ERICA M. HOLDRIDGE

Boise State University
Department of Biological Sciences.
1910 W University Dr., Boise, ID 83725.

(208) 426-3262
ericaholdridge@boisestate.edu
ORCID iD: 0000-0002-7508-9981

CURRENT POSITION:

Assistant Professor of Biology 2022 – present
Stonehill College (North Easton, MA)

NSF Postdoctoral Research Fellow 2021 – 2022
Boise State University (Boise, ID)
From Nanoscale to Global Scale: Viruses as Drivers of Community Interactions and Ecosystem Function
Advisor: Dr. Leonora Bittleston

EDUCATION:

Ph.D. Ecology & Evolutionary Biology 2015 – 2021
Yale University (New Haven, CT)
Dissertation Title: *Mechanisms of Resource Competition with Intraspecific Variation*
Advisor: Dr. David Vasseur

M.S. Ecology & Evolutionary Biology 2015-2017
Yale University (New Haven, CT)
Advisor: Dr. David Vasseur

M.S. Biology 2013 – 2015
California State University, Northridge (Northridge, CA)
Thesis Title: *Effects of environmental change on the eco-evolutionary dynamics of species in natural microcosm communities*
Advisor: Dr. Casey terHorst

B.S. Biological Science with Honors 2009 – 2013
Florida State University (Tallahassee, FL)
Thesis Title: *Trophic ecology of ariid catfishes in the Gulf of Mexico*
Advisor: Dr. Dean Grubbs

TEACHING EXPERIENCE:

Vertically Integrated Project Co-Instructor Spring 2022
Characterizing Complex Communities in Natural Systems
Boise State University & College of Western Idaho

i-STEM Strand Provider 2021 – 2022
Idaho STEM Action Center
Course Title: *Biology at Every Scale: From Viruses to*

Carbon Cycles

Teaching Fellow 2016 – 2020
Yale University
Courses Taught: *Principles of Ecology and Evolutionary Biology, Conservation Biology, Evolution & Functional Traits, Ecology of Food*

McDougal Writing Fellow 2017 – 2018
Yale University Graduate Writing Lab
Courses Taught: *Writing a Prospectus in the Sciences, Presenting Engagingly: Effective Slides,Science Research Paper Writing Series*

Teaching Associate 2013 – 2015
California State University, Northridge
Courses Taught: *Biological Principles I Laboratory, Biological Principles II Laboratory, Evolutionary Biology, Molecular Markers in Evolutionary Studies with Laboratory*

ADVISING AND MENTORSHIP:

Summer Authentic Research Experience Mentor 2021
Idaho GEM3/Boise State University
Students: Marcus Emmen, Michael Robison

Authentic Science Research Program Mentor 2017 – 2018
Darien High School
Student: Manvi Malhotra (now at Duke Engineering)
Project Title: *A theoretical model of emergent effects of Increasing temperature on predator-prey interactions between Didinium and Paramecium*.
First Place at the Connecticut STEM Fair

GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS:

NSF Postdoctoral Research Fellowship in Biology	$207,000	2020
Jane M. Oppenheimer Fellowship		2020
Charles A. and June R.P. Ross Fellowship		2017
Leo F. Rettger Fellowship		2016
Yale Ecology & Evolution Department Chair's Fund	$1000	2016
CSU Northridge Associated Students Scholarship	$2000	2014
Leslie and Terry Cutler Scholarship For Outstanding Promise in Science	$2000	2014

Graduate Fellowship for Outstanding Research Promise in Science and Mathematics	$5000	2014
CSU Northridge Thesis Support Grant	$1200	2013

HONORS AND AWARDS:

Mack I. Johnson Research Award for Outstanding Graduate Student 2015
California State University, Northridge
College of Science and Mathematics

Bianchi Outstanding Graduate Research Award 2015
California State University, Northridge
Department of Biology

Julie Gorchynski, M.D. Graduating Masters Student Award 2015
California State University, Northridge
Department of Biology

PEER-REVIEWED PUBLICATIONS:

Holdridge, E.M., M. Emmen, K. Anantharaman and L.S. Bittleston. Metagenomics reveal bacteriophage with auxiliary metabolic genes and a high proportion of lysogeny in carnivorous pitcher plant natural microcosms. In prep. August 2022.

Holdridge, E.M. and D.A. Vasseur. Intraspecific variation promotes coexistence under competition for essential resources. *Theoretical Ecology.* DOI: 10.1007/s12080-022-00539-9. July 2022

Rodriguez, Z., **E.M. Holdridge**, and T.E. Miller. Cryptic coloration in the green lynx spider (*Peucetia viridans). Ecological Entomology.* DOI: 10.1111/een.13132. February 2022.

Holdridge, E.M., G.E. Flores and C.P. terHorst. Predator trait evolution alters prey community composition. *Ecosphere.* DOI: 10.1002/ecs2.1803. May 2017.

Holdridge, E.M., C. Cuellar-Gempeler and C.P. terHorst. A shift from exploitation to interference competition with increasing density affects population and community dynamics. *Ecology and Evolution.* DOI: 10.1002/ece3.2284. August 2016.

INVITED PRESENTATIONS:

Holdridge, E.M. Characterizing host-phage networks in carnivorous pitcher plants. In-depth session at the American Society for Microbiology (ASM) Microbe. Washington DC. June 2022.

Holdridge, E.M. Mechanisms of resource competition with intraspecific variation. Florida State University Ecology and Evolution Seminar. Tallahassee, FL. October 2020.

Holdridge, E.M. Why do we need math and theory in ecology? Darien High School 17th Annual Science Symposium. Keynote Address. Darien, CT. May 2018.

Holdridge, E.M., C. Konopnicki and A. Jarret. Trust Your Gut: How helpful bacteria impact health. National Association of Pediatric Nurse Practitioners (NAPNAP) Connecticut Chapter Conference. Orange, CT. November 2016.

Holdridge, E.M. and C.P. terHorst. Relative effects of exploitative and interference competition vary with population density. University of California Los Angeles EcoEvoPub Series. Los Angeles, CA. November 2014.

CONTRIBUTED PRESENTATIONS:

Holdridge, E.M. and D. Vasseur. Is it important to think of populations as emergent properties of individuals? Paper presented at the Ecological Society of America Annual Meeting. Virtual. August 2021.

Holdridge, E.M. Age at maturity increases with strength of interspecific competition. Paper presented at the Ecological Society of American Annual Meeting. New Orleans, LA. August 2018.

Holdridge, E.M. and D. Vasseur. Incorporating intraspecific variation into R* Theory. Paper presented at the Ecological Society of America Annual Meeting. Fort Lauderdale, FL. August 2016.

Holdridge, E.M. Age at maturity increases with strength of interspecific competition. Poster presented at the Yale EEB Department Annual Graduate Student Symposium. New Haven, CT.May 2016. **Third Place**

Holdridge, E.M. Eco-evolutionary response of communities to nutrient enrichment and warming. Paper presented at the Ecological Society of America Annual Meeting. Baltimore, MD. August 2015.

Holdridge, E.M. Effects of nutrient enrichment on the evo-evolutionary dynamics of species in carnivorous plant inquiline communities. Paper presented at the 19th Annual Research & CreativeWork Symposium at CSUN. Northridge, CA. February 2015. **Best Talk Award**

Holdridge, E.M. and C.P. terHorst. Relative effect of exploitative and interference competition varies with population density. Paper presented at the Western Society of Naturalists Annual Meeting. Tacoma, WA. November 2014.

Holdridge, E.M. and C.P. terHorst. Paradoxical response of density-dependence to resource limitation. Paper presented at the Ecological Society of America Annual Meeting. Sacramento,CA. August 2014.

Holdridge, E.M. Trophic ecology of ariid catfishes in the Gulf of Mexico. Paper to be presented at the Western Society of Naturalists Annual Conference. Oxnard, CA. November 2013.

Holdridge, E.M. Trophic ecology of ariid catfishes in the Gulf of Mexico. Poster presentation at the Southeastern Ecology and Evolution Conference. Orlando, FL. April 2013.

ADDITIONAL RESEARCH EXPERIENCE:

Visiting Scholar 2018 – 2020

Department of Biological Science
Florida State University

Laboratory and Field Technician 2013
Department of Marine and Environmental Science
Northeastern University

Undergraduate Research Assistant 2011 – 2013
Coastal and Marine Laboratory
Florida State University

Undergraduate Research Assistant 2010
Department of Chemistry and Biochemistry
Florida State University

ADDITIONAL TRAINING:

Fundamentals of Teaching in STEM Course 2016
Center for Teaching and Learning
Yale University

Enhancing Linkages between Mathematics And Ecology (ELME) Program 2014
Kellogg Biological Station
Michigan State University

SERVICE AND OUTREACH:

American Society for Microbiology 2022 – present
Member, In-Depth Symposium Convener

EPSCoR Postdoc Integration Team 2021 – present
Participating Member

Ecology & Evolution Research Discussion Group 2019 – 2020
Florida State University

Yale Journal of Biology and Medicine 2015 - 2017
Editorial Board Member
Manuscript Editor

Yale Science Diplomats 2015 – 2016
"Science in the News" Speaker

Ecological Society of America 2014 – present
General Member
Microbial Ecology Section Member

Eco-Evo Lab Blog 2014 – 2015
Regular Contributor

http://www.ecoevolab.com/author/ericaholdridge/

Women in Science 2013 – 2015
California State University, Northridge