

ALEXIS ANNE BAHL

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BIOGRAPHY

Alexis A. Bahl is a Ph.D. Candidate in Oceanography and a Four-Year Scholar with the University of British Columbia's Department of Earth, Ocean, and Atmospheric Sciences. Her dissertation, "An improved understanding of *Salpa thompsoni* diel vertical migration and its influence on Southern Ocean ecosystem structure and function" analyzes field-collected net and optic data with statistical and individual bioenergetic modeling methodological approaches. Alexis also serves an active role in the Integrating Climate and Ecosystems Dynamics (ICED) in the Southern Ocean working group, where she leads research with an international community to consolidate and synthesize knowledge that is directly provided to policymakers for improving Antarctic Krill fisheries management, as well as the Southern Ocean Carbon and Climate Observations and Modelling Project (SOCCOM) where she organizes early career researcher involvement. In addition to her scientific research, her current Researcher role with the Canadian Consortium for Science Equity Scholars includes processing and analyzing qualitative and quantitative student socio-demographic and classroom experience survey data and constructing individualized visual data reports. To date, she has provided over 135 unique reports to instructors from 12 Canadian Institutions. In her previous Research Assistant role with Johns Hopkins University Earth and Planetary Sciences Department, she analyzed ocean dynamic parameterization schemes in a suite of Earth System Models, where she published two first-author 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 and is skilled in R, Matlab, LaTeX, and Microsoft Excel, Word, and PowerPoint programs. Alexis has given 12 presentations on research results in over 10 national and international conferences, two of which she served as Chair Convener.

EDUCATION

Aug '20 – Present

PhD, Oceanography

Specialization: Biological Oceanography

Department of Earth, Ocean, and Atmospheric Sciences

The Institute of Oceans and Fisheries

The University of British Columbia

Vancouver, BC, Canada

Advisor: Evgeny Pakhomov

Thesis: "An improved understanding of *Salpa thompsoni* diel vertical migration and its influence on Southern Ocean ecosystem structure and function"

Jan '17 – Aug '18

MSc, Environmental Sciences and Policy

Specialization: Environmental Management

Johns Hopkins University

Baltimore, MD, United States

Advisors: Jerry Burgess & Anand Gnandesikan

Capstone: "Understanding the Effects of Doubled CO₂ on the Biological Pump in an Earth System Model: An Imperative for Ocean Science and International Climate Change Policy"

Relevant Coursework: Oceanic & Atmospheric Processes, Hydrology & 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**
Loyola University Chicago
Chicago, IL, United States
Advisor: Christopher Peterson
Capstone: “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**
Washtenaw Community College
Ann Arbor, MI, United States
Honors: Graduated with Honors

HONORS AND AWARDS

March 2024	Captain Thomas S Byrne Scholarship
March 2024	Dept of EOAS Graduate Scholarship
March 2024	Chih-Chuang and Yien-Ying Wang Hsieh Memorial Scholarship
March 2024	Kit Malkin Scholarship
March 2024	Early Career Ocean Professional 7th Zooplankton Production Symposium Presentation Nomination
March 2024	North Pacific Marine Science Organization (PICES) and the International Council for the Exploration of the Sea (ICES) Travel Grant to attend 7th Zooplankton Production Symposium
Sept 2020 - Aug 2024	Four-Year Fellowship
Sept 2020 - Aug 2024	Four-Year Fellowship Tuition Award
Sept 2023	Woods Hole Ocean Twilight Zone Symposium Early Career Researcher Travel Bursary
Sept - Dec 2023	Paul J. Harrison Memorial Award in Oceanography
Sept - Dec 2023	David Green Award in Oceanography
April 2023	2023 EOAS Graduate Poster Award
Sept 2020 - Aug 2023	President's Academic Excellence Initiative PhD Award
Jan - May 2022	Special UBC Graduate Scholarship-W.H. Mathews Scholarship
Feb 2022	2022 Ocean Sciences Meeting Registration Award
Sept 2021 - July 2022	Li Tze Fong Tri-Council Affiliated Fellowship
Jan - May 2021	W.H. Mathews Scholarship
Jan - May 2021	Kit Malkin Scholarship
Nov 2020	Vanier Scholar - Departmental Candidate
2020 – 2024	Faculty of Science Graduate Tuition Award
2020 – 2024	President's Academic Excellence Initiative Ph.D. Award
2020 – 2024	International Tuition Award
2012 - 2015	Phi Theta Kappa Honors Society Scholarship
2012 - 2015	Transfer Presidential Scholarship
Jan - May 2012	Foundation Scholarship
Sept – Dec 2010	Dean's High Honor Roll
Sept – Dec 2011	Dean's Honor Roll

GRANTS

Aug 2022 - Sept 2023 National Geographic Society Early Career Grant

RESEARCH EXPERIENCE

- Jan '23 - Present **Researcher and Data Analyst**
Canadian Consortium of Science Equity Scholars, University of British Columbia
Vancouver, BC
Supervisor: Jacklyn Stewart
Responsibilities:
-Synthesize first-year STEM student survey data from four Canadian universities
-Develop instructor reports in R Studio and perform exploratory analysis on survey results
-Present project goals at conferences and communicate strategies for improving inclusivity in STEM postsecondary courses
-Manage communications and project workflow with internal and external colleagues
- 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 accurately explain complex information to varying audiences
- 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

Courses

Jan - April ‘24

Sessional Lecturer, The Ocean Environment (EOSC 315)

The University of British Columbia

1 term

Jan ‘22 - Dec ‘23

Teaching Assistant, The Ocean Ecosystem (EOSC 314)

The University of British Columbia

5 terms

July - Aug ‘23

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 Environment (EOSC 315.98A)

The University of British Columbia

1 term

Jan - May ‘21

Lecturer, Climate Measurement and Analysis (EOSC 442.201)

The University of British Columbia

1 term

PROFESSIONAL EXPERIENCE

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	<p>Science and Solutions Intern <i>The Climate Reality Project</i> Washington, DC Supervisor: Marshall Geck Responsibilities:</p> <ul style="list-style-type: none"> -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	<p>Executive Assistant <i>National Immigrant Justice Center</i> Chicago, IL Supervisor: Mary Meg McCarthy Responsibilities:</p> <ul style="list-style-type: none"> - 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

PEER-REVIEWED PUBLICATIONS

Pakhomov, E. A., Mole, R., **Bahl, A. A.**, von-Appen, W.-J., and Lüskow, F. (submitted). Early spring population dynamics of *Salpa thompsoni* linked to physical oceanography in the Atlantic sector of the Southern Ocean. *Marine Biology*.

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. (submitted). Identifying and prioritising key data gaps for modelling Antarctic krill recruitment. *ICES Journal of Marine Science, Zooplankton Production Symposium Special Issue*.

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. (submitted). How important are knowledge gaps for predicting future overwinter survival of Antarctic krill larvae? *ICES Journal of Marine Science, Zooplankton Production Symposium Special Issue*.

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

Bahl, A. A., Hill, S. L., Kwong, L. E., Décima, M., and Pakhomov, E. A. (in prep). Estimating the influence of *Salpa thompsoni* migratory behavior on export in the Southern Ocean: a stage- and size-specific approach. *Limnology and Oceanography*.

Bahl, A. A., Lüskow, F., Décima, M., Steinberg, D., & Pakhomov, E. A. (in prep). The influence of life cycle stage and size on salp migration patterns in the Southern Ocean. *Progress in Oceanography*.

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

Lüskow, F., **Bahl, A. A.**, Décima, M., Steinberg, D. K., & Pakhomov, E. A. (in prep). Diel vertical migration patterns of four salp species – biological and environmental drivers for species size- and stage-specificity. *Limnology and Oceanography*.

Décima, M., Stukel, M., Nodder, S., Meyers, M., Fender, C., Kelly, T., Lüskow, F., **Bahl, A. A.**, Pakhomov, E. A., & Pinkerton, M. (in prep). Fecal pellets, death, and migration– quantifying the multiple contributions of salps to carbon export in the Southwest Pacific. *Frontiers in Marine Science*.

Lüskow, F., **Bahl, A. A.**, Décima, M., Steinberg, D. K., & 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.**, & 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.-AS. (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.** & 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., Vivenzio, D., Wada, Y., Xiao, C., Yao, T., Baillie, J.E.M., (2020). 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

Veytia, D., **Bahl, A.**, Sylvester, Z., Bahlburg, D., Murphy, E., Corney, S., Hofmann, E., Johnston, N., Meyer, B., & 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

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., & 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., Lüskow, F., **Bahl, A. A.**, Pakhomov, E. A., & 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., Lüskow, F., Décima, M., Steinberg, D. K., & 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.**, Lüskow, F., Mole, R., & 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., Lüskow, F., Décima, M., Steinberg, D. K., & 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.**, & 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., & Saville, L. Enhancing Equity in Post-Secondary Science. Poster presentation. Annual Science Education Open House, Vancouver, BC, April 2023.

Bahl, A. A., Lüskow, F., Décima, M., Steinberg, D. K., & 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., Lüskow, F., Décima, M., Steinberg, D. K., & 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., & 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., Lüskow, F., Décima, M., Steinberg, D. K., & 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

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 Ecology Meets Geopolitics: Water Security in Himalayan Asia</i> <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 <ul style="list-style-type: none">-Mentoring network
Jan – May '19	National Geographic Society <ul style="list-style-type: none">-Events volunteer
Oct – Dec '18	American Geophysical Union <ul style="list-style-type: none">-Maryland Congressional Visit lead-Mentoring365
Oct '17 – May '18	TriBeta Biological Honors Society <ul style="list-style-type: none">-Graduate mentorship
Sep – Dec '17	Johns Hopkins University <ul style="list-style-type: none">-Capitol Hill volunteer
Jan – Feb '16	Tataa Kids Orphanage and Education Center <ul style="list-style-type: none">-Community development and English teaching
Oct – Nov '15	WWOOF, Sweden <ul style="list-style-type: none">-Farm hand
Nov '14 – Jun '15	Paws Animal Shelter <ul style="list-style-type: none">-Dog walking and general office assistance