Katherine Holmes

Education	
PhD Student in Ecology and Evolutionary Biology Cornell University, Ithaca, NY	2015 - Current
Bachelor of Science in Zoology, Bachelor of Arts in English University of Florida, Gainesville, FL. Overall GPA: 3.70 Thesis Title: Social and vegetative environments determine habitat use in the Cactus Bug (<i>Chelinidea vittiger</i>).	2012
Semester Study Abroad University of Nottingham, Nottingham, England	2010
Research Experience	
 Project Manager, Fletcher Lab, Ordway-Swisher Biological Station, University of Florida Planned and conducted a large-scale mark-recap field experiment with Cactus Bugs Trained and supervised 10 undergraduate students 	2013-2015
 Intern, Smithsonian Tropical Research Institute, Panama Designed a research project on Barro Colorado Island with Dr. William Wcislo, testing Trachymyrmex cornetzi use of mycelia in brood care 	Aug-Nov 2013
 Project Supervisor, Miller Lab, University of Florida Helped design and coordinate a greenhouse experiment on interspecific mating behavior and parasitism, and supervised 5 undergraduates 	April-June 2013
 Field Research Technician, University of St. Andrews, Scotland Helped Dr. Nathan Bailey collect crickets from Sydney to Cairns in Australia in a study of reproductive isolation 	Mar-April 2013
 Field Research Technician, The Guppy Project, Trinidad Hiked to streams, captured, and processed marked fish in a long-term field experiment 	Sept-Dec 2012
 Lab Research Technician, Miller Lab, University of Florida Evaluated behavior and husbandry records to resolve inconsistencies in data for over 4,000 individual insects 	2012 & 2013
 Undergraduate Volunteer, Miller Lab, University of Florida Assisted in insect care in two genotype-by-environment experiments, and organized preservation of all insects Planned and led an outreach event for high school visitors 	2010 – 2012
 University of Florida Honors Intern, Everglades National Park Collected, identified, and processed lichen samples, and revised a database for lichen species identification. 	June – Aug 2009
 Volunteer, University of Florida Tropical Research and Education Center Assisted in field work and processed samples in the Soil and Water Science Laboratory 	July - Aug 2007

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Publications
Miller, C.W., J. Hamel, K. D. Holmes, W.L. Helmey Hartman, and D. Lopatto (2013). Expanding your
research team: learning gains when a laboratory partners with a classroom. Bioscience 63: 754-762.

Holmes, K. D., C. W. Miller, and J. A. Hamel. (2013). Social and Vegetative Environments Determine Habitat Use in the Cactus Bug (Chelinidea vittiger). University of Florida Journal of Undergraduate Research 14:1–7. PDF

Research 14.1–7. 1101	
Teaching	
Co-instructor in "Morphometrics," <i>University of Florida</i> One of five co-instructors in a research experience-based undergraduate course	Spring 2012
Certificate: "The Practice of Inclusive Teaching in STEM" workshop Cornell Center for Teaching Excellence	Spring 2016
Presentations	
Ecology and Evolutionary Biology Symposium, Cornell University Talk: "Places to go, cactus to eat: how cactus bugs move through a patchy landscape"	Jan 2015
Society for the study of Evolution, Annual meeting, Raleigh, North Carolina Talk: "Symbiotic partnership in brood protection: use of mycelial cover in a fungusfarming ant" YouTube	June 2014
ENY 3005 Principles of Entomology, University of Florida Talks: Guest lectures on how to engage in research as an undergraduate	Jan & Nov 2013
University of Florida Teaching Enhancement Symposium Talk: "Bringing research into the undergraduate classroom"	Aug 2012
Society for the study of Evolution, Animal Behavior Society, and Society for Integrative and Comparative Biology. Poster: "The relationship between vegetation structure and social group composition in the cactus bug, <i>Chelinidea vittiger</i> "	Jan, June, and July 2012
Volunteer Experience	
 Volunteer, Bug Fair Presented 7th grade students with insects and explained natural history 	June 2016
Volunteer, Expanding Your HorizonsExplained how scientists use phylogenies to understand species to middle school girls	
Volunteer, Cornell InsectapaloozaExplained plant-insect interactions to young children, took tickets and directed guests	Oct 2015
Active Member, Circle K International, University of Florida	2009 – 2012
Volunteered over 20 hours each semester in a Kiwanis service organization Volunteer Decent Missis Science Museum	Jun-Aug
 Volunteer Docent, Miami Science Museum Explained exhibits to large groups of K-12 students 	2009
 Intern, DuMond Conservancy, Monkey Jungle, Miami, FL Coordinated primate care and wrote for Conservancy newsletter and science poster 	2007-2008

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Grants and Awards	
Cornell Graduate School Conference Grant	2016
 NSF Graduate Research Fellowship: Honorable Mention 	2016
 Cornell Fellowship 	2015
Animal Behavior Society Turner Program	2012
 University Scholars Program Scholarship 	2011-2012
 National Merit Scholarship 	2008-2012
 UF College of Liberal Arts and Sciences, McLaughlin Scholarship 	2011
Best Paper Award, University of Florida Graduate Student Council Interdisciplinary	2009
Research Conference	