Quentin D. Read

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

SESYNC Email: gread@sesync.org 1 Park Place. Suite 300 Website/Blog: quentinread.com GitHub, StackOverflow: qdread

Annapolis, MD 21401 USA

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)

Eight first-authored publications in Science of the Total Environment, Global Ecology and Biogeography, 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 La 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	2017 ensing, 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	2018
Designed and led workshop on R and ggplot2 Designed and led workshop on statistical analyses in R	2015 2014
Served on panel developing and reforming undergraduate biology curriculum	
Surveyed biology instructors on current professional development opportunities	es for graduate
teaching assistants, creating recommendations to improve TA training	2013
Mentoring	
Mentored 4 undergraduates through Summer Research Opportunities Program	n and High 2017-2018
Performance Computing Center, MSU Mentored 8 summer research undergraduates, Rocky Mtn. Biological Laborate	
Mentored 3 undergraduate laboratory assistants, UT	2013-2015
Selected honors and awards	
Science Alliance award, for exemplary accomplishments as a graduate studen	
Outstanding Outreach and Community Service award, UT Department of E	
Evolutionary Biology (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
Dr. Lee R. G. Snyder Memorial Fellowship, Rocky Mountain Biological Laboration	
Professional and public outreach	
Peer reviewer for >30 manuscripts in 25 different journals	2013-present
Maintainer, R package rslurm	2019-present 2019
Review panelist, SESYNC immersion postdoctoral fellowship program Gave public research talks on climate change and citizen science, MSU	2017, 2018
Organized Darwin Day, a campus-wide science education event, UT	2014
Selected work experience	
Jim Clark Lab, Duke University, Durham, NC	
Research technician	2008; 2010-2011
North Carolina Botanical Garden, Chapel Hill, NC	
Conservation and Land Management internship	2009