Eric Scott
PhD Candidate

Update
March 2019

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Recent Publications

2019   **Combined impacts of prolonged drought and warming on plant size and foliar chemistry**   CM Orians, R Schweiger, JS Dukes, ER Scott, C Müller
Annals of Botany

2019   **Interactive effects of drought severity and simulated herbivory on tea (Camellia sinensis) volatile and non-volatile metabolites**   ER Scott, X Li, N Kfoury, J Morimoto, WY Han, S Ahmed, SB Cash, …
Environmental and Experimental Botany

Recent Presentations

Mar 2019   **Multivariate Statistics for Ecology and Baked Goods**   Tufts Graduate Student Symposium
Tufts University
➤ First place in 15 min talk category

Teaching

Spring 2019   **Graduate Teaching Assistant (Lecture TA for BIO 0014)**

Spring 2019   **Undergraduate Mentor (Bio 94)**

Feb 2019   **Lessons from fieldwork experiences**   Intro to environmental fieldwork (ENV120)
Tufts University

Awards and Honors

Mar 2019   **Finalist for Outstanding Contributions to Undergraduate Education Award**
Graduate School of Arts and Sciences

Mar 2019   **First place in Tufts Graduate Research Symposium 15 minute talk category**
Graduate School of Arts and Sciences

Other Updates

➤ Applied for internship at RStudio, was offered interview, but declined due to time requirement.
➤ Visited Gervay-Hague lab at UC Davis and was offered help writing a grant for a post-doc position there.
➤ I've heard from several researchers using my leafhopper egg finding method.
➤ I've decided not to use my 2017 leafhopper density experiment (potted plants, QXDM cultivar) for an example in the multivariate statistics paper. Instead, I'll include it with the 2018 data (mature plants, LJ and JGY cultivars).

Dissertation Outline

1. Introduction (book chapter, published)
2. ~~Direct contact sorptive extraction (published)~~
3. Multivariate statistics method comparison
4. Interactive effects of drought and herbivory (published)
5. Leafhopper density impact on tea secondary metabolites
6. Interactive effects of CO_2 and herbivory *or* Climate impacts on leafhopper population growth.
7. Conclusion

Timeline

January/February

➤ Consider using 2017 leafhopper data for example dataset in multivariate statistics paper [**DONE**]
    – I decided **not** to use it
➤ Begin mentoring BIO 94 student to get data for leafhopper experiments [**DONE**]

March

➤ Finish analysis report for CO_2 x herbivory paper [**DONE**]
➤ Finish analysis for multivariate statistics paper [**DONE**]
➤ ~~Submit multivariate stats paper to Oecologia~~

April

➤ Finish complete draft of multivariate stats paper (April 8)
➤ Submit multivariate stats paper to Oecologia
➤ Finish LC/MS for 2017 and 2018 leafhopper density experiments (Week of April 8)

May

➤ Mentee finishes leafhopper density paper (total phenolics and LC/MS compounds vs. density)
➤ Finish analysis of GC/MS and LC/MS data for leafhopper density experiments
➤ Draft of leafhopper density paper (for Frontiers in Plant Science special issue or Chemical Ecology)

June/July

➤ Submit leafhopper density paper
➤ Begin working on *either* CO_2 x herbivory manuscript *or* leafhopper population growth manuscript

August/September