Quentin D. Read

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

N.C. State University Plant Sciences Building 840 Oval Drive Raleigh, North Carolina 27606

Professional appointments

Agricultural Research Service, U.S. Department of Agriculture, Raleigh, NC 2021-Applied Consulting Statistician, Southeast Area (located at North Carolina State University)

- Support USDA researchers by designing experiments, processing and visualizing data, and doing statistical analyses using R, Stan, SAS, and Python
- Assist researchers with git for collaborations and high-performance computing on Linux
- Pursue a research program modeling the impacts of the food system on human and natural communities, using techniques from ecology, environmental science, and economics

National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD 2018-2021 Data scientist (2019-2021); Postdoctoral fellow (2018-2020)

- Provided data science consulting for socio-environmental research teams
- Maintained and wrote content for SESYNC's cyberhelp website using Markdown and Jekyll
- Developed and taught lessons for data science curriculum
- Modeled impacts of food waste and benefits of food waste reduction interventions
- Obtained \$130,000 NSF fellowship for SESYNC's postdoctoral immersion training program

Michigan State University (MSU), East Lansing, MI

2016-2018

Email: quentin.read@usda.gov

Website: quentinread.com

GitHub: adread

Postdoctoral researcher, Department of Forestry

- Compiled, analyzed, and processed environmental and biodiversity datasets in R
- Designed spatial Bayesian models; did GIS analysis in R and GDAL

Education

University of Tennessee (UT), Knoxville, TN

2011-2016

Ph.D., Ecology & Evolutionary Biology

University of North Carolina, Chapel Hill, NC

2005-2009

B.S., Environmental Science

Publications (for full list see Google Scholar)

- Ten first-authored publications in journals including PNAS, Resources Conservation & Recycling, Science of the Total Environment, Ecography, and Biology Letters
- Twenty-four co-authored publications in journals including Science, Ecology, Science of the Total Environment, and Global Ecology and Biogeography

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Selected invited talks	
 N.C. State University, Plant & Microbial Biology department seminar, Raleigh, NC Duke University, University Program in Ecology Seminar Series, Durham, NC Commission for Environmental Cooperation, Arlington, VA 	20

Software

• Co-developer, <i>epi2me2r</i> : R package that helps users import Nanopore data into R	2022
• Lead developer, <i>Ostats</i> : R package for trait analysis of ecological communities	2021
• Co-developer, <i>ggalluvial</i> : R package adding functionality to ggplot2	2020
• Co-developer, <i>rslurm</i> : R package for running R code in parallel	2019

Selected teaching and mentoring experience

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• Mentored student team that won grand prize in a 75-team data science competition	2021
 Designed and taught workshops on R programming, geospatial data, and git 	2020-2021
Co-instructor of graduate seminar course in ecology at MSU	2017
 Mentored 17 undergraduates; two published first-author papers under my 	2012-2020
mentorship	