

# ERICA M. HOLDRIDGE

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Department of Biological Sciences.  
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## CURRENT POSITION:

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

## EDUCATION:

**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

**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*

<b>Teaching Fellow</b> Yale University <u>Courses Taught:</u> <i>Principles of Ecology and Evolutionary Biology, Conservation Biology, Evolution &amp; Functional Traits, Ecology of Food</i>	2016 – 2020
<b>McDougal Writing Fellow</b> Yale University Graduate Writing Lab <u>Courses Taught:</u> <i>Writing a Prospectus in the Sciences, Presenting Engagingly: Effective Slides, Science Research Paper Writing Series</i>	2017 – 2018
<b>Teaching Associate</b> California State University, Northridge <u>Courses Taught:</u> <i>Biological Principles I Laboratory, Biological Principles II Laboratory, Evolutionary Biology, Molecular Markers in Evolutionary Studies with Laboratory</i>	2013 – 2015

**ADVISING AND MENTORSHIP:**

<b>Summer Authentic Research Experience Mentor</b> Idaho GEM3/Boise State University Students: Marcus Emmen, Michael Robison	2021
<b>Authentic Science Research Program Mentor</b> Darien High School Student: Manvi Malhotra (now at Duke Engineering) Project Title: <i>A theoretical model of emergent effects of Increasing temperature on predator-prey interactions between Didinium and Paramecium.</i> <b><u>First Place at the Connecticut STEM Fair</u></b>	2017 – 2018

**GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS:**

<b>NSF Postdoctoral Research Fellowship in Biology</b>	\$207,000	2020
<b>Jane M. Oppenheimer Fellowship</b>		2020
<b>Charles A. and June R.P. Ross Fellowship</b>		2017
<b>Leo F. Rettger Fellowship</b>		2016
<b>Yale Ecology &amp; Evolution Department Chair's Fund</b>	\$1000	2016
<b>CSU Northridge Associated Students Scholarship</b>	\$2000	2014
<b>Leslie and Terry Cutler Scholarship For Outstanding Promise in Science</b>	\$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, and L.S. Bittleston. Metagenomics reveal bacteriophage with auxiliary metabolic genes and a high proportion of lysogeny in carnivorous pitcher plant natural microcosms. Submitted. Preprint available: <https://doi.org/10.22541/au.166618890.06191324/v1>. October 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 the ecological role of viruses in carnivorous pitcher plants. Genomics and Eco-evolution of Multi-Scale Symbioses (GEMS) Seminar. Virtual. October 2022.

**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.

E.M. Holdridge

**Holdridge, E.M.** Why do we need math and theory in ecology? Darien High School 17<sup>th</sup> 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 19<sup>th</sup> 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:**

<b>Visiting Scholar</b> Department of Biological Science Florida State University	2018 – 2020
<b>Laboratory and Field Technician</b> Department of Marine and Environmental Science Northeastern University	2013
<b>Undergraduate Research Assistant</b> Coastal and Marine Laboratory Florida State University	2011 – 2013
<b>Undergraduate Research Assistant</b> Department of Chemistry and Biochemistry Florida State University	2010

**ADDITIONAL TRAINING:**

<b>Fundamentals of Teaching in STEM Course</b> Center for Teaching and Learning Yale University	2016
<b>Enhancing Linkages between Mathematics And Ecology (ELME) Program</b> Kellogg Biological Station Michigan State University	2014

**SERVICE AND OUTREACH:**

<b>American Society for Microbiology</b> Member, In-Depth Symposium Convener	2022 – present
<b>EPSCoR Postdoc Integration Team</b> Participating Member	2021 – present
<b>Ecology &amp; Evolution Research Discussion Group</b> Florida State University	2019 – 2020
<b>Yale Journal of Biology and Medicine</b> Editorial Board Member Manuscript Editor	2015 - 2017
<b>Yale Science Diplomats</b> “Science in the News” Speaker	2015 – 2016
<b>Ecological Society of America</b> General Member Microbial Ecology Section Member	2014 – present

**Eco-Evo Lab Blog** 2014 – 2015  
Regular Contributor  
<http://www.ecoevolab.com/author/ericaholdridge/>

**Women in Science** 2013 – 2015  
California State University, Northridge