

# Samuel Aucoin

PhD Candidate

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## *Education*

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<b>Dalhousie University</b> <i>PhD Physical Oceanography</i> <i>Turbulence from Oceanic Plumes</i> <i>With Ruth Musgrave &amp; Alex Hay</i>	09/2022 – Present <i>Halifax, Canada</i>
<b>McGill University</b> <i>BSc First Class Hon. Earth System Science, Min. Physics</i> <i>Coastal Sea-Ice Break-Up Events in Beringia</i> <i>With Bruno Tremblay</i>	09/2019 – 04/2022 <i>Montreal, Canada</i>
<b>CEGEP Heritage College</b> <i>DEC of Science with Distinction</i>	09/2017 – 04/2019 <i>Gatineau, Canada</i>

## *Scholarships & Awards*

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<b>Polar Knowledge Canada NSTP Award</b> <i>Dalhousie University</i>	2025
<b>NSERC Postgraduate Scholarship - Doctoral</b> <i>Dalhousie University</i>	2024 – 2027
<b>President's Award</b> <i>Dalhousie University</i>	2024 – 2026
<b>Nova Scotia Graduate Scholarship</b> <i>Dalhousie University</i>	2024 – 2028
<b>JSPS/Mitacs Research Fellowship</b> <i>Research Institute for Humanity and Nature, Dalhousie University</i>	2023
<b>Best MSc Talk</b> <i>Conference of Dalhousie Oceanography Graduate Students</i>	2023
<b>Osisko Scholarship</b> <i>McGill University</i>	2020 – 2022
<b>NSERC USRA</b> <i>McGill University</i>	2021

## *Research Experience*

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<b>JSPS Visiting Fellow</b> <i>Research Institute for Humanity and Nature</i> <i>With Makoto Taniguchi</i>	06/2023 – 09/2023 <i>Kyoto, Japan</i>
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- Designed and performed a short-term project as a research fellow on the fluid dynamics of submarine springs.

## *Publications*

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- Aucoin, S., Tremblay, B., & Newton, R. (2022b). Coastal Sea-Ice Break-Up Events in Beringia. *McGill Science Undergraduate Research Journal*, 17(1), 18–22.  
<https://doi.org/10.26443/msurj.v17i1.172>
- Aucoin, S., Briand, A., Duval, B., & Qudsi, Z. (2022). Micro-Urban Heat Islands in the City of Montreal. *McGill Science Undergraduate Research Journal*, 17(1), 58–63.  
<https://doi.org/10.26443/msurj.v17i1.178>

## *Presentations*

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- Aucoin, S., Musgrave, R., & Hay, A. (2024). Turbulent dynamics of a submarine spring plume. *Ocean Mixing Gordon Research Conference 2024, Mt Holyoke, Massachusetts, USA*
- Aucoin, S., Makoto, T., Musgrave, R., & Hay, A. (2023). Oceanic mixing from submarine groundwater discharge. *Japan Society for the Promotion of Science Summer Program 2023, Shonan Village, Hayama, Japan*
- Aucoin, S., Musgrave, R., & Hay, A. (2023b). Turbulent plumes from submarine groundwater discharge. *Canadian Meteorological and Oceanography Society Congress 2023, St. John's, Newfoundland & Labrador*
- Aucoin, S., Musgrave, R., & Hay, A. (2023a). Turbulent plumes from submarine groundwater discharge. *Conference of Dalhousie Oceanography Graduate Students 2023, Halifax, Nova Scotia*
- Aucoin, S., Tremblay, B., & Newton, R. (2022a). Coastal sea-ice break-up events in beringia. *McGill University Undergraduate Poster Showcase 2022, Montreal, Quebec*

## *Teaching Experience*

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<b>TA for OCEA1001/2</b>	09/2022 – 05/2023
<i>Dalhousie University</i>	<i>Halifax, Canada</i>
<ul style="list-style-type: none"><li>• Developed and ran weekly tutorial sessions, graded and gave feedback on students' writing ability</li></ul>	

## *Additional Activities & Skills*

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- Communication:** Editor for the student-run departmental science communication magazine, "Current Tides".
- Languages:** English, French
- Programming Languages:** Julia, MatLab, Python, R
- Recreation:** Music, Hiking, Baking, Kayaking