

Curriculum Vitae
Lily A. Deeter

Entomology, Department of Entomology and Plant Pathology, College of Agriculture and Life Sciences,
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CURRENT POSITION

Ph.D. Student, Graduate Research Assistant **June 2025–present**
Focus Area: Behavior, Ecology, Evolution, and Systematics
North Carolina State University, Department of Entomology and Plant Pathology
Co-advisors: Dr. Terri Billeisen and Dr. Gareth Powell

EDUCATION

B.Sc. of Horticulture Science **2021**
University of Florida, College of Agriculture and Life Sciences GPA: 3.84/4.0
Relevant coursework: Insect Classification, Principles of Entomology, Beekeeping, Insects and Plants,
Fundamentals of Plant-Pest Management

Associate in Arts **2017**
Saint Johns River State College GPA: 4.0/4.0

RELEVANT WORK EXPERIENCE

Biological Scientist II. Coccoidea and Aleyrodidae, Entomology Section, Bureau of Entomology,
Nematology and Plant Pathology, Florida State Collection of Arthropods, Division of Plant Industry,
Florida Department of Agriculture and Consumer Services: 2021–2025

Laboratory Technician I. Entomology Section, Division of Plant Industry, Florida Department of
Agriculture and Consumer Services. 2019–2021

Teaching Assistant. Environmental Horticulture Department, UF. 2019–2021

Tutor of Chemistry and English. St. Johns River State College Academic Support Center. Fall 2018.

PEER-REVIEWED PUBLICATIONS

7. **Lily A. Deeter**, Douglass R. Miller, Erin C. Powell, Matthew R. Moore. 2025. A new species of grass-infesting felt scale (Hemiptera: Coccoomorpha: Eriococcidae) with descriptions of all life stages and key to the adult female *Acanthococcus* Signoret of Florida, USA. *Zootaxa*. 5717 (2), 207–234.
6. Paul E. Skelley, Eileen A. Buss, Jade Allen, Sam Bolton, **Lily A. Deeter**, James C. Fulton, Deborah Greer, Susan E. Halbert, James Hayden, Matthew R. Moore, Catherine E. Nance, Erin Powell, Gareth S. Powell, Erick J. Rodriguez, Emily Roeder, Kyle E. Schnepf, Felipe N. Soto-Adames, Gary J. Steck, Elijah Talamas, Trevor Randall Smith. 2025. Adventive arthropods in Florida as reported by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry, 1990–2023. *Florida Entomologist*, 108 (1), pp. 20240027.
<https://doi.org/10.1515/flaent-2024-0027>

5. Erin C. Powell, **Lily A. Deeter**, Matthew R. Moore, Muhammad Z. Ahmed, Douglass R. Miller. 2024. Taxonomy, hosts, and distribution data of an emerging invasive mealybug, *Phenacoccus miruku* Tanaka and Choi (Hemiptera: Coccothraupidae: Pseudococcidae), in Florida. *Florida Entomologist*. 107(1). <https://doi.org/10.1515/flaent-2024-0024>
4. Alyssa L. Lucas, Erin C. Powell, **Lily A. Deeter**, Manoj Pandey. 2024. Invasive Chinese tallow tree serves as a new host for four scale insect species. *Florida Entomologist*. 107 (1) pp. 20230003. <https://doi.org/10.1515/flaent-2023-0003>
3. Erin C. Powell, Susan E. Halbert, **Lily Deeter** and Oliver Keller. 2023. An annotated and illustrated catalog of the primary type material of Hemiptera deposited in the Florida State Collection of Arthropods. *Zootaxa*. 5355 (1): 001–107.
2. **Lily A. Deeter** and Muhammad Z. Ahmed. 2023. The records of *Nipaeococcus viridis* (Newstead) (Hemiptera: Pseudococcidae) deposited in the Florida State Collection of Arthropods. *Insecta Mundi*. 0995: 1–8.
1. Muhammad Z. Ahmed and **Lily Deeter**. 2022. Rapid species-level hemolymph color test for all life stages of *Nipaeococcus viridis* (Newstead) (Hemiptera: Pseudococcidae), an invasive and regulatory pest in the United States. *Journal of Applied Entomology*, 146(4): 454-460.

OUTREACH PUBLICATIONS

- Erin. C. Powell, **Lily A. Deeter**, Douglass R. Miller. 2024. *Bambusaspis minuta* (Takahashi), a bamboo pit scale detected in central Florida. FDACS DPI Pest Alert FDACS-P-02226. <https://ccmedia.fdacs.gov/content/download/117565/file/PEST-ALERT-Bamboo-pit-scale.pdf>.
- Lily Deeter**. 2022. *Nipaeococcus viridis* (Newstead), lebeck mealybug, a new Florida Host record and new Florida County record. p. 7 in: G.S. Hodges and P.J. Anderson (Editors). *Tri-ology* 61(3).
- Susan E. Halbert, Matthew Moore, **Lily Deeter** and Douglass R. Miller. 2021. *Acanthococcus lagerstroemiae* (Kuwana), crapemyrtle bark scale, detected in the Florida Panhandle. FDACS DPI Pest Alert FDACS-P-01954. <https://www.fdacs.gov/content/download/98126/file/PESTALERT-Crapemyrtlebarkscale01954.pdf>.

PRESENTATIONS & POSTERS

- 2025 **Lily Deeter**, Erin Powell, Matthew Moore, Douglass Miller. 2025. A new grass-infesting felt scale insect (Hemiptera: Eriococcidae): orally presented to the Center for Systematic Entomology, Gainesville, Florida
- 2024 **Lily Deeter**, Erin Powell, Matthew Moore, Zee Ahmed, Dug Miller. 2024. An adventive *Phenacoccus* mealybug (Hemiptera: Pseudococcidae) in Florida and its taxonomic challenges: orally presented to the Florida Entomological Society Annual Meeting, North Florida Research and Education Center, Quincy, Florida
- 2023 Kyle E. Schnepf, Mayumi A. Needham, **Lily A. Deeter**, Gareth S. Powell. 2023. The impact of research associates on the growth of the Florida State Collection of Arthropods: poster presented at the Entomological Collections Network Annual Meeting, National Harbor, Maryland
- 2021 **Lily Deeter**, Muhammad Z. Ahmed. 2021. Color Test of Lebeck Mealybug, *Nipaeococcus viridis* (Newstead): orally presented to the Center for Systematic Entomology, Gainesville, Florida
- 2020 **Lily Deeter**, Muhammad Z. Ahmed. 2020. Evaluating a rapid identification method for the newly emerging citrus pest in Florida, lebeck mealybug, *Nipaeococcus viridis* (Coccoidea: Pseudococcidae): orally presented to the Center for Systematic Entomology, Gainesville, Florida

TEACHING EXPERIENCE

Invited Lectures/Presentations

- 2025 *Hemiptera*. ENT425: General Entomology, North Carolina State University
 Slide Mounting ENT425: General Entomology, North Carolina State University
2023 *Coccoidea Diagnostics & Slide Mounting*, ENY6942: Insect Diagnostics, Uni. of Florida
2018 & 2021 *Coccoidea Slide Mounting*, ENY6942: Insect Diagnostics, University of Florida

Trainings/Workshops Given

- 2021–2024 *Whitefly field collection and sample submission*. FDACS DPI New Inspector Training classes #93, #95, #96, and #97
2021 & 2024 *Mealybug and Scale Insect field collection and sample submission*. FDACS DPI New Inspector Training classes #92 and #98, Withlacoochee Training Center, Brooksville, FL
2024 *Slide Mounting and Mailroom Sample Processing*. Florida Agricultural and Mechanical University NextGen Program, Management of Invasive Species, at FDACS DPI

University of Florida

- 2020 *Teaching Assistant*, ORH3513C: Environmental Plant Identification and Use, HOS5117C: Horticultural Plant Morphology

St. Johns River State College

- 2018 *Tutor*, Chemistry & English, SJRSC Tutoring Center

WORKSHOPS/TRAINING COMPLETED

- 2025 NCDA Public Pesticide Applicator, Ornamental and Turf License
2023 Curation of Microscope Slides: Mounting Media, Conservation, and Digitization, hybrid conference at the Museum für Naturkunde Berlin (attended online)
2022 Entomological Collections Management Workshop at the Arizona State University Hasbrouck Insect Collection by David Furth and Floyd Shockley
2017 UF IFAS Master Gardener Program at the St. Johns County UF IFAS Extension Office by Terra Freeman and other UF IFAS Extension staff

AWARDS AND HONORS

- 2021 Citation of Special Recognition, FDACS Division of Plant Industry
2020–2021 Florida Fertilizer and Agrichemical Association Scholarship Recipient
2020 Harry R. Manee, Sr. Scholarship Recipient
2020 Phelps Foundation Scholarship Recipient
2020 Hughes Estate Scholarship Recipient
2017 Chemistry Department Award, St. Johns River State College
2017 Phi Theta Kappa Honor Society, St. Johns River State College
2016–2021 Florida Academic Scholars Award Recipient

FIELDWORK (Extensive Insect Surveys) **totaling 40 days**

- 2025 North Carolina (5 counties)
2023 Florida Keys (Lime Swallowtail Survey), FL
 Archbold Biological Station, FL
 California (4 counties)
2022 Arizona (6 counties)

COLLECTIONS STUDIED totaling 12 days*

*Collections where a position was held were excluded from total days

Archbold Biological Research Station Arthropod Collection, Venus, FL (ABSC) 2022

ASU Hasbrouck Insect Collection, Tempe, AZ (ASUHIC) 2022

Audubon Society Insectarium, New Orleans, LA 2023

Denver Museum of Nature & Science, Denver, CO (DMNS-Ento) 2025

*Florida State Collection of Arthropods, Gainesville, FL (FSCA) 2019–2025

Milwaukee Public Museum Invertebrate Zoology Collections, Milwaukee, WI (MPM) 2023

Santa Barbara Museum of Natural History Entomology Collection, Santa Barbara, CA (SBNHM) 2023

*North Carolina State University Insect Collection, Raleigh, NC (NCSU) 2024–present

Virginia Polytechnic Institute and State University Insect Collection, Blacksburg, VA (VTEC) 2025

PROFESSIONAL SOCIETIES

2025–present Society for the Preservation of Natural History Collections (SPNHC), member

2025–present Entomological Society of America (ESA), member

2025–present North Carolina Entomological Society (NCES), member

2025–present Florida State Collection of Arthropods (FSCA), Research Associate

2025–present Society of Systematic Biologists (SSB), member

2023–present Entomological Collections Network (ECN), member

2023–present Center for Systematic Entomology (CSE), member

PROFESSIONAL SERVICE

2023, 2024 Journal Referee, *Florida Entomologist*

2022, 2023 Assisted in grading final insect collections for Dr. Andrea Lucky's Insect Classifications course (ENY 4161, 6166) at UF

2019 Herbarium Volunteer, UF Herbarium/Florida Museum, Gainesville, FL

COMMUNITY OUTREACH

2023–2025 Gave tours of FSCA, largest arthropod collection in Southeastern United States

2024–2025 Coordinated staff and organized displays for FDACS DPI Entomology booth at the Florida State Fair Insect Encounters Showcase, the Department's largest outreach event
2024 Trained FAMU NextGen students on regulatory entomology procedures, processing and slide mounting

2022–2023 Tabled at FDACS DPI Entomology display at the Florida State Fair, Insect Encounters Showcase

2017–2020 Master Gardener Volunteer, UF IFAS Extension Offices in St. Johns & Alachua Counties. Answered questions from the public about their landscapes, identified weeds and pests, performed soil pH tests, and maintained demonstration gardens

2019 Bug Camp Counselor, University of Florida, Entomology and Nematology Department