

Quentin D. Read

Postdoctoral Researcher, Michigan State University

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POSTDOCTORAL RESEARCH

Michigan State University, East Lansing, MI 2016-2018 (expected)
Department of Forestry; Ecology, Evolutionary Biology, & Behavior Program
Funded by NSF EAGER grant: "Intraspecific trait variation and community structure at a continental scale"
Advisors: Dr. Phoebe Zarnetske (MSU) and Dr. Sydne Record (Bryn Mawr College)

EDUCATION

University of Tennessee at Knoxville, Knoxville, TN 2011-2016
Dissertation title: "Individual variation in plant traits drives species interactions, ecosystem functioning, and responses to global change."
Ph.D., Ecology and Evolutionary Biology, awarded May 2016
Advisor: Dr. Nathan Sanders

University of North Carolina at Chapel Hill, Chapel Hill, NC 2005-2009
B.S. with highest distinction in Environmental Science
Minor in Biology, Concentration in Ecology
GPA: 3.9

PUBLICATIONS

- Read, Q. D.**, J. M. Grady, P. L. Zarnetske, S. Record, B. Baiser, J. Belmaker, M.-N. Tuanmu, A. Strecker, L. Beaudrot, and K. M. Thibault. Intraspecific variation in body size reveals community assembly in North American rodents. *Nature Ecology & Evolution*, in review.
- Read, Q. D.**, J. A. Henning, and N. J. Sanders. Intraspecific variation in traits reduces ability of trait-based models to predict community structure. *Journal of Vegetation Science*, in revision.
- Read, Q. D.**, J. A. Henning, A. T. Classen, and N. J. Sanders. Aboveground resilience to species loss but belowground resistance to nitrogen addition in montane plant communities. *Journal of Plant Ecology*. DOI: 10.1093/jpe/rtx015
- Read, Q. D.**, S. M. Hoban, M. B. Eppinga, J. A. Schweitzer, and J. K. Bailey. 2016. Accounting for the nested nature of genetic variation across levels of organization improves our understanding of biodiversity and community ecology. *Oikos* 125:895-904. DOI: 10.1111/oik.02760
awarded Editor's Choice
- Read, Q. D.**, L. C. Moorhead, N. G. Swenson, J. K. Bailey, and N. J. Sanders. 2014. Convergent effects of elevation on functional leaf traits within and among species. *Functional Ecology* 28:37-45. DOI: 10.1111/1365-2435.12162
nominated for the British Ecological Society's Haldane Prize for Young Investigators
- Hendershot, J. N., J. A. Henning, **Q. D. Read**, and A. T. Classen. Exploring global drivers of soil

organism diversity and abundance patterns along elevational and latitudinal gradients.
Ecology: in revision.

Van Nuland, M. E., R. C. Wooliver, A. A. Pfennigwerth, **Q. D. Read**, I. M. Ware, L. Mueller, J. A. Fordyce, J. A. Schweitzer, and J. K. Bailey. 2016. Plant-soil feedbacks: connecting ecosystem ecology and evolution. *Functional Ecology*. DOI: 10.1111/1365-2435.12690.

Yoon, S. A. and **Q. D. Read**. 2016. Consequences of exotic host use: impacts on Lepidoptera and a test of the ecological trap hypothesis. *Oecologia*. DOI: 10.1007/s00442-016-3560-2

Schussler, E. E., **Q. D. Read**, G. Marbach-Ad, K. Miller, and M. Ferzli. Preparing Biology Graduate Teaching Assistants for Their Roles as Instructors: An Assessment of Institutional Approaches. *CBE-Life Sciences Education* 14:1-11. DOI: 10.1187/cbe.14-11-0196

Gorman, C. E., **Q. D. Read**, M. E. Van Nuland, and others. 2013. Phylogenetic similarity aboveground leads to community similarity belowground through conservatism of functional traits. *Annals of Botany Plants* plt049. DOI: 10.1093/aobpla/plt049 *Editor's Choice*.

Van Nuland, M. E., E. N. Haag, J. A. Bryant, **Q. D. Read**, and others. 2013. Fire promotes pollinator visitation: implications for ameliorating declines of pollination services. *PloS One* 8:e79853. DOI: 10.1371/journal.pone.0079853

Soltoff, B. D., A. S. Powell, **Q. D. Read**, and J. S. Clark. 2012. Evidence from individual inference for high-dimensional coexistence: long term experiments on recruitment response. *PLoS One* 7:e30050. DOI: 10.1371/journal.pone.0030050

RESEARCH VISITS AND SHORT COURSES

Research visit

Jason McLachlan laboratory, University of Notre Dame

Fall 2014, Fall 2015

Short courses

Boreal Forest Ecology, Swedish University of Agricultural Sciences, Umeå, Sweden

June 2013

Fundamentals of Ecosystem Ecology, Cary Institute of Ecosystem Studies,
Millbrook, NY

January 2012

TEACHING EXPERIENCE/GRADUATE ASSISTANTSHIPS

Co-Instructor, Michigan State University

Fisheries & Wildlife 893: Metacommunity Ecology

Spring 2017

Graduate Research Assistant, UT-Knoxville

Fall 2013

Research assistantship with Dr. Elisabeth Schussler, assisting in creating recommendations to improve training and professional development for graduate teaching assistants.

Graduate Teaching Assistant, UT-Knoxville

Ecology & Evolutionary Biology 406: Models in Biology

Spring 2016

Ecology & Evolutionary Biology 484: Conservation Biology

Spring 2015, Spring 2016

Biology 250: General Ecology

Fall 2012, Spring 2013, Spring 2014

Biology 130: Introduction to Biodiversity

Fall 2011, Spring 2012

Guest lectures and workshops

Rocky Mountain Biological Laboratory

Wrote curriculum and led workshop on graphing with R and ggplot

July 2015

Co-led panel discussion on writing scientific papers

July 2015

Wrote curriculum and led workshops on advanced topics in statistics with R July 2014
University of Tennessee
Guest lecture (led a mock trial), Conservation Biology Spring 2015
Guest lecture on biogeochemistry, General Ecology Fall 2012 and Spring 2014
Guest lecture on climate change and communities, General Ecology Spring 2013

Mentoring experience

Mentored 8 undergraduates through Rocky Mountain Biological Laboratory and NSF REU programs, 2012, 2013, 2014, 2015

HONORS AND AWARDS

University of Tennessee Science Alliance graduate award, for exemplary accomplishments as a graduate student, 2015 (\$3000)
Outstanding Outreach and Community Service award, UT-Knoxville Department of Ecology and Evolutionary Biology, Spring 2014 (awarded for leadership of Darwin Day)

Dr. Jean H. Langenheim Endowed Graduate Fellowship in the Ecology and Evolution of Plants, Rocky Mountain Biological Laboratory, 2013-2014 (\$6000)

Honorable Mention, National Science Foundation Graduate Fellowship, 2013

Dr. Lee R. G. Snyder Memorial Fellowship, Rocky Mountain Biological Laboratory, 2012

Travel Awards

NSF travel grant to deliver biology education seminar at Notre Dame, March 2015

UTK Graduate Student Senate and EEB departmental travel awards to attend short course in Sweden, June 2013

PRESENTATIONS

“Individual variation in organismal traits: predicting patterns in space and time from local to global scales.” Michigan State University Department of Forestry, Hanover Forest Science Seminar Series, September 2016.

Read, Q. D., N. J. Sanders, and A. T. Classen. “A globally replicated experiment shows that long-term environmental filters constrain plant response to increased temperature and loss of foundation species.” Ecological Society of America, August 2015.

“C3UBE undergraduate biology curriculum reform.” University of Notre Dame, Biology Education Seminar, Notre Dame, IN, March 2015.

“Roots, leaves, and soils facing global change.” Rocky Mountain Biological Laboratory Seminar, Crested Butte, CO, June 2014.

“Plant traits & interactions altered by warming at different elevations.” Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN, January 2014.

MEETINGS AND WORKING GROUPS

Organized meeting with collaborators at National Ecological Observatory Network headquarters; gave presentation to NEON staff, Boulder, CO, January 2017.

REVIEWER EXPERIENCE

Served as reviewer for the following journals: *Plant Ecology*, *Ecological Monographs*, *Ecology Letters*, *Annals of Botany Plants*, *Methods in Ecology and Evolution*, *Ecography*, *Biotropica*,

Functional Ecology (3 times), *Journal of Plant Ecology*, *PeerJ* (2 times), *Ecology and Evolution*, *PloS One*, *Ecosphere*, *New Phytologist* (2 times), *Global Change Biology* (3 times)

VOLUNTEERING AND OUTREACH

University of Tennessee, Knoxville, TN:

Volunteer, Tennessee State Science Olympiad, 2015

Coordinator, Darwin Day, student-run science education event, 2014

Advertising coordinator, Darwin Day 2013; Volunteer, Darwin Day 2012, 2015

Participant in curriculum development and reform for undergraduate biology courses, CUBE program, 2013-2014

Rocky Mountain Biological Laboratory, Gothic, CO: Volunteer, Kids Nature Camp, 2015

Voyager Academy, Durham, NC: Discussed my research and assisted 7th-grade students with climate change research projects, 2012, 2013

Knoxville Zoo: Volunteer, Boo at the Zoo, a public outreach event, 2011, 2012

Walland Elementary School: Created a field guide with 2nd-grade students, 2011

RELEVANT WORK EXPERIENCE

Wildlife Office, Kaibab National Forest, USDA Forest Service, Williams, AZ

Wildlife intern

May 2011-July 2011

Institute for Tropical Ecosystem Studies, UPR-Rio Piedras, Puerto Rico

Seedling census volunteer

January 2011-April 2011

Lab of Dr. Jim Clark, Duke University, Durham, NC

Research technician

Summer 2008 and May 2010-January 2011

Smithsonian Conservation Biology Institute, Front Royal, VA

Ecology intern

January-April 2010

North Carolina Botanical Garden, Chapel Hill, NC

Conservation and Land Management intern

June-November 2009

Morehead Planetarium and Science Center, UNC-Chapel Hill, Chapel Hill, NC

Summer camp counselor, educator, exhibit staffer

May 2006-May 2008

UNDERGRADUATE RESEARCH

Biology Department, University of North Carolina, Chapel Hill, NC (Spring 2009)

“Morphological and anatomical characteristics of a *Pertica*-like plant of the Lower Devonian of northern New Brunswick, Canada,” with Dr. Patricia Gensel

Coweeta Hydrologic Laboratory, U.S. Forest Service LTER site, Otto, NC (Fall 2008);

project conducted for undergraduate field site program at Highlands Biological Station

“Soil and tree ring chemistry changes in an oak forest,” with Dr. Jennifer Knoepp

UNDERGRADUATE HONORS AND AWARDS

LeClair Award for excellence in plant studies, May 2009

Phi Beta Kappa, Spring 2008

Carolina Scholar (four-year academic merit scholarship)

LANGUAGE SKILLS

Fluent in spoken and written German

Communicate effectively in spoken and written Spanish

REFERENCES

Dr. Phoebe Zarnetske

Relationship: My postdoctoral advisor

Departments of Forestry and Fisheries & Wildlife, Michigan State University

email: plz@anr.msu.edu

Dr. Nathan Sanders

Relationship: My Ph.D. advisor

Department of Biology, University of Vermont

email: nathan.sanders@snm.ku.dk

Dr. Aimee Classen

Relationship: Member of my dissertation committee

Department of Biology, University of Vermont

email: atclassen@gmail.com

Dr. Jason McLachlan

Relationship: Hosted me as a visiting student

Department of Biology, University of Notre Dame

email: jmclachl@nd.edu

phone: (574) 361 1850

Dr. Elisabeth Schussler

Relationship: Supervised me in a graduate assistantship

Department of Ecology and Evolutionary Biology & Director of Biology Teaching and Learning,

University of Tennessee

email: eschussl@utk.edu

phone: (865) 974 6825

Dr. Jennifer Schweitzer

Relationship: Mentor and collaborator

Department of Ecology and Evolutionary Biology, University of Tennessee

email: jschweit@utk.edu

phone: (865) 974 0856