

ALEXIS ANNE BAHL

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BIOGRAPHY

Alexis A. Bahl, Ph.D., is an Instructor and Researcher, Project Coordinator in the Department of Earth, Ocean, and Atmospheric Sciences at the University of British Columbia. She is a biological oceanographer whose doctoral research examined *Salpa thompsoni* diel vertical migration and its influence on Southern Ocean ecosystem structure and function, with particular emphasis on active carbon transport, population-level scaling, and implications for biogeochemical models.

Alexis is an active contributor to the Integrating Climate and Ecosystems Dynamics (ICED) working group, where her research supports improved ecosystem-based management of Antarctic krill fisheries. She also coordinates early-career researcher participation in the Southern Ocean Carbon and Climate Observations and Modelling Project (SOCCOM). In parallel, as a researcher with the Canadian Consortium for Science Equity Scholars, she analyzes large, multi-institutional socio-demographic and classroom experience survey datasets and produces instructor-facing visual and analytic reports, having generated over 135 reports across 12 Canadian institutions.

Previously, Alexis was a Research Assistant at Johns Hopkins University, where she investigated ocean circulation parameterizations in Earth System Models and published two first-author peer-reviewed studies. She holds an M.Sc. in Environmental Sciences and Policy from Johns Hopkins University and a B.Sc. in Environmental Science from Loyola University Chicago. She is highly proficient in R, MATLAB, LaTeX, and Microsoft Office, and has presented her work at 12 scientific conferences, serving as Chair Convener for two.

EDUCATION

Aug '20 – Dec '25	PhD, Oceanography Specialization: Biological Oceanography <i>Department of Earth, Ocean, and Atmospheric Sciences</i> <i>The Institute of Oceans and Fisheries</i> <i>The University of British Columbia</i> Vancouver, BC, Canada Advisor: Evgeny Pakhomov Dissertation title: “A Multi-Method Approach to Investigating the Influence of <i>Salpa thompsoni</i> Daily Migratory Behavior on the Southern Ocean Biological Carbon Pump”
Jan '17 – Aug '18	MSc, Environmental Sciences and Policy Specialization: Environmental Management <i>Advanced Academic Programs</i> <i>Department of Earth and Planetary Sciences</i> <i>Johns Hopkins University</i> Baltimore, MD, United States Advisors: Jerry Burgess and Anand Gnanadesikan Thesis title: “Understanding the Effects of Doubled CO ₂ on the Biological Pump in an Earth System Model: An Imperative for Ocean Science and International Climate Change Policy” Relevant Coursework: Oceanic and Atmospheric Processes, Hydrology and Water Resources, Statistics and Political Analysis, Geological Foundations of Environmental Science, Climate Change Policy Analysis, Science of Climate Change and its Impact

Sep '12 – Aug '15	BSc, Environmental Science <i>School of Environmental Sustainability</i> <i>Loyola University Chicago</i> Chicago, IL, United States Advisor: Christopher Peterson Capstone title: “The Impacts of Blast Fishing and Shark Finning in the South China Sea” Relevant Coursework: Fundamental Statistics, General Biology I and II, General Chemistry I and II, Applied Calculus I, Calculus II, General Biology Lab, General Chemistry Lab, Intro. to GIS, Human Dimension of Conservation, Environmental Economics, Ecology
Sep '09 – May '12	AA, Liberal Arts <i>Washtenaw Community College</i> Ann Arbor, MI, United States Honors: Graduated with Honors

HONORS AND AWARDS

Dates	Type	Amount	Description
April 2025	Award	\$1,000 CAD	Killam Graduate Teaching Assistant Award
June - Aug 2025	Award	\$1,066 CAD	International Tuition Award
Sept - Dec 2024	Award	\$970 CAD	President's Academic Excellence Initiative PhD Award
Sept - Dec 2024	Scholarship	\$1,450 CAD	Robert Rutherford Rae Scholarship
Sept - Dec 2024	Award	\$2,133 CAD	International Tuition Award
March 2024	Nomination	-	Early Career Ocean Professional Presentation Nomination at the 7th Zooplankton Production Symposium
March 2024	Award	\$825 USD	North Pacific Marine Science Organization (PICES) and the International Council for the Exploration of the Sea (ICES) Travel Grant to attend the 7th Zooplankton Production Symposium
Jan - May 2024	Award	\$1,066 CAD	International Tuition Award
Jan - May 2024	Fellowship	\$6,066 CAD	Four Year Fellowships (4YF) For PhD Students
Jan - May 2024	Fellowship	\$2,163 CAD	Four Year Fellowships (4YF) Tuition Award
Jan - May 2024	Award	\$485 CAD	President's Academic Excellence Initiative PhD Award
Jan - May 2024	Scholarship	\$3,550 CAD	Department of Earth, Ocean and Atmospheric Sciences Graduate Scholarship
Sept 2023	Bursary	\$2,350 USD	Woods Hole Ocean Twilight Zone Symposium Early Career Researcher Travel Bursary
Sept - Dec 2023	Award	\$2,133 CAD	International Tuition Award
Sept - Dec 2023	Fellowship	\$12,133 CAD	Four Year Fellowships (4YF) For PhD Students
Sept - Dec 2023	Fellowship	\$4,200 CAD	Four Year Fellowships (4YF) Tuition Award
Sept - Dec 2023	Award	\$950 CAD	President's Academic Excellence Initiative PhD Award
Sept - Dec 2023	Scholarship	\$3,150 CAD	Chih-Chuang and Yien-Ying Wang Hsieh Memorial Scholarship
Sept - Dec 2023	Scholarship	\$600 CAD	Captain Thomas S Byrne Scholarship
Sept - Dec 2023	Scholarship	\$825 CAD	Kit Malkin Scholarship
April 2023	Award	\$50 CAD	2023 EOAS Graduate Poster Award
June - Aug 2023	Award	\$1,066 CAD	International Tuition Award
June - Aug 2023	Fellowship	\$2,100 CAD	Four Year Fellowships (4YF) Tuition Award
June - Aug 2023	Fellowship	\$6,066 CAD	Four Year Fellowships (4YF) For PhD Students
Jan - May 2023	Award	\$475 CAD	President's Academic Excellence Initiative PhD Award
Sept - Dec 2022	Fellowship	\$12,133 CAD	Four Year Fellowships (4YF) For PhD Students
Sept - Dec 2022	Fellowship	\$4,075 CAD	Four Year Fellowships (4YF) Tuition Award

Sept - Dec 2022	Award	\$2,133 CAD	International Tuition Award
Sept - Dec 2022	Award	\$1,080 CAD	President's Academic Excellence Initiative PhD Award
Sept - Dec 2022	Award	\$500 CAD	Graduate Student Travel Award
Sept - Dec 2022	Award	\$3,100 CAD	Paul J. Harrison Memorial Award in Oceanography
Sept - Dec 2022	Award	\$2,200 CAD	David Green Award in Oceanography
Feb 2022	Award	\$550 USD	2022 Ocean Sciences Meeting Registration Award
June - Aug 2022	Award	\$1,066 CAD	International Tuition Award
June - Aug 2022	Fellowship	\$2,038 CAD	Four Year Fellowships (4YF) Tuition Award
Jan - May 2022	Award	\$540 CAD	President's Academic Excellence Initiative PhD Award
Aug - Dec 2021	Fellowship	\$3,954 CAD	Four Year Fellowships (4YF) Tuition Award
Aug - Dec 2021	Award	\$2,133 CAD	International Tuition Award
Aug 2021 - May 2022	Fellowship	\$25,000 CAD	Li Tze Fong Memorial Affiliated Fellowship
Aug - Dec 2021	Award	\$1,030 CAD	President's Academic Excellence Initiative PhD Award
Aug - Dec 2021	Scholarship	\$5,000 CAD	Special UBC Graduate Scholarship
Jan - May 2021	Award	\$1,066 CAD	International Tuition Award
Jan - May 2021	Fellowship	\$6,066 CAD	Four Year Fellowships (FYF) For PhD Students
Jan - May 2021	Award	\$515 CAD	President's Academic Excellence Initiative PhD Award
Jan - May 2021	Fellowship	\$1,977 CAD	Four Year Fellowships (4YF) Tuition Award
Nov 2020	Scholarship	-	Vanier Scholar - Departmental Candidate
Sept - Dec 2020	Award	\$2,133 CAD	International Tuition Award
Sept - Dec 2020	Fellowship	\$12,133 CAD	Four Year Fellowships (FYF) For PhD Students
Sept - Dec 2020	Fellowship	\$3,835 CAD	Four Year Fellowships (4YF) Tuition Award
Sept - Dec 2020	Award	\$652 CAD	President's Academic Excellence Initiative PhD Award
Sept - Dec 2020	Scholarship	\$1,000 CAD	Kit Malkin Scholarship
Sept - Dec 2020	Scholarship	\$1,181 CAD	Special UBC Graduate Scholarship
Sept 2012	Scholarship	\$1,500 USD	Phi Theta Kappa Honors Society Scholarship
2012 - 2015	Scholarship	\$5,500 USD	Transfer Presidential Scholarship
Jan - May 2012	Scholarship	\$5,000 USD	Foundation Scholarship
Sept - Dec 2010	Distinction	-	Dean's High Honor Roll
Sept - Dec 2011	Distinction	-	Dean's Honor Roll

GRANTS

Aug 2022 - Sept 2023	\$17,394 USD	National Geographic Society Early Career Grant
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RESEARCH EXPERIENCE

Jan '23 - Present **Researcher, Canadian Consortium of Science Equity Scholars**

University of British Columbia

Vancouver, BC

Supervisor: Jacklyn Stewart

Responsibilities:

- Design and maintain end-to-end, reproducible R Markdown pipelines for processing and visualizing large, multi-institutional survey datasets, integrating raw survey responses, correction surveys, and institutional records.

- Generate and visualize course-level and institution-level survey summaries (e.g., participation rates, unmatched patterns, timing distributions) to support instructor interpretation, auditing, and instructional decision-making.
- Evaluate and refine recovery strategies for incomplete or erroneous survey identifiers, applying controlled correction logic.
- Develop deterministic, auditable respondent-matching frameworks that prioritize student identifiers, enforce one-to-one mappings, and minimize false positives in survey attribution.
- Apply rigorous data-integrity, reproducibility, and ethical-handling standards across all stages of survey analysis, from raw ingestion to instructor-facing visual and tabular outputs.

- Sep '17 – Sep '20 Research Assistant
Department of Earth and Planetary Sciences, Johns Hopkins University
 Baltimore, MD
 Supervisor: Anand Gnanadesikan
 Responsibilities:
 -Compared GFDL-ESM2Mc with CMIP5 models to analyze uncertainties in physical dynamics
 -Performed quantitative analysis on ocean mixing and biogeochemical parameters
 -Synthesized large amounts of data and research material into scientific papers
 -Determined marine ecosystem change under doubling CO₂ perturbations
 -Represented JHU at global conferences by communicating results with scientists and policymakers
 -Drafted documents to explain complex information to varying audiences accurately
- Jul '15 – Jan '16 Research Assistant
Institute of Environmental Sustainability, Loyola University Chicago
 Chicago, IL
 Supervisor: Tham Hoang
 Responsibilities:
 -Evaluated Micro-plastic contamination impact on freshwater and saltwater fish species through dissection and light microscopy
 -Characterized developmental effects of plastic pollution on freshwater and saltwater fish species
 -Generated and analyzed biodiversity loss due to the presence of micro-plastics
 -Prepared written documents that translated quantitative data into summarized materials
 -Executed experimental design techniques by testing samples through various chemical analyses and centrifugation techniques
- Jul – Aug '14 Volunteer Research Assistant
Tropical Research and Conservation Centre
 Sabah, Malaysia
 Supervisor: Fletcher Sunde
 Responsibilities:
 -Developed in-the-field processes to plant coral fragments to restore the coral community
 -Interviewed local community members to build consensus on possible alternatives to blast-fishing and shark finning
 -Engaged the local community for educational opportunities
 -Performed the necessary training to be an advanced PADI-certified diver
 -Conducted fish, anemone, shark, ray, and turtle ID surveys to code and identify individuals in partnership with the Photo-ID network
- Jun – Jul '14 Field Studies Volunteer
Cetacean Research and Rescue Unit
 Banff, Scotland
 Supervisor: Kevin Robinson
 Responsibilities:
 -Collected sonar data with an Echo sounding sonar instrument
 -Trained in marine mammal rescue techniques
 -Synthesized all data into GIS to analyze changing migration patterns

-Conduct photo-identification studies on Bottlenose dolphins, Minke whales, and Porpoises
-Synthesized study materials and data into documents sent to St. Andrews University, University of Aberdeen, and University of Dublin

TEACHING EXPERIENCE

Accreditations

Oct '23 CIRTL Associate - Certificate
Centre for Integration of Research, Teaching, and Learning (CIRTL) at UBC
The University of British Columbia

Committees

Sept '25 - Present Committee Member, Killam Teaching Award Committee
The University of British Columbia

Courses

Jan '26 - Present Sessional Lecturer, First-Year Seminar in Science (SCIE 113)
The University of British Columbia
1 term

Jan '24 - Dec '25 Sessional Lecturer, The Ocean Ecosystem (EOSC 315)
The University of British Columbia
3 terms

Sept - Dec '24 Teaching Assistant, The Ocean Ecosystem (EOSC 315.99)
The University of British Columbia
1 term

Jan '22 - Dec '23 Teaching Assistant, The Ocean Environment (EOSC 314)
The University of British Columbia
5 terms

July - Aug '23 Sessional Lecturer, Earth and Ocean Sciences
The University of British Columbia, Vancouver Summer Program
1 term

Sept - Dec '22 Teaching Assistant, Natural Disasters (EOSC 114)
The University of British Columbia
1 term

May - Aug '22 Teaching Assistant, The Ocean Ecosystem (EOSC 315.98A)
The University of British Columbia
1 term

Jan - May '21 Sessional Lecturer, Climate Measurement and Analysis (EOSC 442.201)
The University of British Columbia
1 term

PROFESSIONAL EXPERIENCE

Sept '25 - Present **Project Coordinator, Canadian Consortium of Science Equity Scholars**
University of British Columbia
Vancouver, BC
Supervisor: Jacklyn Stewart
Responsibilities:

- Serve as the primary liaison between instructional staff across 8 Canadian institutions and 20+ courses, communicating survey logistics, timelines, and data limitations.
- Manage the full lifecycle of survey deliverables, producing raw participation files, corrected bonus files for grade upload, unmatched respondent reports, and instructor-facing documentation.
- Maintain and operationalize institutional planning sheets governing survey incentives, closing dates, and approved course-level exceptions, with automated logging and error flagging.
- Oversee early-term bonus workflows prior to class-list availability and coordinate reconciliation once official rosters are released later in the term.
- Coordinate time-sensitive bonus-mark processing across institutions and academic terms, delivering standardized outputs within defined post-survey turnaround windows.

Dec '18 – Aug '20 Coordinator, Perpetual Planet

National Geographic Society

Washington, DC

Supervisor: Nicole Alexiev

Responsibilities:

- Conducted literature reviews on scientific topics and synthesized them into internal reports
- Developed framework for 2 capacity-building grants and reviewed applications
- Led logistics and planning for 4 local and 1 international convening
- Streamlined communications with internal colleagues and external stakeholders
- Conducted quantitative analysis on biogeochemical cycles in high-alpine and rainforest environments to create an index featured on NG EarthPulse website
- Created presentation materials, expedition science reports, monthly and quarterly financial reports, and more, in support of the initiative and at the direction of the Senior Program Manager and Vice President
- Managed project organization in Wrike software and served as program point person

Jan – May '18 Science and Solutions Intern

The Climate Reality Project

Washington, DC

Supervisor: Marshall Geck

Responsibilities:

- Drafted policy memos and presentation material for former Vice President Al Gore
- Conducted thorough analyses of environmental policy, both national and international
- Curated former Vice President Al Gore's talking points for Climate Reality training events
- Responsible for writing educational material on current legislation for public viewing
- Identified topical stories and drafted weekly blog posts for the Reality Hub website
- Volunteered to conduct an independent research project to provide future guidance for The Climate Reality Project strategy. This document was titled: 'Greenhouse Gas Emissions' Impact on Marine Ecosystems and Future Ocean Sequestration

Jun '16 – Jul '17 Executive Assistant

National Immigrant Justice Center

Chicago, IL

Supervisor: Mary Meg McCarthy

Responsibilities:

- Developed, compiled, and organized the annual "Human Rights Awards" Campaign
 - Edited law journals and peer-reviewed technical grants
 - Raised over \$1 million dollars for the first time in company history by building and sustaining relationships with old and new donors
 - Managed and prepared information on immigration law for in-house attorneys
 - Trained 2 interns and 1 supervisor in all administrative tasks and legal editing procedures
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PEER-REVIEWED PUBLICATIONS

Bahl, A. A., Bahlburg, D., Veytia, D., Sylvester, Z., Green, D. B., Halfter, S., Liszka, C. M., O'Sullivan, D., Rombolá, E. F., Ryabov, A., Thorpe, S. E., Pakhomov, E. A., Kawaguchi, S., Hofmann, E. E., Johnston, N., Young, E. F., Conroy, J. A., Bernard, K. S., and Murphy, E. J. (in prep). Identifying and prioritising key data gaps for modelling Antarctic krill recruitment. *ICES Journal of Marine Science, Zooplankton Production Symposium Special Issue*.

Bahl, A. A., Hill, S. L., Kwong, L. E., and Pakhomov, E. A. (in prep). Life Cycle Stage and Body Size Dramatically Influence Salp Carbon Export: Insight From a Mechanistic Model. *Limnology and Oceanography*.

Bahl, A. A., Luskow, F., Iversen, M., Korad, C., Pakhomov, E. A. (in prep). Southern Ocean Diel Vertical Migration: Camera vs. net methodologies. *Marine Biology*.

Bahl, A. A., Pakhomov, E. A., Batta-Lona, P., Halfter, S., Baker, K., and Luskow, F. (in prep). Global Salp Synthesis: Migratory Behavior, Genetics, Rates, Stoichiometry, Food-web Dynamics, and Climate Change Impacts. *Nature Communications*.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., & Pakhomov, E. A. (2026). Southern Ocean salp diel vertical migration and the significant influence of life cycle stage and body size. *Journal of Marine Systems*, 253, 104161. <https://doi.org/10.1016/j.jmarsys.2025.104161>

Sylvester, Z., Veytia, D., **Bahl, A.A.**, Bahlburg, D., Benkort, D., Bestley, S., Cagdas, B., Cleary, A. C., Constable, A., Corney, S., Fach, B. A., Hellessey, N., Hill, S. L., Johnston, N. M., Labrousse, S., Merkel, B., Meyer, B., Murphy, E., Subramaniam, R. C., Thorpe, S., and Raymond, B. (2025). Untangling the Complexities of Larval Antarctic Krill Overwintering Success Under Climate Change. *ICES Journal of Marine Science, Zooplankton Production Symposium Special Issue*. <https://doi.org/10.1093/icesjms/fsaf049>

Pakhomov, E. A., Mole, R., **Bahl, A. A.**, von Appen, W. J., & Luskow, F. (2025). Early spring population dynamics of *Salpa thompsoni* linked to physical oceanography in the Atlantic sector of the Southern Ocean. *Polar Biology*, 48(1). <https://doi.org/10.1007/s00300-024-03342-w>

Luskow, F., **Bahl, A. A.**, Décima, M., Steinberg, D. K., and Pakhomov, E. A. (2024). Reproductive biology, elemental composition, and diel vertical migration of the cosmopolitan warm-temperate pelagic tunicate *Soestia zonaria*. *Journal of Plankton Research*, 00, 1-13. <https://doi.org/10.1093/plankt/ad053>

Kwong, L. E., **Bahl, A. A.**, and Pakhomov, E. A. (2022). Variability in micronekton active carbon transport estimates on the southwest coast of Oahu using three different sampling gears. *Frontiers in Marine Science: Marine Biogeochemistry*. <https://doi.org/10.3389/fmars.2022.948485>

Bahl, A., Gnanadesikan, A., and Pradal, M.-A. (2020). Scaling global warming impacts on ocean ecosystems: Lessons from a suite of Earth System Models. *Frontiers in Marine Science: Global Change and the Future Ocean*, 7:698. <https://doi.org/10.3389/fmars.2020.00698>

Covey, K., Soper, F., Pangala, S., Bernardino, A., Pagliaro, Z., Basso, L., Cassol, H., Fearnside, P., Navarrete, D., Novoa, S., Sawakuchi, H., Lovejoy, T., Marengo, J., Peres, C.A., Baillie, J., Bernasconi, P., Camargo, J., Freitas, C., Hoffman, B., Nardoto, G.B., Nobre, I., Mayorga, J., Mesquita, R., Pavan, S., Pinto, F., Rocha, F., de Assis Mello, R., Thuault, A., **Bahl A.A.** and Elmore, A. (2021). Carbon and Beyond: The Biogeochemistry of Climate in a Rapidly Changing Amazon. *Frontiers in Forests and Global Change: Tropical Forests*. 4:618401. <https://doi.org/10.3389/ffgc.2021.618401>

Immerzeel, W.W., Lutz, A.F., Andrade, M., **Bahl, A.**, Biemans, H., Bolch, T., Hyde, S., Brumby, S., Davies, B.J., Elmore, A.C., Emmer, A., Feng, M., Fernández, A., Haritashya, U., Kargel, J.S., Koppes, M., Kraaijenbrink, P.D.A., Kulkarni, A.V., Mayewski, P.A., Nepal, S., Pacheco, P., Painter, T.H., Pellicciotti, F., Rajaram, H., Rupper, S., Sinisalo, A., Shrestha, A.B., Viviroli, D., Wada, Y., Xiao, C., Yao, T., Baillie, J.E.M., (2019). Importance and vulnerability of the world's water towers. *Nature* 577. <https://doi.org/10.1038/s41586-019-1822-y>

Bahl, A., Gnanadesikan, A., Pradal, M.-A. (2019). Variations in Ocean Deoxygenation Across Earth System Models: Isolating the Role of Parameterized Lateral Mixing. *Global Biogeochem. Cycles* 33, 703–724.
<https://doi.org/10.1029/2018GB006121>

REPORTS

Grigoratou, M., et al. (2023). Workshop report: Towards a global marine plankton observing network. G7 Future of the Seas and Oceans Initiative (FSOI) and the GOOS Biology and Ecosystem Panel. Online participant. 25-27 September 2023.

Klaas, C. (2023): The Expedition PS133/1 of the Research Vessel Polarstern to the Atlantic Ocean in 2022 / H. Bornemann and S. Amir Sawadkuhi (editors) , Berichte zur Polar- und Meeresforschung = Reports on polar and marine research, Bremerhaven, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, 774 , 144 p. doi: 10.57738/BzPM_0774_2023

Z. Sylvester, D. Veytia, **A. Bahl**, D. Bahlburg, E. Murphy, N. Johnston, S. Corney, C. Brooks, B. Meyer, E. Hofmann and S. Thorpe. Using models to improve our understanding of Antarctic krill and their ecological role: Report of the Integrating Climate and Ecosystem Dynamics of the Southern Ocean (ICED) workshop, 2021. WG-EMM-2021/23. CCAMLR. <https://meetings.ccamlr.org/en/wg-emm-2021/23>

Veytia, D., **Bahl, A.**, Sylvester, Z., Bahlburg, D., Murphy, E., Corney, S., Hofmann, E., Johnston, N., Meyer, B., and Brooks, C. (2021). Workshop report: Using models to improve our understanding of Antarctic krill and their ecological role in the Southern Ocean. Integrating Climate and Ecosystem Dynamics of the Southern Ocean (ICED). Online Organizer. May, 2021. DOI: 10.5281/zenodo.6780069

CONFERENCE PRESENTATIONS

Lüskow, F., **Bahl, A. A.**, Pakhomov, E. A., Mtwana Nordlund, L. Shifting dominance in the Southern Ocean: Ecological and societal implications of the Antarctic krill-salp dynamic under climate change. Oral presentation. 8th Jellyfish Blooms Symposium, Cork city, Ireland, 29th June 2026.

Bahl, A. A., Hill, S. L., Kwong, L. E., Pakhomov, E. A. Size, Migration, and Carbon Export: New Constraints on Salp Impacts in the Southern Ocean. Oral presentation. SCAR Open Science Conference. Oslo, Norway, August 2026.

Stewart, J. J., **Bahl, A.**, Hofmann, Ives, J., Kelly, T., Mahtani, T., McNeil, S. W., Stang, J. Equity Trends in Canadian Undergraduate Chemistry Education. Oral presentation. Canadian Societies for Chemistry and Chemical Engineering Conference, Toronto, Canada, May 2026.

Bahl, A. A., Ives, J., and Kelly, T. Consortium Report Unveiling and Discussion. Oral Presentation. Canadian Consortium of Science Equity Scholars Annual Retreat, Vancouver, BC, June 2024.

Bahl, A. A., Hofmann, A., Ives, J., Mahtani, T., Savile, E., Smith, K., Stang, J., and Stewart, J. J. Sharing Sociodemographic and Student Experience Data with Instructors to Promote Equity-minded Teaching. Poster presentation. Annual Science Education Open House, Vancouver, BC, April 2024.

Bahl, A. A., Hofmann, A., Ives, J., Mahtani, T., Savile, E., Smith, K., Stang, J., and Stewart, J. J. Enhancing Equity in Science Education. Poster presentation. Annual Science Education Open House, Vancouver, BC, April 2024.

Brown, L., **Bahl, A. A.**, Douglas, C., Keppler, L., Joy-Warren, H. Polar Oceans Early Career Community Hour. Observing the Dynamics of the Southern Ocean. Oral Presentation. Scripps Institution of Oceanography, La Jolla, California, United States, April 2024.

Stewart, J. J., Ashok, A., **Bahl, A. A.**, Egorova, Y., Ives, J., Kelly, T., Mahtani, T., McNeil, S. W., Saville, E., Stang, J. Identifying opportunities for enhancing equity in first-year chemistry: a national approach. Poster presentation. Canadian Chemistry Conference, Winnipeg, Canada, June 2024.

Bahl, A. A., Bahlburg, D., Sylvester, Z., Veytia, D. et al. Cataloging past efforts to inform future priorities for modeling Antarctic Krill growth and development: a synthesis and conceptualization. Oral presentation. ICES-PICES 7th International Zooplankton Production Symposium, Hobart, Tasmania, March 2024.

Bahl, A. A., Hill, S. L., Kwong, L. E., Décima, M., Henschke, N., and Pakhomov, E. A. Estimating the influence of *Salpa thompsoni* migratory behavior on carbon export in the Southern Ocean: a stage- and size-specific approach. Oral presentation. ICES-PICES 7th International Zooplankton Production Symposium, Hobart, Tasmania, March 2024.

Décima, M., Stukel, M., Gutierrez-Rodriguez, A., Nodder, S., Safi, K., Meyers, M., Fender, C., Kelly, T., Luskow, F., **Bahl, A. A.**, Pakhomov, E. A., and Pinkerton, M. Salps vs. crustaceans: comparing their contribution to carbon export pathways in the Southern Ocean Subtropical Convergence Zone. Oral presentation. ICES-PICES 7th International Zooplankton Production Symposium, Hobart, Tasmania, March 2024.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., and Pakhomov, E. A. Southern Ocean salp migratory patterns vary by life cycle stage and size. Poster presentation. ICES-PICES 7th International Zooplankton Production Symposium, Hobart, Tasmania, March 2024.

Pakhomov, E. A., **Bahl, A. A.**, Luskow, F., Mole, R., and von Appen, W.-J. Early spring *Salpa thompsoni* population dynamics in the Atlantic sector of the Southern Ocean. Oral presentation. ICES-PICES 7th International Zooplankton Production Symposium, Hobart, Tasmania, March 2024.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., and Pakhomov, E. A. Southern Ocean salp migratory patterns vary by life cycle stage and size. Oral presentation. Biodiversity, Ecology, and the Biological Carbon Pump in the Ocean Twilight Zone Symposium, Woods Hole, MA, September 2023.

Stewart, J., Ives J., Smith, K., Egorova, Y., **Bahl, A. A.**, and Saville, L. Exploring outputs from a CCSES Instructor Report – Learning and Possibilities. Poster presentation. Annual Science Education Open House, Vancouver, BC, April 2023.

Stewart, J., Ives J., Smith, K., Egorova, Y., **Bahl, A. A.**, Rathod, B., and Saville, L. Enhancing Equity in Post-Secondary Science. Poster presentation. Annual Science Education Open House, Vancouver, BC, April 2023.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., and Pakhomov, E. A. Investigating life cycle stage and size on salp migration patterns in the Southern Ocean. Poster presentation. Gordon Research Conference: Polar Marine Science, Ventura, CA, March 2023.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., and Pakhomov, E. A. Salp diel vertical migration patterns across the globe: investigating size- and stage-specificity against environmental cues. Poster presentation. Ocean Sciences Meeting, Online, March 2022.

Ibáñez, M. M., Gremion, G., Casado, M., Rabanal, V., Bergstedt, H., Therese Vance, G., Rosenbaum, P., **Bahl, A.** Participation of Early Career Researchers in Group Reviews of the IPCC Reports: Outcomes and Lessons Learned. Oral presentation. AGU Fall Meeting, New Orleans, LA, December 2021.

Bahl, A., and Hill, S. Approaches for Ecosystem Modelling: Ecopath. Oral presentation. ICED Krill Modelling Workshop, Online, May 2021.

Kristofer R. Covey, Soper, F.M, Bernardino, A.F., Pangala, S., Pagliaro, **Bahl, A.**, et al. Carbon and beyond: Interactive global change impacts on Amazon biogeochemical cycles. Poster presentation. AGU Fall Meeting, San Francisco, CA, December 2020.

Bahl, A., Gnanadesikan, A., and Pradal, M.-A. Scenario and model uncertainty in ocean biogeochemical response: Isolating the role of ocean lateral mixing. Poster presentation. Ocean Sciences Meeting, San Diego, CA, February 2020.

Bahl, A., Gnanadesikan, A., and Pradal, M.-A. Scenario and model uncertainty in ocean biogeochemical response: Isolating the role of ocean lateral mixing. Poster presentation. AGU Fall Meeting, San Francisco, CA, December 2019.

Bahl, A., Gnanadesikan, A., and Pradal, M.-A. Understanding the Impacts of Eddy Mixing on Biogeochemical Cycles in Earth System Models. Poster presentation. AGU Fall Meeting, Washington, DC, December 2018.

Pradal, M.-A., Gnanadesikan, A., and **Bahl, A.** Impacts of lateral mixing parameterization on physical and biogeochemical climate sensitivity. Oral presentation. AGU Fall Meeting, Washington, DC, December 2018.

Bahl, A., Gnanadesikan, A., and Pradal, M.-A. Impact of Parametrized Eddy Mixing on the Sensitivity of Ocean Biogeochemical Cycling to Doubled CO₂ Within an Earth System Model. Oral presentation. PICES 2018 International Symposium: The Climate Change Effects on the World Oceans, Washington, DC, June 2018.

Gnanadesikan, A., **Bahl, A.,** and Pradal, M.-A. Lateral mixing and ocean biogeochemical cycling. Poster presentation. Ocean Mixing, Gordon Research Conference: Towards a Global Representation of the Impact of Ocean Mixing Processes on Large Scale Circulation, Andover, NH, June 2018.

Bahl, A. A., Luskow, F., Décima, M., Steinberg, D. K., and Pakhomov, E. A.. Impact of Parametrized Eddy Mixing on the Sensitivity of Ocean Biogeochemical Cycling to Doubled CO₂ Within an Earth System Model. Poster presentation. AGU Ocean Sciences Meeting, Portland, OR, February 2018.

FIELD EXPERIENCE

PS133/1 Alfred Wegener Institute, South Atlantic sector of the Southern Ocean. 1 Oct - 17 Nov

PROFESSIONAL LEARNING AND WORKSHOP PARTICIPATION

May 3-6, '25	Ross Sea Region Marine Protected Area Research Coordination Network Inaugural Meeting <i>University of Colorado Boulder</i> Hybrid
Sept 25 - 27, '23	Towards a global marine plankton observing network: development of a strategy and implementation plan Workshop <i>G7 FSOI – GOOS, Mercator Ocean International</i> Online
May 2 - 6, '22	Marine Species Distribution Modelling Workshop <i>The Institute of Oceans and Fisheries, University of British Columbia</i> Vancouver, BC
March 7 - 11, '22	Annual online workshop of the SCAR Krill Action Group <i>Scientific Committee on Antarctic Research (SCAR)</i> Online
March 9 - 10, '22	Arctic Ocean Convening <i>The National Geographic Society</i> Online
Aug 9 - 13, '21	ClimEco7 Summer School - Interdisciplinary ocean science for sustainable development <i>Integrated Marine Biosphere Research (IMBeR)</i> Online
May 17 - 20, '21	ICED Krill Workshop 2021 <i>Integrating Climate and Ecosystem Dynamics in the Southern Ocean (ICED)</i> Online

Apr 13 - Jun 4, '20	Certification: Writing in the Sciences <i>Stanford University</i> Online
Oct 23 - 25, '19	Certification: Strategies for Developing Effective Presentation Skills <i>American Management Association</i> Arlington, VA
Jun 18 - 19, '19	Monitoring Forests, Mobilizing Action <i>The Global Forest Watch Summit</i> Washington, DC
Apr 4, '19	<i>Report Launch</i> Ecology Meets Geopolitics: Water Security in Himalayan Asia <i>Atlantic Council</i> Washington, DC

PROFESSIONAL ASSOCIATIONS

Sept '23 - Present	Joint Exploration of the Twilight Zone Ocean Network (JETZON)
March '23 - Present	Marine Biodiversity Observation Network (MBON)
Sept '22 - Present	Southern Ocean Carbon and Climate Observations and Modeling (SOCCOM)
Jan '21 - Present	Integrating Climate and Ocean Ecosystem Dynamics (ICED) Scientific Committee on Antarctic Research Krill Expert Group (SKEG)
Oct '20 - Present	Interdisciplinary Marine Early Career Network (IMECaN) Integrated Marine Biosphere Research (IMBeR)
Feb '20 - Present	Association of Polar Early Career Scientists (APECS)
May '19 - Present	Deep-Sea Biology Society
Sep '17 - Present	American Geophysical Union
Sep '17 - Present	The Oceanography Society
Sep '17 - Present	Young Earth System Scientists Community

EXTRACURRICULAR ACTIVITIES

Jan '23 - Present	Zooplankton Reading Group
Sept '22 - Present	SOCCOM Community Hour
Oct '21 - Apr '22	Undergraduate Research Opportunities (REX) Mentor
Sept '21 - Present	Southern Ocean Decade Working Group #2 Member
Feb '21 - Present	Integrating Climate and Ecosystem Dynamics in the Southern Ocean (ICED) Working Group Member <ul style="list-style-type: none"> ICED Krill Workshop 2021 organizer, presenter, and moderator

Sept '20 - Sept '21	Association of Polar Early Career Scientists (APECS) Council Member <ul style="list-style-type: none"> • IASC Fellowship Review Working Group member • IPCC AR6 WGII Chair (chapter 16) and reviewer (chapter 16 and chapter 3)
Dec '20 - June '21	Climate Emergency Council
Sept '20 - March '21	Graduate Council <ul style="list-style-type: none"> • Sustainability council member • Buddy program - new graduate student
May '19 - Dec '20	Deep-Sea Biology Society -Mentoring network
Jan – May '19	National Geographic Society -Events volunteer
Oct – Dec '18	American Geophysical Union -Maryland Congressional Visit lead -Mentoring365
Oct '17 – May '18	TriBeta Biological Honors Society -Graduate mentorship
Sep – Dec '17	Johns Hopkins University -Capitol Hill volunteer
Jan – Feb '16	Tataa Kids Orphanage and Education Center -Community development and English teaching