

Dylan A. Tussey

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Education

2017-Present	University of Florida, Gainesville, FL	PhD Entomology GPA: 3.58
2015-2017	University of Minnesota Twin Cities, St Paul, MN	M.S. Entomology Concentration: Forest Entomology GPA: 3.8
2009-2013	University of North Carolina at Asheville, Asheville, NC	B.S. Environmental Studies Concentration: Ecology & Environmental Biology GPA: 3.58

Related Experience

RESEARCH ASSISTANT– UNIVERSITY OF FLORIDA, GAINESVILLE, FL– 2017 - PRESENT

- Thesis research: Improving field performance of sterilized *Aedes aegypti* mosquitoes for use in sterile insect technique
- Rearing and colony maintenance of mosquitoes
- Sterilization of mosquitoes using radiation

RESEARCH ASSISTANT– UNIVERSITY OF MINNESOTA, ST. PAUL, MN– 2015 - 2017

- Thesis research: Investigating the sublethal effects of cold on emerald ash borer (Coleoptera: Buprestidae), focusing on nutrition levels and dispersal capabilities
- Collection of Infested material and rearing of insects
- planting and maintenance of trees for food material
- Use of custom flight mill equipment and software
- Lipid and glycogen extraction and analysis

RESEARCH ASSISTANT– MOUNTAIN HORTICULTURAL CROPS RESEARCH AND EXTENSION CENTER, MILLS RIVER, NC – 2013 - 2015

- Plot set up and maintenance of vegetable fields and tree fruit orchards.
- Maintained insect colonies for research
- Monitored crops for insect damage and applied pesticides in test plots.
- Coordinated with various commercial growers, testing alternate application methods of insecticides.
- Created informational handouts on agricultural pests and insecticide application methods.
- Conducted annual surveys across North Carolina for presence of *Halyomorpha halys*.
- Assisted in numerous mating disruption studies in apple and peach orchards.

SUMMER SCHOLAR– NEW YORK STATE AGRICULTURAL EXPERIMENT STATION, GENEVA, NY– 2012

- Principal research duty involved testing the attractiveness of multiple synthetic sex pheromones for *Prionus laticollis* for use in IPM strategies.
- Setup, maintenance, and monitoring of insect traps for orchard IPM control programs.
- Data collection in field and recording data into databases.
- General field work included pruning trees and picking apples for various projects.

Awards and Accomplishments

ESA National Linnaean Games Champion team - 2019

ENSO Student Travel Grant- Fall 2019

Graduate School Funding Award, University of Florida- 2017

Departmental Travel Grant, University of Minnesota- 2015-2016

Publications

Tussey, D.A., B. H. Aukema, A. M. Charvoz, and R. C. Venette. 2018. Effects of adult feeding and overwintering conditions on energy reserves and flight performance of emerald ash borer (Coleoptera: Buprestidae). *Environmental Entomology*, 47(3): 755-763.

Parker, C., Bernaola, L., Lee, B.W., Elmquist, D., Cohen, A., Marshall, A., Hepler, J., Pekarcik, A., ... and **D.A. Tussey**. 2019. Entomology in the 21st Century: Tackling Insect Invasions, Promoting Advancements in Technology, and Using Effective Science Communication—2018 Student Debates, *Journal of Insect Science*, 19(4): <https://doi.org/10.1093/jisesa/iez069>

Selected Presentations

Dylan A. Tussey, Brian H. Aukema, and Robert C. Venette; Sublethal effects of cold on emerald ash borer (Coleoptera: Buprestidae): energy reserves and flight Capacity. XXV International Congress of Entomology. Orlando, FL, September 25-30, 2016.

Dylan A. Tussey, Brian H. Aukema, and Robert C. Venette; Effects of age and feeding on lipid content and flight capacity of *Agrilus planipennis*. Annual Meeting of the Entomological Society of America. Minneapolis, MN, November 15-18, 2015.

Dylan A. Tussey, Brian H. Aukema, and Robert C. Venette; Effects of feeding on lipid content and dispersal capability of adult *Agrilus planipennis*. 64th Annual North Central Forest Pest Workshop. Keshena, WI, September 21-24, 2015.

Dylan A. Tussey and Arthur M. Agnello; Comparative attractiveness of a single-component isomer vs. the racemic blend of a mating pheromone in *Prionus* root-boring beetle traps. 2012 Summer Scholars Program Undergraduate Research Poster Session. Geneva, NY, July 31, 2012.

Institutional and Departmental Service

Treasurer, Entomology & Nematology Student Organization at the University of Florida- 2018-2019 Academic Year

- Managed organizations bank account
- Managed fundraising events and inventory
- Oversaw application and review process of annual travel grant

Vice President, Frenatae, the University of Minnesota graduate student association- 2016-2017 Academic Year

- Assisted in organizing student meetings
- Managed graduate student organization website
- Coordinated annual honey sale

Professional Society Memberships

Entomological Society of America (ESA) - 2015-Present

Florida Mosquito Control Association (FMCA)- 2018-Present

Outreach and Extension Experience

Branford Public library, Branford, FL-Library Summer Camp: June 2019

Gave a hands on presentation to 30 children ranging from 5-10. Taught children basic insect and spider facts using live specimens.

Bug Camp, Gainesville FL- Mosquito Experiment: July 2018

Lead a summer camp activity for children ages 12-16, teaching them the basic design of a scientific experiment. Students worked with mosquitoes to form a hypothesis, collect and analyze data, and discuss results.

Ocala Country Days, Ocala, FL- Entomology Booth: November 2017

Operated an educational booth on insect biology, ecology and careers in entomology.

Midtown Farmers Market, Minneapolis, MN- Market Science: August 2016

Information and educational booth on pollinator and aquatic insect ecology.

Minnesota Shade Tree Short Course: March 2016

Served as a moderator for sessions presenting applied research on shade tree pest and disease management to state and private land managers

Minnesota State Fair- UMN Entomology Department Booth: August, 2015 & 2016

Annual event with educational games and display animals for children, as well as information on urban and agricultural pests for adults.

References

- Dr Daniel A Hahn, University of Florida, Professor of Entomology
(352)665-0557 dahahn@ufl.edu
- Dr Robert C Venette, USDA- Forest Service, Research Biologist
(651)649-5028 rvenette@fs.fed.us
- Dr Brian H Aukema, University of Minnesota, Professor of Entomology
(612)624-1847 bhaukema@umn.edu
- Dr Jim Walgenbach, North Carolina State University, Professor of Entomology
(828)684-3562 jim_walgenbach@ncsu.edu
- Dr Timothy Forrest, University of North Carolina at Asheville, Professor of Biology
(828)262-5150 tforrest@unca.edu