




# 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

## RESEARCH EXPERIENCE

- Present | 2020 • **Postdoctoral Associate**  
Wildlife Ecology and Conservation, University of Florida  Remote
  - Analyzed a decade of plant demography data to model delayed and seasonal effects of climate and habitat fragmentation on plant vital rates
  - Projected plant population dynamics under climate change scenarios using model outputs from the Coupled Model Intercomparison Project, phase 6 (CMIP6) and integral projection models
  - Mentored undergraduates in data analysis and best practices for collaborative, reproducible research
- 2020 | 2014 • **Graduate Researcher**  
Biology Department, Tufts University  Medford, MA
  - 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,  
Reproducible analyses,  
Curriculum development,  
Programming in R,  
RMarkdown,  
R package development,  
Git & GitHub,  
High Performance  
Computing

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

*Last updated on 2022-03-10.*



## 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  
|  
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



## SELECTED WRITINGS

2021

### • **Delayed effects of climate on vital rates lead to demographic divergence in Amazonian forest fragments.**

Global Change Biology 2021; 28:463-479. DOI: [10.1111/gcb.15900](https://doi.org/10.1111/gcb.15900)

Scott ER, Uriarte M, Bruna EM

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



## 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

2019

### • **bumbl**

Crone Lab, Tufts University

📍 Medford, MA

- Adapted analysis code into an R package
- Refactored for speed and reliability
- Wrote unit tests and implemented continuous integration
- [rOpenSci reviewed](#)