Nicole Christine Ramberg-Pihl

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Ecology and Environmental Science, Climate Change Institute
The University of Maine
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Education

In Progress	Ph.D. Ecology and Environmental Science University of Maine (Orono, ME)
2009-2012	M.S. in Biology Plymouth State University (Plymouth, NH)
2006-2009	Bachelor of Science in Environmental Biology Plymouth State University (Plymouth, NH)

Academic Honors/Awards

2015	IGERT Fellow
2009-2011	Graduate Assistantship
2009	Academic Achievement of 3.5 GPA or higher
2008-2009	Research Assistantship, Chabot Lab
2008	Hunter Baney Barton Memorial Scholarship
2007	Spring/Fall Dean's List, Plymouth State University

Positions

2010-2015	Biological Sciences II Labs (BI-1120) Adjunct Faculty, Department of Biological Sciences, Plymouth State University.
2012- 2014	First Year Seminar (IS-IIII.35,36) Adjunct Faculty, Department of Biological Sciences, Plymouth State University.
2014	Lake Tarleton Lake Host, Paid Lake Host Position, New Hampshire Lakes Association & Department of Environmental Services (NH).

2013 Core Concepts: Ecology, Evolution, & Behavior (EEB) (BIDI-1220) Adjunct Faculty, Department of Biological Sciences, Plymouth State University.

2013 Human Biology II Labs (BIDI-2010) Adjunct Faculty, Department of Biological Sciences, Plymouth State University.

2012 Human Biology I Labs (BIDI-2020) Adjunct Faculty, Department of Biological Sciences, Plymouth State University.

2011-2012 Lab Assistant in Microbiology for Nursing (BI-2340) to Dr. Doug Sanders, Department of Biological Sciences, Plymouth State University.

2011-2012 Teaching Assistant in Human Biology I & II (BIDI-2010 & BIDI-2020) to Karen Franke and Amy Ueland, Department of Biological Sciences, Plymouth State University.

2011 Office Assistant in Biological Sciences and Environmental Science and Policy Administration Office, to Shaughn Bolton, Department of Biological Sciences, Plymouth State University.

2009-2011 Teaching Assistant in Freshwater Ecology (BI-3260) to Dr. Kerry Yurewicz, Department of Biological Sciences, Plymouth State University.

2010 Teaching Assistant in Invertebrate Zoology (BI-2030) to Dr. Kerry Yurewicz, Department of Biological Sciences, Plymouth State University.

2009-2010 General Biology I (BIDI-1010) Lab Instructor, Department of Biological Sciences, Plymouth State University.

2007-2009 Research Assistant to Dr. Christopher Chabot, Department of Biological Sciences, Plymouth State University.

2007 Teaching Assistant in Animal Behavior (BI-4760) to Dr. Christopher Chabot, Department of Biological Sciences, Plymouth State University.

Research Experience

2012-2014 Assisting Loon Preservation Committee (LPC) in trapping crayfish for the purpose of testing contaminant levels in Squam Lake and other central New Hampshire bodies of water as part of the Squam Loon Initiative. The Squam Loon Initiative seeks to better understand the loss of nesting pairs and nest failures including those stemming from non-viable eggs. One avenue of study is through the possible transfer of contaminants from crayfish and other prey to loons and subsequently loon eggs.

2008-2014 Freshwater behavioral ecology / predator-prey interaction field and lab work, including sampling and trapping across central New Hampshire. Response of Northern Crayfish (*Orconectes virilis*) to conspecific alarm cues, Smallmouth Bass (*Micropterus dolomieu*) visual and chemical predatory cues, and microscope imaging of collected invertebrates. Graduate advisor & current collaborator: Dr. Kerry Yurewicz, Plymouth State University.

2008-2009 Independent Study: Do Circatidal or Circalunidian Clocks Control Locomotion in the American Horseshoe Crab? Advisor: Dr. Christopher Chabot. Sponsor, National Science Foundation. Plymouth State University.

2007-2009 Multiple experiments concerning aspects of animal behavior, photoperiod, endogenous clocks (circadian, circalunidian, and circatidal), locomotion, PER, heart rate in correlation with tides, and tidal activity studied on *Limulus polyphemus*, the American Horseshoe Crab. Also, maintained website promoting this research. Advisor: Dr. Christopher Chabot. Sponsor, National Science Foundation. Plymouth State University.

Applications/Programs:

ClockLab Suite: Data Analysis and Collection for Circadian Biology, Actimetrics

Geographic Information System (GIS), ESRI: ArcGIS® 9 Arc Map ™ version 9.3.1.

MATLAB® version 7.0.4.365.SP2, MATLAB

SPSS: IBM® SPSS® Statistics version 20

Professional Presentations

Hollenbeck, A., T. Grade, N Ramberg-Pihl,. H. Vogel, and K. Yurewicz. 2014. Can spatial variation in contaminants found in northern crayfish provide insight into the loon decline on Squam Lake? Poster Presentation. Plymouth State University Student Showcase of Excellence (Plymouth, NH).

Ramberg-Pihl Nicole, Yurewicz Kerry. 2011. The Influence of predatory Smallmouth Bass on Northern Crayfish: Field distribution patterns and laboratory behavioral responses. Poster Presentation. Society for Freshwater Science (SFS), *Formally North American Benthological Society (NABS).* Annual Meeting (Providence, RI).

Ramberg-Pihl NC, Watson WH, Chabot CC. 2009. Do circatidal or circalunidian clocks

control locomotor rhythms in the American horseshoe crab? Poster Presentation. Society for Integrative and Comparative Biology (SICB) Annual Meeting (Boston, MA).

Ramberg-Pihl NC, Banerjee A, Garber S, and Yurewicz K. 2008. Does the Introduction of a Predator Cue Have an Effect on Locomotion in Crayfish? Poster Presentation. 7th Annual New England Environmental Research Symposium (Bridgewater, MA).

Publications

Chabot Chris, Watson Windsor, and Ramberg-Pihl Nicole. *Evidence for circalunidian clocks controlling locomotion in the American horseshoe crab, Limulus Polyphemus.* – In Review

Ramberg-Pihl Nicole, Yurewicz Kerry, and Boucher Thomas. *Factors Influencing the Distribution Patterns of Orconectes virilis in lakes in Central New Hampshire*. – Currently in prep