Quentin D. Read

Using big open data to understand how humans influence the natural world

Contact information

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Postdoctoral research and education

National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD *2018-present*
Socio-Environmental Immersion Postdoctoral Fellowship
"Food waste and the Environment"
Mentor: Dr. Mary Muth (RTI International, Durham, NC)

Michigan State University (MSU), East Lansing, MI *2016-2018*
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)

University of Tennessee (UT), Knoxville, TN *2011-2016*
Ph.D., Ecology and Evolutionary Biology
Advisor: Dr. Nathan Sanders

University of North Carolina, Chapel Hill, NC *2005-2009*
B.S. with highest distinction, Environmental Science

Skills

Data processing, visualizing, and analysis in R, including tidyverse, Stan, and R Markdown
Spatial analysis and modeling with GDAL and GIS libraries in R
Working knowledge of Python
Parallel computing in Unix environment
Using GitHub for version control and remote collaborations
Synthesizing data and theory, both in ecology and beyond
Fluent in spoken and written German; communicate effectively in spoken and written Spanish

Publications, presentations, and invited talks

Publications (for full list see Google Scholar)

Six first-authored publications in *Ecography, Biology Letters, Journal of Plant Ecology, Journal of Vegetation Science, Oikos,* and *Functional Ecology*

Two publications first-authored by an undergraduate whom I mentored, in *Ecology* and *Oecologia*

Ten co-authored publications in journals including *Global Ecology and Biogeography, PNAS,* and *PloS One*

Conference presentations

International Association of Landscape Ecology, Chicago, IL *2018*
Ecological Society of America, Portland, OR *2017*
Ecological Society of America, Baltimore, MD *2015*

Invited research talks

Commission for Environmental Cooperation, Arlington, VA	*2018*
National Ecological Observatory Network, Boulder, CO	*2017*
MSU Department of Forestry, Hanover Forest Science Seminar Series, East Lansing, MI	*2016*
University of Notre Dame biology education seminar, Notre Dame, IN	*2015*
Rocky Mountain Biological Laboratory seminar, Gothic, CO	*2014*
Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN	*2014*

Teaching and mentoring

Teaching

Co-instructor of graduate course at MSU	*2017*
Graduate teaching assistant for eight semesters at UT	*2011-2016*
Delivered four guest lectures in undergraduate courses at UT	*2013-2015*

Curriculum development and course design

Designed graduate teaching module at MSU	*2018*
Designed and led workshop on R and ggplot2	*2015*
Designed and led workshop on statistical analyses in R	*2014*
Served on panel developing and reforming undergraduate biology curriculum at UT	*2013-2014*
Surveyed biology instructors on current professional development opportunities for graduate teaching assistants, creating recommendations to improve TA training	*2013*

Mentoring

Mentored 4 undergraduates through Summer Research Opportunities Program and High Performance Computing Center, MSU	*2017 & 2018*
Mentored 8 summer research undergraduates, Rocky Mtn. Biological Laboratory	*2012-2015*
Mentored 3 undergraduate laboratory assistants, UT	*2013-2015*

Honors and awards

Science Alliance award, for exemplary accomplishments as a graduate student, UT	*2015*
Outstanding Outreach and Community Service award, UT Department of Ecology and Evolutionary Biology (awarded for leadership of Darwin Day)	*2014*
Dr. Jean H. Langenheim Endowed Graduate Fellowship in the Ecology and Evolution of Plants, Rocky Mountain Biological Laboratory	*2013-2014*
Honorable Mention, **National Science Foundation Graduate Fellowship**	*2013*
Dr. Lee R. G. Snyder Memorial Fellowship, Rocky Mountain Biological Laboratory	*2012*

Professional outreach

Peer reviewer for 30 manuscripts in 23 different journals	*2013-2019*
Review panelist, SESYNC immersion postdoctoral fellowship program	*February 2019*
Gave public research talks on climate change and citizen science, MSU	*2017-2018*
Volunteered at kids' science education events in TN, CO, and NC	*2011-2015*
Organized Darwin Day, a campus-wide science education event, UT	*2014*

Selected work experience

Jim Clark Lab, 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*