Una Kim Miller

 $Columbia\ University \cdot Lamont-Doherty\ Earth\ Observatory \cdot umiller\\ @ldeo.columbia.edu \cdot \\ \underline{https://unamiller.github.io/}$

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2019-	PhD Candidate, Ocean and Climate Physics Columbia University, New York, New York Advisor: Christopher J. Zappa
2016-2018	M.A., Ocean and Climate Physics Columbia University, New York, New York Advisor: Christopher J. Zappa
2011-2015	B.S., Oceanography, University of Washington, Seattle, Washington Advisor: H. Paul Johnson

Awards

2016 Columbia University Dean's Fellow

Research Experience

2016-2019	Master's Thesis Research, Department of Ocean and Climate Physics, Columbia University Applicability of Monin-Obukhov similarity scaling of turbulence kinetic energy dissipation in the surface ocean boundary layer
2014-2015	Undergraduate Thesis Research, Department of Oceanography, University of Washington Characterizing the controls on surface alkalinity in Nootka Sound, B.C.
2012-2016	Research Assistant, Department of Oceanography, University of Washington

Publications and Presentations

- Wurl, O., Bird, K., Cunliffe, M., Landing, W. M., Miller, U., Mustaffa, N. I. H., et al. (2018). Warming and inhibition of salinization at the ocean's surface by cyanobacteria. Geophysical Research Letters, 45, 4230–4237. https://doi.org/10.1029/2018GL077946
- Johnson, H. P., U. K. Miller, M. S. Salmi, and E. A. Solomon (2015), Analysis of bubble plume distributions to evaluate methane hydrate decomposition on the continental slope, *Geochem. Geophys. Geosyst.*, 16, 3825–3839, doi:10.1002/2015GC005955.
- Hautala, S. L., E. A. Solomon, H. P. Johnson, R. N. Harris, and U. K. Miller (2014), Dissociation of Cascadia margin gas hydrates in response to contemporary ocean warming, *Geophys. Res. Lett.*, 41, 8486–8494, doi:10.1002/2014GL061606.

Miller, U. K. (2015), Analysis of Bubble Plume Distributions to Evaluate Methane Hydrate Decomposition on the Continental Slope. *American Geophysical Union Fall Meeting*. Poster. San Francisco, CA.

Teaching Experience

2018	Teaching Assistant, "Introduction of Physical Oceanography", Department of Earth and Environmental Sciences, Columbia University
2017	Teaching Assistant, "Dynamics of Climate Variability and Change", Department of Earth and Environmental Sciences, Columbia University
2015	Teaching Assistant, "Oceanography of the Pacific Northwest", Department of Oceanography, University of Washington

Service

2018-2020	New Student Chair, Graduate Student Committee
2018-2020	Graduate Student Member, Lamont-Doherty Colloquium Committee
2016-	Volunteer, Classroom Health Chair, Girls Who Code at Columbia University
2016-	Volunteer, Girls Science Day at Columbia University Volunteer, Lamont-Doherty Open House

Research Cruise Experience

2018	R/V Araon, Ross Sea, Antarctica, February-March, 6 weeks
2014	<i>R/V Thompson,</i> Nootka Sound, British Columbia, December, 10 days <i>R/V Thompson,</i> Washington and Oregon coasts, October, 2 weeks <i>R/V Thompson,</i> Washington and Oregon coasts, June-July, 2 weeks
2013	<i>R/V Atlantis,</i> Washington and Oregon coasts, August, 1 month <i>R/V Barnes,</i> Puget Sound, April, 1 day