





ERIC R. SCOTT

Eco-metabolomics, multivariate statistics, teaching




EDUCATION

- 2014–2019 • **Tufts University**
PhD Candidate in Biology  Medford, MA
- 2007–2010 • **University of Illinois at Urbana-Champaign**
M.S. in Ecology, Evolution, and Conservation Biology  Urbana, IL
- 2002–2006 • **Whitman College**
B.A. in Biology  Walla Walla, WA

RESEARCH EXPERIENCE

- 2014–2019 • **Graduate Research Assistant**
Tufts University  Medford, MA
 - Designed and carried out multiple field experiments in China and the US
 - Developed a strong understanding of multivariate approaches to analyzing metabolomics datasets
 - Provided statistics consulting to Tufts researchers
- 2007–2010 • **Graduate Research Assistant**
University of Illinois at Urbana-Champaign  Urbana, IL
 - Designed and conducted a multi-year field experiment
 - Analyzed data using generalized linear models and mixed effects models

SELECTED TEACHING EXPERIENCE

- 2016–2018 • **Biostatistics using R**
Tufts University  Medford, MA
 - Created companion [recitation section](#) to Biostatistics course to teach introductory R with a focus on the Tidyverse
 - Converted homework assignments from SPSS to R, making use of R Markdown documents
- Oct 2018 • **Reproducible Workflows for Ecology Research**
Workshop presented at Tufts University  Medford, MA
 - Developed [workshop](#) on reproducibility in data analysis for ecologists
 - Demonstrated use of R projects, project organization, authoring R packages, GitHub, and data archiving
- Jan 2018 • **R Notebooks: Richly annotate your statistical analyses and produce dynamic reports**
Workshop presented at Tufts University  Medford, MA
 - Demonstrated uses of R Notebooks for biological research
 - Discussed value of readable, annotated code for reproducibility and collaboration




PhD student specializing in multivariate data analysis, metabolomics, reproducible analyses, and teaching. On the market for data science and postdoc positions.

CONTACT INFO

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SKILLS

Multivariate data analysis

Expert in R and R Studio with emphasis on the Tidyverse.

Expert in communicating to scientific and general public

Web scraping and data wrangling

Package development

GitHub

Some Python and SQL

Last updated on 2019-02-17.



SELECTED PRESENTATIONS

Nov
2018

● **Can pests rescue tea quality from climate change?**

First place winning talk for Entomological Society of America Joint Meeting, Plant-Insect Ecosystems student competition

📍 Vancouver, BC

ER Scott, CM Orians

Aug
2017

● **Generating and analyzing metabolomic data from tea plant volatiles**

Poster for Data Intensive Studies Center (DISC) Symposium at Tufts University

📍 Medford, MA

ER Scott, N Kfoury



SELECTED PUBLICATIONS

2019

● **Combined impacts of prolonged drought and warming on plant size and foliar chemistry**

Ann. Bot. (2019). doi:10.1093/aob/mcz004

CM Orians, R Schweiger, J Dukes, **ER Scott**, C Müller

2019

● **Interactive effects of drought severity and simulated herbivory on tea (*Camellia sinensis*) volatile and non-volatile metabolites**

Environ. Exp. Bot. 157, 283–292 (2019).

doi:10.1016/j.envexpbot.2018.10.025

ER Scott, X Li, N Kfoury, J Morimoto, WY Han, S Ahmed, SB Cash, TS Griffin, JR Stepp, A Robbat, CM Orians

2018

● **Striking changes in tea metabolites due to elevational effects**

Food Chem. 264, 334–341 (2018). doi:10.1007/978-981-13-2140-5

N Kfoury, J Morimoto, A Kern, **ER Scott**, CM Orians, S Ahmed, TS Griffin, SB Cash, JR Stepp, D-Y Xue, C-L Long, A Robbat

2017

● **Direct Contact Sorptive Extraction: A Robust Method for Sampling Plant Volatiles in the Field**

J. Agric. Food Chem. 65, 8501–8509 (2017).

doi:10.1016/j.foodchem.2018.05.040

N Kfoury, **ER Scott**, CM Orians, A Robbat