

JESSICA R. COYLE

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EDUCATION

- 2016 PhD, Biology
 University of North Carolina, Chapel Hill, NC
 Advisor: Dr. Allen H. Hurlbert
 Dissertation: *Trait-based inference of environmental constraints on lichen epiphyte communities at multiple spatial scales*
- 2008 BA, Mathematics and Biology
 Colorado College, Colorado Springs, CO
 Distinction in Mathematics and *magna cum laude*
 Advisor: Dr. Steven Janke
 Thesis: *The effect of fire on Ponderosa Pine forest structure*

PROFESSIONAL APPOINTMENTS

- 2018 - Present Assistant Professor of Biology, Saint Mary's College of California, Moraga, CA
 2016 - 2017 Lecturer in Biology, Stanford University, Stanford, CA
 2016 Postdoctoral Research Scientist, University of Florida, Gainesville, FL

PUBLICATIONS

Refereed Journal Articles

- 2018 Lu, J., N. Magain, J. Miadlikowska, **J.R. Coyle**, C. Truong, F. Lutzoni. Bioclimatic factors at an intrabiome scale are more limiting than cyanobiont availability for the lichen-forming genus *Peltigera*. *American Journal of Botany* 105: 1-14. DOI: 10.1002/ajb2.1119
- 2017 **Coyle, J.R.** Intraspecific variation in epiphyte functional traits reveals limited effects of microclimate on community assembly in temperate deciduous oak canopies. *Oikos* 126: 111-120. DOI: 10.1111/oik.03239
- 2016 **Coyle, J.R.** and A.H. Hurlbert. Environmental optimality, not heterogeneity, drives regional and local species richness in lichen epiphytes. *Global Ecology and Biogeography* 25: 406 - 417. DOI: 10.1111/geb.12420
- Rambold, G. L. Zedda, **J.R. Coyle**, D. Peršoh, T. Köhler, and D. Triebel. Geographic heat maps of lichen traits derived by combining LIAS light description and GBIF occurrence data, provided on a new platform. *Biodiversity and Conservation* 25: 2743-2751. DOI: 10.1007/s10531-016-1199-2
- 2014 **Coyle, J.R.**, F.W. Halliday, B.E. Lopez, K.A. Palmquist, P. Wilfahrt, and A.H. Hurlbert. Using trait and phylogenetic diversity to evaluate the generality of the stress-dominance hypothesis in eastern North American tree communities. *Ecography* 37: 814-826. DOI: 10.1111/ecog.00473. *Editor's Choice and Cover Feature
- 2013 **Coyle, J.R.**, A.H. Hurlbert, and E.P. White. Opposing mechanisms drive richness patterns of core and transient bird species. *American Naturalist* 181: E83-E90.

- 2012 Testa, J.W., K.J. Mock, C. Taylor, H. Koyuk, **J.R. Coyle**, and R. Waggoner. Agent-based modeling of the dynamics of mammal-eating killer whales and their prey. *Marine Ecology Progress Series* 466: 275-291.

GRANTS, AWARDS AND FELLOWSHIPS

- 2014 - 2016 NSF Doctoral Dissertation Improvement Grant
 2014 Grant-in-aid of Research, Highlands Biological Station, Highlands, NC
 2011 - 2015 NSF Graduate Research Fellowship
 2010 - 2015 Pogue Graduate Fellowship, Royster Society of Fellows
 University of North Carolina, Chapel Hill, NC

TEACHING EXPERIENCE

- 2018 - Present Assistant Professor of Biology, Saint Mary's College of California, Moraga, CA
 2017 - Present Software and Data Carpentry Instructor
 2016 - 2018 Lecturer in Biology, Stanford University, Stanford, CA
 2014 Teaching Assistant, University of North Carolina, Chapel Hill, NC
 2009 Mathematics and Biology Teacher, Gracious Secondary School, Mangochi, Malawi
 2008 Mathematics and Ecology Teacher, Stellar Secondary School, Anchorage, AK

COURSES TAUGHT

Saint Mary's College of California
 General Ecology (Fall 2018)

Stanford University

- Ecological Statistics (Fall 2017, co-taught)
 Research in Ecology and Evolution: Lichen microbes (Spring 2017, 2018)
 Research in Ecology and Evolution: Nectar microbes (Winter 2016, 2017)

University of North Carolina at Chapel Hill

- Global Biodiversity and Macroecology (Fall 2014, TA)

SERVICE TO PROFESSION

- 2016 Conference Co-chair, Gordon Research Seminar: Unifying Ecology Across Scales

Reviewer: Ecology Letters, Global Ecology and Biogeography, Ecology,
 Journal of Biogeography, Mycologia, Plant Ecology, The Lichenologist,
 Biodiversity and Conservation, Biological Conservation, PLOS One

SERVICE TO UNIVERSITY

- 2012 - 2014 Officer in the Biology Graduate Students Association, UNC Chapel Hill
 2011 - 2013 Graduate Student Leader, Dimensions of Biodiversity Distributed Graduate Seminar,
 UNC Chapel Hill

COMMUNITY INVOLVEMENT & OUTREACH

- 2013 - 2014 Educational collaboration with the North Carolina School of Science and Math
 2013 Contributing author to Biodiverse Perspectives blog (<http://biodv.com>)
 2012 Organized "Life As Art" exhibit at the North Carolina Botanical Garden
 2011 - 2014 Author of Biogeography Bits blog (<http://biogeobits.blogspot.com>)

PROFESSIONAL AFFILIATIONS

2011 - 2018 Ecological Society of America, member
 2016 - 2018 International Association of Lichenologists
 2018 California Lichen Society
 2018 National Science Teachers Association
 2018 Society of College Science Teachers

PRESENTATIONS

Invited Talks

2016 Taxon-free detection of cross-scale assembly processes in lichen epiphyte communities. Ecological Society of America Annual Meeting Organized Oral Session: Functional Ecology of Cryptogams: Scaling from the Traits of Bryophytes, Lichens and Soil Crusts to Ecosystem Processes.
 Does environmental heterogeneity promote diversity? Large-scale insight from lichens and birds. Biology Department Seminar, California Polytechnic State University

Conference Participation

2016 Taxon-free detection of cross-scale assembly processes in lichen epiphyte communities. International Lichenological Symposium
 Environmental optimality, not heterogeneity, drives regional and local species richness in lichen epiphytes. American Society of Naturalists Meeting at Asilomar
 2015 Does canopy microclimate structure lichen epiphyte communities? Evidence from intra- versus interspecific variation in functional traits. Ecological Society of America Annual Meeting
 Is environmental heterogeneity a driver of species richness at local and regional scales? A comparison of lichen families across North American forests. International Biogeography Society Biennial Meeting
 2014 Do more niches or better niches promote species richness? Insight from local and regional drivers of lichen diversity across U.S. forests. Gordon Research Conference: Unifying Ecology Across Scales, Ecological Society of America Annual Meeting
 2011 Opposing mechanisms drive diversity patterns of core and occasional bird species. Ecological Society of America Annual Meeting