fishing Gear in Southwest Nova Scotia. The Canadian Marine Shipping Risk Forum (CMSRF). <u>Virtual Presentation</u> . | June 2022 |
| 8. Connecting on a Deeper Level: Using StoryMaps to Combine Seafloor Mapping and Local Knowledge. Esri Canada Marine and Inland Waters Forum. <u>Virtual Presentation</u> | June 2022 |

INSTRUCTOR PORTFOLIO

Course	Term	Enrolment	Role
ANTH460: Ethnographic Mapping and Indigenous Cartographies Department of Anthropology, University of Victoria	Fall 2026		Declined Offer
GEOG428: Advanced Topics in GIS Department of Geography, University of Victoria	Winter 2026	30	Sessional, Redesigned
GEOG315: Geocaching Department of Geography, University of Victoria	Summer 2025	46	Sessional, inherited course

Teaching Assistantships and Lab Instructor

Department of Geography, University of Victoria			
Lab Instructor/Teaching Assistant (GEOG428: Advanced Topics in GIS)			Winter 2025
Lab Instructor/Teaching Assistant (GEOG428: Advanced Topics in GIS)			Winter 2024
Teaching Assistant (GEOG328: GIS Analysis)			Fall 2023
Teaching Assistant (GEOG104: Our Digital Earth)			Fall 2023
Department of Earth and Environmental Science, Dalhousie University			
Marking Assistant (GEOG/ERTH 4420/5520)			Winter 2022

Teaching Assistant (GEOG/ERTH 4420/5520)	Winter 2021
Teaching Assistant (GEOG/ERTH 3500)	Fall 2021
Teaching Assistant (GEOG/ERTH 3500)	Summer 2021
Marking Assistant (GEOG/3500)	Fall 2020
Department of Biology, Dalhousie University	
Teaching Assistant (GEOG/BIO 3633)	Summer 2020

Learning Support

Program Coordinator - The Map Shop, University of Victoria	September 2023 – 2026
GIS Assistant - School of Planning, Dalhousie University	2019-2020
GIS Assistant - Killam Library, Dalhousie University	2018-2022

Student Supervision and Mentorship (4)

1. Internship supervision: Rachel Erns, Student Planning Intern, Department of Geography, Office of Campus Planning and Sustainability, at the University of Victoria, and District of Saanich. 2025-2026
2. Project Advisory Committee: Jumanah Khan, Master of Marine Management, Dalhousie University. 2022-2023
3. Project Advisory Committee: Gwen Marty, Master of Marine Management, Dalhousie University. 2021-2022
4. Project Advisory Committee: Madison Silver, Bachelor of Environmental Science, Major in Geography, Saint Mary's University. 2020-2021

Scholarship of Teaching and Learning

1. **2026. L. Fulton*** and A. Rogers. Campus Planning in the Classroom: Geospatial Digital Twins for Sustainable Transportation. Canadian Association of Geographers Annual Conference. Victoria, British Columbia. June 1-4th. Poster Presentation.

SERVICE, PRACTICE, RECOGNITION

Community Service

Academic	Peer Reviewer for Marine Pollution Bulletin, PLOS ONE
Local	Founder, Victoria Queer Run Club (VQRC) (2024-current)

Professional Practice

Planner/Cartographer (self-employed)	May 2020 - Current
Assistant Parks Planner Government of Ontario, Ministry of Environment Conservation and Parks, Land and Water Division, Ontario Parks, Northwest Zone	Jan. 2022 – Aug. 2022
Park Planner Government of Nova Scotia, Department of Lands and Forestry, Parks and Outreach Division	May 2021 – Aug. 2021
Planning Intern Government of Nova Scotia, Department of Lands and Forestry, Forestry Division	Jan. 2020 – April 2020

Professional Affiliations

Student Member – North American Cartographic Information Society	Current
Student Member – Planning Institute of British Columbia	Current
Student Member – Canadian Institute of Planners	2017 – 2020, Current
Member - Canadian Association of Geographers	Current
Member - American Association of Geographers	Current
Member - Canadian Cartographic Association	Current
Esri Canada Centre of Excellence Student Associate – Dalhousie University	2017-2022
Student Member – Licensed Professional Planners Association of Nova Scotia	2017 -2020

Media (5)

Service - Community	Queer Run Clubs in Canada, Article in Canadian Running Magazine. In production.
Academic	Salish Sea re-centred: new map highlights Indigenous treaties and rights (2025). University of Victoria. Article. Link .
Service - Community	Victoria Queer Run Club aims to race past exclusion (2025). CBC British Columbia. Video Segment. Link .
Service - Community	The Birth of Victoria Queer Run Club, and how it could inspire you (2025). This is Vancouver Island, CBC News. Podcast. Link .
Academic	Navigating the Waves of Impact: Featured Storyteller: Leah Fulton (2023). StoryScape – ArcGIS StoryMaps. Esri. Article. Link .
Academic	Saving Marine Life: Mapping and Tackling the World’s Ghost Gear Crisis (2023). Esri and the Science of Where. Esri Canada. Podcast. Link .

Awards

President’s Research Scholarship University of Victoria – \$20,000	2024-2028
Canada Centre of Excellence Student Award Esri Canada - \$500	2022
Ron McDowell Student Support Award GEOHAB Conference, Venice, Italy. \$3,000	2022
Winner - Esri Canada Centre of Excellence App Challenge Dalhousie University - \$500	2022
Marine Affairs Millennium Prize Interdisciplinary of the Year Dalhousie University - \$500	2022
Winner – 2021 ArcGIS StoryMap Challenge for Restoring our Oceans Esri, National Geographic Society	2021
The Douglas M. Johnston MASC Scholarship in Marine Affairs Dalhousie University - \$5,000	2020
Winner – Nova Scotia Open Data Challenge Dalhousie University, Government of Nova Scotia - \$3,000	2020
Emily Bevan Harrington Award for International Study – \$2,000	2019
Dalhousie University In-Course Scholarship	2019
Dalhousie University Entrance Scholarship	2017