

KRISTIN C. BURKHOLDER, PH.D.

EDUCATION

- 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

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

- 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

- 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

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

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

April, 2013

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