Una Kim Miller

Columbia University · Lamont-Doherty Earth Observatory · umiller@ldeo.columbia.edu · https://unamiller.github.io/

Education

- 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*

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 water alkalinity in Nootka Sound, B.C.
- 2012-2015 Undergraduate 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

Professional and Volunteer Service

2019-2020	Coordinator, Ocean & Climate Physics Divisional Seminar Committee
2018-2020	Coordinator, Lamont-Doherty Earth Observatory Colloquium Committee
2018-2019	New Student Chair, Graduate Student Committee
2016-	Volunteer, weekly, Classroom Health Chair, Girls Who Code at Columbia University
2016-	Volunteer, annually, Girls Science Day at Columbia University
2016-	Volunteer, annually, Lamont-Doherty Earth Observatory 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