

Chelsea Clifford

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Education

Ph.D., Environment, 2018. Nicholas School of the Environment, Duke University, Durham, NC.

Certificate of College Teaching, Duke Graduate School, Durham, NC.

B.A., Biology, 2010. Carleton College. Northfield, Minnesota.

Professional Appointments

PhD Candidate, Duke University Nicholas School of the Environment, Durham, NC.	2016-2018
Teaching Assistant, Duke University Nicholas School of the Environment, Durham, NC.	2014-2016
PhD Student, Duke University Nicholas School of the Environment, Durham, NC.	2013-2016
Data Analyst, Chesapeake Environmental Communications, Gloucester, VA.	2012-2013
Communications Assistant, Chesapeake Environmental Communications, Gloucester, VA.	2011-2012
Monitoring Assistant, The Nature Conservancy, Charlottesville, VA.	2011
Research Assistant III, MacArthur Agro-Ecology Research Center, Lake Placid, FL.	2011
Research Assistant II, MacArthur Agro-Ecology Research Center, Lake Placid, FL.	2010
Teaching Assistant, Carleton College Biology, Northfield, MN.	2010
Cole Student Naturalist, Carleton College Arboretum, Northfield, MN.	2008-2010
Seasonal Interpretive Ranger, Virginia Department of Conservation and Recreation, Surry, VA.	2009
Lab Aide, White Mountain Research Center, Bishop, CA.	2008

Publications/Presentations

<u>Clifford, C.C.</u> Heffernan, J.B. "North Carolina Coastal Plain ditch types support distinct hydrophytic communities." (<i>in prep.</i>)	2018
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Clifford, C.C., Holmquist, J.G., Voss, K., Schmidt Gengenbach, J., and Heffernan, J.B. “Urban ditches and natural creeks house similar invertebrate communities in a minimally developed California watershed.” (*in prep.*) 2018

Clifford, C.C. Heffernan, J.B. “Artificial Aquatic Systems.” MDPI. *Water* 2018, 10(8), 1096; <https://doi.org/10.3390/w10081096>. Available online: <http://www.mdpi.com/2073-4441/10/8/1096> 2018

Clifford, C.C. Heffernan, J.B. “Similar Processes Explain Water Quality in Artificial and Natural U.S. Lakes. Society for Freshwater Science Annual Meeting. Society for Freshwater Science. Detroit, MI. 24 May 2018

Palta, M., McPhillips, L., Bienz, C., Clifford, C., Okoro, M., Jaeger, K. “The Influence of Hydrologic Connectivity on Ecosystem Service Provision and Tradeoffs in Aquatic Systems.” *Journal of the American Water Resources Association.* (*in review.*) 2018

Clifford, C.C. Heffernan, J.B. “North Carolina Coastal Plain ditch types support distinct hydrophytic communities.” Society for Freshwater Science Annual Meeting. Society for Freshwater Science. Raleigh, NC. 8 Jun. 2017

Clifford, C.C. Heffernan, J.B. “Cultural Biases Limit Ecosystem Services Provided by Ditches and Connected Ecosystems.” 2017 AWRA Spring Specialty Conference: Connecting the Dots: The Emerging Science of Aquatic System Connectivity. American Water Resources Association. Snowbird, UT. 2 May 2017

Clifford, C.C., Felson, A.J. “Introduction to the Earth Stewardship Initiative Demonstration Projects.” Novel Ecosystems in the Anthropocene. Ecological Society of America. Fort Lauderdale, FL. 12 Aug. 2016

Clifford, C.C., J.B. Heffernan. “What drives wetland structure in ditches?” Novel Ecosystems in the Anthropocene. Ecological Society of America. Fort Lauderdale, FL. 10 Aug. 2016

Clifford, C.C., J.B. Heffernan. “Ditch types host different plant communities with similar wetland indicator statuses.” 2016

- North Carolina Wetlands Symposium. Duke University. Durham, NC. 4 Mar. 2016
- Freshwater in the North Carolina Coastal Plain: Understanding and Preparing for 21st Century Challenges. North Carolina State University Water Resources Research Institute. New Bern, NC. 16 Feb. 2016

Clifford, C.C. “Anthropogenic Ecosystems Have Conservation Potential.” Joint Ecology / Marine Lab Symposium. Beaufort, NC. 14 Nov. 2015

Clifford, C.C., J.G. Holmquist, J. Schmidt Gengenbach, J.B. Heffernan. “Ecosystem artificiality does not impact aquatic communities.” Ecological Science at the Frontier. Ecological Society of America. Baltimore, MD. 13 Aug. 2015

Clifford, C.C., J. B. Heffernan. "Artificial Aquatic Systems." Connections in Ecology. Duke University. Beaufort, NC.	17 Apr. 2015
<u>Clifford, C.C.</u> , J.G. Holmquist, J. Schmidt Gengenbach, J.B. Heffernan. "Artificial vs. natural streams: an invertebrate case study from Bishop, California." Poster.	2014
o Joint Aquatic Sciences Meeting. Portland, OR.	May 22, 2014
o Ecology Across Scales. Duke University. Durham, NC.	Mar. 21, 2014
o Water Resources Research Institute Annual Conference. NCSU. Raleigh, NC.	Mar. 19, 2014
<u>Clifford, C.C.</u> , E.H. Boughton, P.J. Bohlen, P. Quintana-Ascencio, H. Swain. "Florida ranch wetland plant community response to increased water." Poster. Southeastern Ecology and Evolution Conference. Auburn University.	Mar. 27, 2011
Kohman, M.M., C.W. Fraisse, <u>C.C. Clifford</u> , P.J. Bohlen. "The Carbon Footprint for Florida Beef Cattle Production Systems: A Case Study with Buck Island Ranch." <i>The Florida Cattleman</i> .	March 2011

Honors

Anthropocene Farm Fellowship, The Kenan Institute for Ethics	2018
Duke University Wetland Center Graduate Student Research Support Grant	2017
Earth Stewardship Research Fellowship, Earth Stewardship Initiative	2014
Graduate Research Fellowship, National Science Foundation	2013
Kolenkow-Reitz Fellowship, Carleton College	2009-2010

Service

Scientist, Science Research Education Networking Triangle	2014-present
Social Media Editor, Duke Women in Science and Engineering	2014-present
Sci-Fi Book Club Coordinator, Duke Women in Science and Engineering	2016-2018
Scientist, Durham County Environmental Field Day	2017
Judge, North Carolina Student Academy of Sciences	2013-2017
Environment Representative, Nicholas PhD Advocacy Council	2016-2017
Volunteer steward, Friends of the Mountain-to-Sea Trail	2014-2016
STEM Days volunteer, Museum of Life and Science	2016
Duke STEM/MAT network	2016
Founder, Duke Nature and People	2015-2016

Coordinator, Nicholas School Graduate Afternoon Seminar	2015-2016
Scientist, NC Science Festival Invite-a-Scientist	2014-2015
Coordinator, Duke River Center Chalk Talks	Spring 2015
Volunteer steward, Ellerbe Creek Watershed Association	2013-2015
Mentor, Durham Women and Math	2013-2014
Committee Member, Gloucester Blueways	2012-2013
Naturalist, Kids Kayak and Conservation Camp	2012-2013
Naturalist, Beaverdam Parks Spring Festival	2013
Geologist, Girl Scout Math and Science Day	2010
Volunteer steward, Carleton College Arbor	2006-2009
Volunteer trail maintainer, California Backcountry Horsemen	2008

Certifications

Virginia DGIF Boater Education	2012
Virginia Master Naturalist	2012
PADI Open Water Diver	2010

Affiliations/Memberships

Society for Freshwater Science	2017-present
American Geophysical Union	2017
American Water Resources Association	2017
Ecological Society of America	2014-2016
Graduate Women in Science (Rho Tau)	2014-2016
North Carolina Association of Water Resources	2014-2016
Sigma Xi	2010-2016