## Heather Ann Arnett

Focus	Interests in ecological effects on population dynamics using evolution and plasticity to explore invasion and conservation in coordination with teaching and outreach.				
	09/2010-Current	University of Maine Dr. Michael Kinnison	Orono, ME		
Research	Graduate Research A	ssistantship			
Experience	Chase Distinguished Research Assistantship				
	Eco-evolutionary dynamics and phenotypic plasticity studies on an invasive fish species. A focus on the role of sex and transgenerational effects on plastic traits.  Collaboration with Duke University and University of California Santa-Cruz				
	10/2010-11/2012	University of Maine/ Bangor Water District Dr. Michael Kinnison	Orono, ME		
	Research Project Lea	der, Field Aid			
	Studying the popul	ation size and growth of the Arctic Charr via methods	a mark and recapture		
	07/2008-05/2010	University of Maine/USGS/NPS Dr. Jasmine Saros	Orono, ME		
	Graduate Research Assistantship				
	Nutrient loading on	lake ecology using paleoecology and trans	fer function modeling		
	11/2007-05/2008	University of Wisconsin-La Crosse Dr. Gregory Sandland	La Crosse, WI		
	Undergraduate Resea	arch Student			
	Inbreeding depression	on snail species responsible for parasite sprea	ad in the Mississippi River		
	06/2007-08/2007	Mayo Clinic Biochemical Genetics Laboratory	Rochester, MN		
	Undergraduate Rese	arch Intern			
	Genetics te	sting and microbiology work using human t	issue samples		
	Arnett, H. A., and M.	T. Kinnison. Parallel and Unique Pattern	ns of Predator-Induced		
	Phenotypic Plas	ticity in Two Species and Sexes of Mosq	uitofish. In Review		
Publications	Fryxell, D. C., H. A. Ar	nett, T. M. Apgar, M. T. Kinnison, and E	. P. Palkovacs. 2015.		
	Sex ratio variation shapes the ecological effects of a globally introduced				
	freshwater fish.	Proceedings of the Royal Society B: Bio	logical Sciences online.		
	Arnett, H. A., J. E. Saros, and M. Alisa Mast. 2012. A caveat regarding diatom- inferred nitrogen concentrations in oligotrophic lakes. Journal of Paleolimnology 47:277–291.				
	Saros, J. E., K. C. Rose, D. W. Clow, V. C. Stephens, A. B. Nurse, H. A. Arnett, J. R. Stone, C. E. Williamson, and A. P. Wolfe. 2010. Melting Alpine glaciers enrich high-elevation lakes with reactive nitrogen. Environmental science & technology 44:4891–6.				

	01/2015	Freshwater Science Symposium	Orono, ME	
	Poster Presentation			
Presentations	<ul> <li>"Shared and Unique Plastic Responses to Predators in Two Species of Mosquitofish"</li> <li>Research presented included completed doctoral research on predator induced plastic changes in fishes ranging from physical to behavioral traits</li> <li>Overarching theme of ecosystem function and foraging tradeoffs affecting ecological processes</li> </ul>			
	08/2014	American Fisheries Society	Quebec City, Quebe Canada	
	Poster Presentation			
	<ul> <li>"Ecological Implications of Sex Ratio Variation in Mosquitofish"</li> <li>Research presented included completed doctoral research on predator effects driving sex ratio and density</li> <li>Overarching theme of ecosystem function and ecological and evolutionary feedbacks on the environment</li> </ul>			
	02/2013	Women in Academia	Bangor, ME	
	<ul> <li>Poster Presentation</li> <li>"The Role of Predator Exposure in Phenotypic Plasticity of Foraging Traits of Prey"</li> <li>Research presented included predictive doctoral research on plastic responses to predation using sex and size as a framework</li> <li>Overarching theme of ecological processes</li> </ul>			
Grants and	Spring 2015 Spring 2014 Spring & Fall 2013	Graduate School Government Individual Grants	University of Maine	
Funding	Research Grants			
	<ul><li>Biannual grant cycle</li><li>Funds used for research</li></ul>	for continuing programs of study for moderate funds arch or academic travel purposes, includin , and conference travel costs	g animal maintenance,	
	09/2013-05/2014	Chase Distinguished Research Assistantship	University of Maine	
	Research Fellowship			
	<ul> <li>Campus wide fellows</li> </ul>	hip for established graduate students		
	<ul> <li>Only one nominatio</li> <li>Fellowship covered son graduate program</li> </ul>	tipend for one academic year and tuition for	one calendar year to wo	
	9/2014-8/2015	Ecology and Environmental Sciences Graduate Research Awards	University of Main	

## Research Grant

- Program wide research awards
- One to three awards per cycle
- Funds used to hire undergraduate research aid to increase mentorship experience and increase data collection and experimental productivity in the program of study

**Graduate Research Awards** 

	09/2010-Current	University of Maine	Orono, ME	
	Teaching Assistant			
	Teacher Assistant of the Yo	ear: Nomination 2015		
Teaching and Educational Development Experience	<ul> <li>Vertebrate Biology Laboratory: 1 credit laboratory focused on application and synthesis at the 300 level. 4 years of experience. Course includes lectures, laboratory practicals, field trip, and discussion.</li> <li>Comparative Human Anatomy Laboratory: Part of a 4 credit course at the 300 level focused on anatomical exploration of humans with contracts to cats and fish. Course includes microscope work and dissection of cat, sheep, and pig structures. Course content and specimen were co-developed and designed to fit a new human focused curriculum.</li> <li>Anatomy and Physiology Laboratory: 1 credit laboratory course focused on hands-on experience to synthesize material at the 200 level. 1 year experience. Course includes talks, exams, quizzes, short essays, dissections, and human physiology monitoring.</li> </ul>			
	05/2015	University of Maine	Orono, ME	
	Guest Lecturer  Comparative Human Anatomy Lecture: Week long guest lecture for part of a 4 credit 300 level course.			
	05/2013-01/2014	University of Maine School of Biology and Ecology	Orono, ME	
	Seminar Coordinator			
	<ul> <li>Contacting, scheduling, and budgeting speakers for weekly departmental seminars</li> <li>Initiated a symposium "Women in Science and Academia"</li> <li>Collaborated with several campus departments for speakers, seminars, and the symposium</li> </ul>			
	10/2010-11/2012	Bangor Water District	Orono, ME	
	Research Presenter		,	
	<ul> <li>Designing and presenting</li> </ul>	ng aquatic ecology, fish ecology, and mark- y through secondary school outreach	recapture research	
	<b>09/2010</b> - <i>05/2016</i>	University of Maine	Orono, ME	
Education	<ul><li>Ecology and Environme</li><li>3.845 GPA</li></ul>	ental Ecology (School of Biology and Ecology	ı) Doctorate of Philosophy	
	09/2011-Current	University of Maine	Orono, ME	
	Seminars on instruction and teaching methods			
	<ul> <li>Scaffolding undergraduate peer facilitation (The Maine Learning Assistant Program)</li> <li>Issues related to grades and grading (Maine Center for Research in STEM through Physical Sciences Partnership)</li> </ul>			
	Research in STEM)	s wanted to know about laboratory learning		
	09/2008-05/2010	ive group work (Maine Center for Researd  University of Maine	Orono, ME	
		•		
	<ul> <li>Ecology and Environmental Ecology (School of Biology and Ecology) Master's of Science</li> <li>Affiliation with the Climate Change Institute (CCI)</li> <li>3.835 GPA</li> </ul>			
	09/2004-05/2008	University of Wisconsin-La Crosse	La Crosse, WI	
	<ul><li>Bachelor's of Science ; E</li><li>3.60 GPA</li></ul>	Biology Major, Chemistry Minor, University	and Departmental honors	

	09/2010-current	University of Maine Doctoral Advisor	Orono, ME
References	Michael T. Kinnison		
	<ul><li>michael.kinnison@</li><li>207-581-2575</li></ul>	umit.maine.edu	
	■ 313A Murray Hall,	Orono, ME 04469 USA	
	9/2010-5/2016 University of Maine		0 145
	9/2010-3/2010	<b>Teaching Advisor and Coordinator</b>	Orono, ME
	Lynn Atkins		
	<ul><li>lynn.atkins@umit.r</li><li>207-581-3084</li></ul>	maine.edu	
	<ul> <li>207 Murray Hall, Orono, ME 04469 USA</li> </ul>		
	11/2010	University of Maine Doctoral Committee	Orono, ME
	Brian McGill		
	<ul><li>brian.mcgill@mai</li><li>207-581-2680</li></ul>		
	303 Deering Hall, Orono, ME 04469 USA		
	07/2008-07/2010	University of Maine Master's Advisor	Orono, ME
	Jasmine Saros		
	<ul><li>jasmine.saros@m</li><li>207-581-2112</li></ul>		
	<ul> <li>137 Sawyer Environmental Sciences Center, Orono, ME 04469 USA</li> </ul>		USA
	09/2015-12/2015	University of Maine Teaching Advisor and Coordinator	Orono, ME
	Molly MacLean		
	<ul><li>molly.maclean@n</li><li>207-581-2568</li></ul>	naine.edu	

■ 301A Murray Hall, Orono, ME 04469 USA