

Eric Scott

PhD Candidate

Ecometabolomics, multivariate statistics, R

Education

- 2014 - 2019 **PhD**, *Tufts University*, Medford.
- 2007 - 2010 **MS**, *University of Illinois at Urbana-Champaign*, Urbana.
- 2002 - 2006 **B.A.**, *Whitman College*, Walla Walla.

Publications

- 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*.
- 2018 **Exogenous Melatonin Alleviates Cold Stress by Promoting Antioxidant Defense and Redox Homeostasis in *Camellia sinensis* L.**, *X Li, JP Wei, ER Scott, JW Liu, S Guo, Y Li, L Zhang, WY Han*, *Molecules*.
- 2018 **Striking changes in tea metabolites due to elevational effects**, *N Kfoury, J Morimoto, A Kern, ER Scott, CM Orians, S Ahmed, T Griffin, ...*, *Food chemistry*.
- 2018 **Differential Changes in Tea Quality as Influenced by Insect Herbivory**, *ER Scott, CM Orians*, *Stress Physiology of Tea in the Face of Climate Change*.
- 2017 **Direct Contact Sorptive Extraction: A Robust Method for Sampling Plant Volatiles in the Field**, *N Kfoury, E Scott, C Orians, A Robbat Jr*, *Journal of Agricultural and Food Chemistry*.

- 2009 **Behavioural, ecological and genetic evidence confirm the occurrence of host-associated differentiation in goldenrod gallmidges**, *N Dorchin, ER Scott, CE Clarkin, MP Luongo, S Jordan, WG Abrahamson*, Journal of evolutionary biology.
- 2007 **Taxonomy, life history, and population sex ratios of North American *Dasineura* (Diptera: Cecidomyiidae) on goldenrods (Asteraceae)**, *N Dorchin, CE Clarkin, ER Scott, MP Luongo, WG Abrahamson*, Annals of the Entomological Society of America.
- 2006 **First Record of *Macrolabis* (Diptera: Cecidomyiidae) in America: A New Inquiline Species from *Dasineura folliculi* Galls on Goldenrods**, *N Dorchin, ER Scott, WG Abrahamson*, Annals of the Entomological Society of America.
- 2006 **Behavioral Evidence for Host-race Formation in the Gall-midge *Dasineura Folliculi* (felt)**, *ER Scott*, Whitman College.

Research Experience

- Jan-17–Oct-18 **NSF grant coordinator**, *Tufts University*, Medford, MA.
- Schedule and implement conference calls
 - Coordinate in-person meetings
 - Public outreach via public facing website
- Sep-14–Present **Graduate Researcher**, *Tufts University*, Medford, MA.
- Conducted collaborative, interdisciplinary research on the effects of climate change and insect herbivory on tea metabolite profiles
 - Designed and carried out field, greenhouse, and lab experiments at the Tea Research Institute in Hangzhou, China and at Tufts University
 - Developed and validated a novel, high-throughput method for sampling plant volatiles in the field
 - Mentored undergraduate assistants in computational, lab, and field experiments
- Jul-10–Dec-10 **Research Assistant**, *Colorado Natural Heritage Program*, Fort Collins, CO.
- Worked as part of a team to survey remote wetlands throughout Colorado
 - Identified and collected plants and carried out vegetation sampling protocols
 - Described and samples soils to determine wetland hydrology
 - Worked with minimal supervision
- Aug-07–May-10 **Graduate Researcher**, *UIUC*, Urbana, IL.
- Successfully completed research projects from the planning stages, through data collection, problem solving, and presentation of results
 - Collected a variety of data in the field including long-term, repeated morphological measurements of plants, soil moisture and other soil data, and observations of herbivory
 - Mastered various lab techniques to collect data on plant chemical characteristics such as digestibility, nutrient content, and defense chemical content
 - Analyzed data using the statistical package R
 - Mentored undergraduate research assistants

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Jun-05–Aug-05 **Research Intern**, *Bucknell University*, Lewisburg, PA.

- Collaborated with post-doctoral researcher to design a pilot study investigating host-race formation in a gall midge
- Collected galls from the field and reared larvae in the lab
- Designed and carried out mating and host-choice experiments in the lab

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