

Leah Johnson

Postdoctoral Researcher
Brown University | Providence, RI
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Education

- Ph.D. Oceanography, University of Washington. 2018
- M.S. Applied Mathematics, University of Washington. 2015
- M.S. Oceanography, University of Washington. 2014
- M.S. Geosciences, San Francisco State University. 2010
- B.S. Physics, University of California, Davis. 2004

Research Experience

- Postdoctoral Research Fellow, Brown University 2018-Present
- Research Assistant, University of Washington 2011-2018
- Research Assistant, San Francisco State University 2008-2011
- Research and Evaluation, Exploratorium, San Francisco, CA 2008-2011
- Research Assistant, University of California, Davis 2003-2004

Teaching Experience

- Instructor, Monsoon Workshop. Bangalore, India. 2019
- Teaching Assistant, Integrative Oceans. University of Washington. 2013
- Educator/Scuba Diver, Ocean Inquiry Project. Seattle, WA 2012
- Education Coordinator, California Science Center. Los Angeles, CA 2005-2007
- Astronomy Lab Instructor, University of California, Davis. 2000-2003

Memberships/Committees

- Member, American Geophysical Union 2007-present
- Member, University of Washington Program on Climate Change Graduate Student Steering Committee 2015-2017
- Senator, University of Washington Graduate and Professional Student Senate 2013-2015
- Chair, Graduate Climate Conference Organizing Committee 2013-2014

Expeditions

- RV Sally Ride, Bay of Bengal, India 2019
- RV Revelle, Kuroshio, South China Sea 2017
- RV Atlantis, Davis Straight, Greenland 2015

- RV Thomas G. Thompson, Puget Sound, WA 2012
- One Tree Island Research Station, Great Barrier Reef, Australia 2009
- RV Point Sur, Santa Monica Basin, CA 2008
- RV Point Sur, Monterey Canyon, CA 2007

Select Presentations

- *Lagrangian Evolution of a Submesoscale Front*. 2019. URI Seminar Series. Narragansett, RI. Invited
- *Fronts and Stratification in the Upper Ocean*. 2018. NASA MPOWIR speaker series. JPL, Pasadena, CA. Oral Presentation
- *Fronts and Stratification in the Upper Ocean*. 2018. Brown University seminar. Providence, RI. Oral Presentation
- *Fronts and Stratification in the Upper Ocean*. 2018. Woods Hole Oceanographic Institution PO seminar. Woods Hole, MA. Oral Presentation
- *Fronts and Stratification in the Upper Ocean*. 2017. Scripps Institute of Oceanography CASPO seminar. La Jolla, CA. Oral Presentation
- *Evolution of a Mixed Layer Front*. 2017. AMS 21st Conference on Atmospheric and Oceanic Fluid Dynamics. Portland, Oregon. Oral Presentation
- *Balanced and Unbalanced Vertical Velocity at a Mixed Layer Front*. 2017. Liege Colloquium on Ocean Dynamics, Marine Turbulence Re-visited. Liege, Belgium. Oral Presentation
- *A Meandering Jet in the Kuroshio Extension*. 2016. American Geophysical Union Fall Meeting. San Francisco, CA. Poster
- *Global Estimates of Lateral Springtime Restratification*. 2016. Liege Colloquium on Ocean Dynamics, Submesoscale Processes: Mechanisms, Implications and New Frontiers. Liege, Belgium. Oral Presentation
- *A Stratifying Submesoscale Mixed Layer Front*. 2016. Ocean Sciences Conference. New Orleans, LA. Poster
- *At the Front, Dynamics that Stoke Ocean Ecosystems*. 2015. Town Hall. Seattle, WA. Oral Presentation
- *The Role of Submesoscale Instabilities on Springtime Mixed Layer Stratification and Primary Productivity*. 2014. Ocean Sciences Conference. Honolulu, HI. Oral Presentation
- *Observational Evidence of the Abundance of Mixed Layer Eddy Induced Stratification*. 2013. Graduate Climate Conference, Woods Hole, MA. Oral Presentation

Workshops

- Physical Oceanography Dissertation Symposium X. 2018

- U.S. CLIVAR. Ocean Carbon Hotspots Workshop: Biophysical drivers of carbon uptake in western boundary current regions. 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. 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. 2013
- NCAR Advanced Study Program Summer Colloquium. *Carbon Connections in the Earth System*. 2013
- NCAR Advanced Study Program Workshop. Key Uncertainties in the Global Carbon-Cycle: Perspectives across terrestrial and ocean ecosystems. 2013

Publications - Submitted and In Prep

- Johnson, L., Fox-Kemper, B., and Li, Q., Modeling the boundary layer response to monsoon forcing. *In Prep*
- Johnson, L., Lee, C.M. and D'Asaro, E.A., Wenegrat, J.O., Thomas, L.N. Restratification at a California Current upwelling front II: Dynamics. *In Review*
- Johnson, L., Lee, C.M. and D'Asaro, E.A., Thomas, L.N., Shcherbina, A. Restratification at a California Current upwelling front, I: Observations. *In Review*

Publications - Published

- 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
- Pilcher, D.J., Brody, S.R., Johnson, L. and Bronselaer, B., (2015) Assessing the abilities of CMIP5 models to represent the seasonal cycle of surface ocean pCO₂. *Journal of Geophysical Research: Oceans*, 120(7), pp.4625-4637.
- Komada T., Burdige D. J., Crispo S. M., Druffel E. R. M., Griffin S., and Johnson L. (2013) Dissolved organic carbon dynamics in anaerobic sediments of the Santa Monica Basin. *Geochimica et Cosmochimica Acta* 110, pp.253-273
- Silverman, J., D. I. Kline, L. Johnson, T. Rivlin, K. Schneider, J. Erez, B. Lazar, and K. Caldeira. (2012) Carbon turnover rates in the One Tree Island reef: A 40-year perspective. *Journal of Geophysical Research* 117.
- Komada, T., Polly, J. A., & Johnson, L. (2012). Transformations of carbon in anoxic marine sediments: Implications from $\Delta^{14}\text{C}$ and $\delta^{13}\text{C}$ signatures. *Limnology Oceanography*, 57(2), 567-581.
- Johnson, L., T. Komada. (2011) A Thermal sulfate reduction method for determining ¹⁴C abundances in marine dissolved organic carbon. *Limnology and Oceanography Methods* 9:485-498
- Ferenc, D., A. Chang, L. Johnson, D. Kranich, A. Laille and E. Lorenz, (2006). A new method for vacuum sealing of flat-panel photosensors. *Nuclear Instruments and Methods*, 205-208