Quentin D. Read

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

SESYNC 1 Park Place, Suite 300 Annapolis, MD 21401 USA Email: qread@sesync.org
Website/Blog: quentinread.com
GitHub, StackOverflow: qdread

Professional experience

National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD 2018-present

Data scientist (50% time); Postdoctoral fellow (50% time), beginning September 2019

Postdoctoral Fellowship: "Food waste and the environment"

Mentor: Dr. Mary Muth (RTI International, Research Triangle Park, NC)

Michigan State University (MSU), East Lansing, MI

2016-2018

Department of Forestry; Ecology, Evolutionary Biology, & Behavior Program "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 (UT), Knoxville, TN

2011-2016

Ph.D., Ecology and Evolutionary Biology

Dissertation: "Individual variation in plant traits drives species interactions, ecosystem functioning, and responses to global change"

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 and Rmarkdown Bayesian modeling with Stan and JAGS

Spatial analysis and modeling with GDAL and GIS libraries in R

Working knowledge of Python

High-performance parallel computing using Linux server

Using GitHub for version control and remote collaborations

Fluent in spoken and written German; communicate effectively in spoken and written Spanish

Grants

Macrosystems Biology, NEON-Enabled Science (National Science Foundation; \$536,800)

Role: senior personnel, co-writer of grant

2019-2024

Publications and presentations

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 undergraduates whom I mentored, in *Ecology* and *Oecologia* Eleven other co-authored publications in journals including *Science of the Total Environment*, *Global Ecology and Biogeography*, and *PLoS One*

Conference presentations

U.S. Society for Ecological Economics, Louisville, KY

2019

International Association of Landscape Ecology, Chicago, IL Ecological Society of America, Baltimore, MD; Portland, OR	2018 2015, 2017
Invited research talks Commission for Environmental Cooperation, Arlington, VA German Centre for Integrative Biodiversity Research (iDiv), Leipzig, German National Ecological Observatory Network, Boulder, CO MSU Department of Forestry, Hanover Forest Science Seminar Series, East I University of Notre Dame biology education seminar, Notre Dame, IN Rocky Mountain Biological Laboratory seminar, Gothic, CO Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge	Lansing, MI 2016 2015 2014
Teaching and mentoring	
Teaching Co-instructor of graduate course at MSU Graduate teaching assistant for eight semesters at UT Delivered four guest lectures in undergraduate courses at UT	2017 2011-2016 2013-2015
Curriculum development and course design Designed graduate teaching module at MSU Designed and led workshop on R and ggplot2 Designed and led workshop on statistical analyses in R Served on panel developing and reforming undergraduate biology curriculum Surveyed biology instructors on current professional development opportunit teaching assistants, creating recommendations to improve TA training	
Mentoring Mentored 4 undergraduates through Summer Research Opportunities Progra Performance Computing Center, MSU Mentored 8 summer research undergraduates, Rocky Mtn. Biological Labora Mentored 3 undergraduate laboratory assistants, UT	2017-2018
Selected honors and awards	
Science Alliance award, for exemplary accomplishments as a graduate stude Outstanding Outreach and Community Service award, UT Department of Evolutionary Biology (awarded for leadership of Darwin Day) Dr. Jean H. Langenheim Endowed Graduate Fellowship in the Ecology and Plants, Rocky Mountain Biological Laboratory Dr. Lee R. G. Snyder Memorial Fellowship, Rocky Mountain Biological Laboratory	Ecology and 2014 d Evolution of 2013-2014
Professional and public outreach	
Peer reviewer for >30 manuscripts in 23 different journals Maintainer, R package rslurm Review panelist, SESYNC immersion postdoctoral fellowship program Gave public research talks on climate change and citizen science, MSU Volunteered at kids' science education events in TN, CO, and NC Organized Darwin Day, a campus-wide science education event, UT	2013-present 2019-present 2019 2017, 2018 2011-2015 2014
Selected work experience	
Jim Clark Lab, Duke University, Durham, NC Research technician North Carolina Botanical Garden, Chapel Hill, NC Conservation and Land Management internship	2008; 2010-2011
Comer varion and Dand Management internship	2005