




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 to transition into an industry role where I can apply my skills and continue to learn 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

RESEARCH EXPERIENCE

- Present | 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 | 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

CONTACT INFO

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SKILLS

Statistics & modeling,
Data visualization,
Data wrangling,
Data validation,
R package development,
Git & GitHub,
High Performance
Computing (SLURM),

MODELING

GLMs
Hierarchical models
Multivariate data analysis
GAMs

R PACKAGES

tidyverse
rmarkdown
targets
pointblank
usethis / devtools

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

Last updated on 2022-03-04.

SOFTWARE DEVELOPMENT EXPERIENCE

- 2020 ● **webchem** Remote
rOpenSci
- [R Consortium funded](#)
 - Collaborated via git/GitHub
 - Unified UX/UI across package
 - Wrote new functions to integrate across data sources
- 2019 ● **bumbl** Medford, MA
Crone Lab, Tufts University
- Adapted analysis code into an R package
 - Refactored for speed and reliability
 - Wrote unit tests and implemented continuous integration
 - [rOpenSci reviewed](#)

SELECTED TEACHING EXPERIENCE

- 2020 ● **Ecological Statistics and Data** Medford, MA
Instructor of Record at Tufts University
- 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 | 2016 ● **R for biostatistics** Medford, MA
Teaching assistant for Biostatistics at Tufts University
- 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

SELECTED WRITING

- 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/