




Eric Scott






Educator | Ecological Modeler | Research Software Engineer

I'm a researcher and educator with experience doing and teaching statistical modeling, data visualization, and reproducible research. I'm looking for opportunities where I can apply my skills as an educator and data scientist as part of a team.




EDUCATION

- 2020 • **Tufts University**
Ph.D. in Biology  Medford, MA
- 2010 • **University of Illinois at Urbana-Champaign**
M.S. in Ecology, Evolution, and Conservation Biology  Urbana, IL
- 2006 • **Whitman College**
B.A. in Biology  Walla Walla, WA

SELECTED TEACHING EXPERIENCE

- 2020 • **Ecological Statistics and Data** 
Instructor of Record at Tufts University  Medford, MA
 - Developed curriculum to teach probability theory, generalized linear models and mixed-effects models using ecological examples
 - Created assignments and assessments in R Markdown
 - Mentored a teaching assistant in charge of a lab section
- 2018
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2016 • **R for biostatistics** 
Teaching assistant at Tufts University  Medford, MA
 - Developed and taught a mini-course introducing biostatistics students to R
 - Developed assignments and handouts using R Markdown
 - Assessed student performance and gave constructive feedback
- 2014
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2011 • **General Biology I**
Faculty at Front Range Community College  Fort Collins, CO
 - Taught introductory biology to students with a wide variety of backgrounds and career goals
 - Created and continuously revised curriculum and assessments using evidence-based pedagogy
 - Adapted curriculum for a student population with a large proportion of combat veterans and non-traditional students

CONTACT INFO

✉ scottericr@gmail.com
 github.com/Aariq
in [Eric-R-Scott-PhD](#)
 [@LeafyEricScott](#)
 +1 925-788-9855

SKILLS

Curriculum development
Statistics & modeling
Data visualization
Data wrangling
Data validation
R package development
Git & GitHub

R PACKAGES

tidyverse
rmarkdown / blogdown
targets
pointblank
usethis / devtools

*This resume was made with
the R package [pagedown](#).*

Last updated on 2022-03-04.



RESEARCH EXPERIENCE

Present
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2020



Postdoctoral Associate

Wildlife Ecology and Conservation, University of Florida

📍 Remote

- Analyzed a decade of plant demography data with generalized additive models to determine the delayed and seasonal effects of climate and habitat fragmentation
- Projected plant population dynamics under climate change scenarios defined in the Coupled Model Intercomparison Project, phase 6 (CMIP6)
- Mentored undergraduates in data analysis and best practices for collaborative, reproducible research

2020
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2014



Graduate Researcher

Biology Department, Tufts University

📍 Medford, MA

- Managed projects through entire research lifecycle
- Combined field experiments, metabolomics, and modeling to gain insights into impacts of climate change on tea quality
- Provided statistics and programming consultation to projects inside and outside of my main lab group
- Mentored undergraduates performing independent research in field, lab, and computational settings



SELECTED WRITINGS

2021



Using the Right Tool for the Job: The Difference between Unsupervised and Supervised Analyses of Multivariate Ecological Data.

Oecologia, 2021; 196:12-25. DOI: [10.1007/s00442-020-04848-w](https://doi.org/10.1007/s00442-020-04848-w)

Scott ER and Crone EE

2020



Muffins vs. Cupcakes: Round 2

Case study demonstrating supervised and unsupervised multivariate analyses. https://www.ericscott.com/post/cupcakes_vs_muffins_round_2/

2021



Treat Your Treatments as Continuous

A plea to ecologists to stop binning continuous data to do ANOVAs. https://www.ericscott.com/post/stop_binning/



SOFTWARE DEVELOPMENT EXPERIENCE

2020



webchem

rOpenSci

📍 Remote

- [R Consortium funded](#)
- Collaborated via [git/GitHub](#)
- Unified UX/UI across package
- Wrote new functions to integrate across data sources