

# Leah Johnson

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## EDUCATION

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<b>PhD Oceanography</b> <i>University of Washington</i>	2018 <i>Seattle, WA</i>
<b>MS Applied Mathematics</b> <i>University of Washington</i>	2015 <i>Seattle, WA</i>
<b>MS Oceanography</b> <i>University of Washington</i>	2014 <i>Seattle, WA</i>
<b>MS Geosciences</b> <i>San Francisco State University</i>	2010 <i>San Francisco, CA</i>
<b>BS Physics</b> <i>University of California, Davis</i>	2004 <i>Davis, CA</i>

## RESEARCH POSITIONS

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**Senior Oceanographer, Applied Physics Laboratory, University of Washington** 2022-Present  
**Postdoctoral Researcher, Brown University** 2018-2021  
**Research Assistant, University of Washington** 2011-2018

## TEACHING EXPERIENCE

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**Instructor, GFL Workshop** - Chennai, India  
**Instructor, Atmospheric Dynamics** - Brown University  
**Instructor, Monsoon Workshop** - Ahmadabad, India  
**Instructor, Monsoon Workshop** - Bangalore, India  
**Teaching Assistant, Integrative Oceans** - University of Washington

## MEMBERSHIPS/COMMITTEES

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**Member** - CLIVAR Small-Scale Processes Working Group, 2024-present  
**Associate Editor** - Journal of Physical Oceanography, 2022-present  
**Steering Committee** - Mentoring Physical Oceanography Women to Increase Retention, 2020-2023  
**Member** - American Geophysical Union, 2007-present

## AWARDS

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**Ocean Sciences Early Career Award** American Geophysical Union, 2024  
**Young Investigators Program** Office of Naval Research, 2023  
**Editor's Award** American Meteorological Society, 2021  
**Competition Award** Association of Pacific Rim Universities/New York Times, 2017  
**Mary Landsteiner Scholar** University of Washington, 2015

## WORKSHOPS

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**Geophysical Flows** - From the Field to the Lab: Chennai, India, 2024  
**CLIVAR Summit**: Seattle WA, 2023  
**CLIVAR Mesoscale and Frontal-Scale Air-Sea Interactions Workshop**: Boulder CO, 2023  
**FilaChange** From filaments to climate change: recent advancements and future challenges in finescale ocean dynamics.: Providence RI, 2022  
**ICERM, Prediction and Variability of Air-Sea Interactions: the South Asian Monsoon**: Brown University, 2022  
**ICERM, Prediction and Variability of Air-Sea Interactions: the South Asian Monsoon**: Virtual, 2021  
**International Workshop, Ocean Monsoon Mixing**: Ahmadabad, India, 2020

**Air-Sea Interactions in the Bay of Bengal**, From Monsoons to Mixing: Bangalore, India, 2020  
**CLIVAR**, Ocean Carbon Hotspots Workshop: Biophysical drivers of carbon uptake in western boundary current regions : MBARI, 2017  
**W. M. Keck Institute for Space Studies**, Satellites to the Seafloor II: Autonomous Science to Forge a Breakthrough in Quantifying the Global Ocean Carbon Budget : Caltech, 2014  
**W. M. Keck Institute for Space Studies**, Satellites to the Seafloor I: Autonomous Science to Forge a Breakthrough in Quantifying the Global Ocean Carbon Budget : Caltech, 2013  
**NCAR Advanced Study Program**, Carbon Connections in the Earth System : NCAR, 2013  
**NCAR Advanced Study Workshop**, Key Uncertainties in the Global Carbon-Cycle : NCAR, 2013

## EXPEDITIONS

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**RV Thompson**, EKAMSAT: Bay of Bengal, India, 2024  
**RV Kronprins Haakon**, NORSE: Jan Mayen Ridge, Norwegian Sea, 2023  
**RSS Discovery**, EXPORTS: Porcupine Abyssal Plain, NA, 2021  
**RV Sally Ride**, MISOBAB: Bay of Bengal, India, 2019  
**RV Revelle**, Kuroshio Extension: South China Sea, 2017  
**RV Atlantis**, Davis Strait: Greenland, 2015  
**One Tree Island Research Station**, Great Barrier Reef: Australia, 2009  
**RV Point Sur**, California shelf: Santa Monica Basin, 2008

## PUBLICATIONS

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·**Johnson, L.**, Fox-Kemper, B., (2024) Modification of Boundary Layer Turbulence by Submesoscale Flows. *Flow*, 4, E20.  
·San Soucie, J. E., Sosik, H. M., Girdhar, Y., Shalapyonok, A., Peacock, E., and **Johnson, L.** (2024). Spatiotemporal Topic Modeling Reveals Storm-Driven Advection and Stirring Control Plankton Community Variability in an Open Ocean Eddy. *Journal of Geophysical Research: Oceans*, 129(11), e2024JC020907.  
·Brzezinski, M. A., **Johnson, L.**, Estapa, M., Clevenger, S., Roca-Martí, M., Romanelli, E., ... and Jones, J. L. (2024). Physical mechanisms sustaining silica production following the demise of the diatom phase of the North Atlantic spring phytoplankton bloom during EXPORTS. *Global Biogeochemical Cycles*, 38(7), e2023GB008048.  
·**Johnson, L.**, Siegel, D., Thompson, A., Fields, E., Erickson, Z., Cetinic, I., Lee, C., D'Asaro, E., Nelson, N., Omand, M. and Sten, M., et al. (2023) Assessment of oceanographic conditions during the North Atlantic EXport processes in the ocean from RemoTe Sensing (EXPORTS) Field campaign. *Progress in Oceanography*, 103170.  
·Erickson, Z. K., Fields, E., **Johnson, L.**, Thompson, A. F., Dove, L. A., D'Asaro, E., and Siegel, D. A. (2023). Eddy tracking from in situ and satellite observations. *Journal of Geophysical Research: Oceans*, e2023JC019701.  
·Ackerman, A., Yarincik, K., Murphy, S., Cetinić, I., Fundis, A., Miller, A.,...**Johnson, L.** et al. (2023). KNOW BEFORE YOU GO. *Oceanography*, 36(1), 38-43.  
·**Johnson, L.**, Fox-Kemper, B., Pham, H. Sarkar, S., and Li, Q., (2023) A Finite-Time Ensemble Method for Mixed Layer Model Comparison. *Journal of Physical Oceanography*. <https://doi.org/10.1175/JPO-D-22-0107.1>  
·Pham, H. T., S. Sarkar, **Johnson, L.**, B. Fox-Kemper, P. P. Sullivan, and Q. Li, (2023) Multi-scale variability of turbulent mixing during a monsoon intraseasonal oscillation in the bay of bengal: an les study. *Journal of Geophysical Research: Oceans*. 128(1), e2022JC018959.  
·Bodner, A and Fox-Kemper, B and **Johnson, L.** and Van Roekel, L P and McWilliams, J C and Sullivan, P P ,. Dong, J. (2022). Modifying the Mixed Layer Eddy Parameterization to Include Frontogenesis Arrest by Boundary Layer Turbulence. *Journal of Physical Oceanography*.  
·Fox-Kemper, B., **Johnson, L.**, and Qiao., F. (2022) Ocean Mixing, chapter Ocean Near-Surface Layers. Elsevier. 69-94.  
·Orenstein, P., Fox-Kemper, B., **Johnson, L.**, Li, Q., Sane, A. (2021). Evaluating Coupled Climate Model Parameterizations via Skill at Reproducing the Monsoon Intraseasonal Oscillation. *Journal of Climate*, 1-42.  
·**Johnson, L.**, Lee, C.M., D'Asaro, E.A., Wenegrat, J.O., and Thomas, L.N. (2020) Restratification at a California Current upwelling front II: Dynamics. *Journal of Physical Oceanography*, 50 (5), 1455-1472  
·**Johnson, L.**, Lee, C.M., D'Asaro, E.A., Thomas, L.N., and Shcherbina, (2020) A. Restratification at a California Current upwelling front, I: Observations. *Journal of Physical Oceanography*, 50 (5), 1473-1487  
·**Johnson, L.**, Lee, C.M. and D'Asaro, E.A., (2016) Global estimates of lateral springtime restratification. *Journal of Physical Oceanography*, 46(5), pp.1555-1573