

# KRISTIN C. BURKHOLDER, PH.D.

## EDUCATION

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- 2002 – 2006      B.S. Chemistry; Bucknell University
- 2006 – 2011      Ph.D. Physical Oceanography; Nicholas School of the Environment, Duke University. Dissertation: *Subtropical to Subpolar Lagrangian Pathways in the North Atlantic and Their Impact on High Latitude Property Fields.*

## RESEARCH AND PROFESSIONAL INTERESTS

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Large-scale ocean circulation; meridional overturning circulation and its variability; environmental education; interface of science and policy; women in science; climate change.

## AWARDS, FELLOWSHIPS AND HONORS

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- 2009, 2010      Duke University Graduate School Conference Travel Grant
- 2008              National Science Foundation Graduate Research Fellowship Program, Honorable Mention
- 2006              Phi Beta Kappa, Bucknell University.
- 2002-2006      Dow Chemical Company Scholarship
- 2005              American Chemical Society Undergraduate Award in Analytical Chemistry
- 2003              President's Award for Distinguished Academic Achievement, Bucknell University.

## EMPLOYMENT

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- 2012 – present    Postdoctoral Teaching Fellow, Environmental Studies Program, Stonehill College, Easton, MA.
- Spring 2012      Visiting Lecturer, Environmental Studies Program, Wellesley University, Wellesley, MA.
- Spring 2012      Adjunct Assistant Professor, Department of Natural and Applied Sciences, Bentley University, Waltham, MA.
- 2006 – 2011      Research and Teaching Assistant, Division of Earth and Ocean Sciences, Nicholas School of the Environment, Duke University, Durham, NC.

## PUBLICATIONS

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1. Burkholder, K. C. and M. S. Lozier (2011), Subtropical to subpolar pathways in the North Atlantic: Deductions from Lagrangian trajectories, *J. Geophys. Res.*, 116, C07017, doi:10.1029/2010JC006697.
2. Burkholder, K. C. and M. S. Lozier (2011), Mid-depth Lagrangian pathways in the North Atlantic and their impact on the salinity of the eastern subpolar gyre. *Deep Sea Research I*, doi:10.1016/j.dsr.2011.08.007

## ABSTRACTS

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1. Burkholder, K.C. and M. S. Lozier, 2012. Lagrangian pathways connecting the subtropical and subpolar gyres in the North Atlantic. *American Geophysical Union Fall Meeting*, San Francisco, United States.
2. Lozier, M.S., S. F. Gary, K.C. Burkholder, A. S. Bower and C.W. Böning, 2011. Lagrangian pathways connecting the subtropical and subpolar gyres in the North Atlantic. *European Geophysical Union*, Vienna, Austria.
3. Burkholder, K.C. and M. S. Lozier, 2011. Northward Transport in the North Atlantic: How Do Warm Waters Reach High Latitudes? *National Council for Science and the Environment (NCSE) National Conference on Science, Policy and the Environment: Our Changing Oceans*. Washington, DC.
4. Burkholder, K. C. and M. S. Lozier (2010) Spatial and temporal variability in subtropical to subpolar gyre exchange in the North Atlantic. *2010 U.S. Atlantic Meridional Overturning Circulation Annual Meeting*, Miami FL
5. Burkholder, K. C. and M. S. Lozier (2010) Wind induced variability in subtropical to subpolar gyre exchange in the North Atlantic. *American Geophysical Union Ocean Sciences Meeting*, Portland, OR
6. Burkholder, K. C. and M. S. Lozier (2009) The impact of gyre dynamics on the mid-depth salinity signature of the eastern North Atlantic. *European Geosciences Union General Assembly*, Vienna, Austria.
7. Cashman, K. E. and M. S. Lozier (2008) Variability in the northward penetration of Mediterranean Overflow Water *American Geophysical Union Ocean Sciences Meeting*, Orlando, FL

## CRUISES AND SEA EXPERIENCE

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| 2007 | CLIMODE Research Cruise: Woods Hole, MA to Saint George's, Bermuda. |
| 2005 | SEA Education Association: Honolulu Hawaii to San Francisco, CA.    |

## PROFESSIONAL SOCIETIES

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| 2007 – present | American Geophysical Union   |
| 2009 – 2011    | Mentoring Physical Oceanography Women to Increase Retention (MPOWIR) |

## INVITED TALKS

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April, 2013

Climate Change and Boston: Why Should You Care? *Sigma Pi Alpha Sorority Regional Meeting*, Danvers, MA.