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 SES. 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: Coccomorpha: Eriococcidae) with descriptions of all life stages and key to the adult female *Acanthococcus* Signoret of Florida, USA. *Zootaxa*. 5717 (2), 207–234. https://doi.org/10.11646/zootaxa.5717.2.3

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. Schnepp, 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), 1–87. 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: Coccomorpha: Pseudococcidae), in Florida. *Florida Entomologist*. 107(1). 1–11. 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), 1–5. 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), 1–107. https://doi.org/10.11646/zootaxa.5355.1.1

2. **Lily A. Deeter** and Muhammad Z. Ahmed. 2023. The records of *Nipaecoccus 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 *Nipaecoccus viridis* (Newstead) (Hemiptera: Pseudococcidae), an invasive and regulatory pest in the United States. *Journal of Applied Entomology,* 146(4), 454-460. https://doi.org/10.1111/jen.12985

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. *Nipaecoccus viridis* (Newstead), lebbeck 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

Conference Presentations

2026 **Lily Deeter**, Kyle Schnepp, Gareth Powell. 2026. Reorganization of the NCSU Slide Collection. Center for Systematic Entomology CSE, Gainesville, Florida

2025 **Lily Deeter**, Erin Powell, Matthew Moore, Douglass Miller. 2025. A new grass-infesting felt scale insect (Hemiptera: Eriococcidae). 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. Florida Entomological Society Annual Meeting, North Florida Research and Education Center, Quincy, Florida

2021 **Lily Deeter**, Muhammad Z. Ahmed. 2021. Color Test of Lebbeck Mealybug, *Nipaecoccus viridis* (Newstead). 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, lebbeck mealybug, *Nipeacoccus viridis* (Coccoidea: Pseudococcidae). Center for Systematic Entomology, Gainesville, Florida

Extension Presentations

2026 Terri Billeisen, **Lily Deeter**, Mike DeLuca. 2026. From Drones to Traps: Comprehensive Monitoring of Turfgrass Insects. Lake Wheeler Turfgrass Field Day, Raleigh, North Carolina

POSTERS

2026 **Lily A. Deeter**, Kyle E. Schnepp, Gareth S. Powell. 2026. Slide Into the Archives: A Look Inside the Microscope Slide Collection of the NCSU Insect Museum. 5th Annual Carolina Biodiversity Collaborative Symposium, Chapel Hill, North Carolina

2023 Kyle E. Schnepp, 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. Entomological Collections Network Annual Meeting, National Harbor, Maryland

TEACHING EXPERIENCE

Invited Lectures

2025–2026 *Sternorrhyncha Slide Mounting Lab* ENT502: Insect Diversity, NCSU
2025 *Hemiptera.* ENT425: General Entomology, NCSU
2023 *Coccoidea Diagnostics & Slide Mounting*, ENY6942: Insect Diagnostics, UF
2018 & 2021 *Coccoidea Slide Mounting*, ENY6942: Insect Diagnostics, UF

Trainings/Workshops Given

2021–2024 *Whitefly field collection and sample submission*. FDACS DPI New Inspector Training classes #93, #95, #96, and #97
2021 & 2024 *Whitefly 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 (FAMU) 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 Thera Kappa Honor Society, St. Johns River State College

2016–2021 Florida Academic Scholars Award Recipient

FIELDWORK (Extensive Insect Surveys) **totaling 45 days**

2025–2026 **North Carolina** (12 counties)
2026 **Colorado** (Pawnee National Grasslands)
2025 **Nevada**
2023 **Florida** (Key West Lime Swallowtail Survey; Archbold Biological Station)
California (4 counties)
2022 **Arizona** (6 counties)

COLLECTIONS STUDIED **totaling 13 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

MEDIA COVERAGE

2026 A New Scale Insect with Lily Deeter. New Species Podcast: https://creators.spotify.com/pod/profile/newspeciespodcast/episodes/A-New-Scale-Insect-with-Lily-Deeter-e3n94l7

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

2026 NCSU DEPP Seminar Committee Graduate Student Representative
2023, 2024 Journal Referee, *Florida Entomologist*
2022, 2023 Assisted grading final insect collections for ENY 4161, 6166, Insect Classifications, UF
2019 Herbarium Volunteer, UF Herbarium & Florida Museum, Gainesville, FL

COMMUNITY OUTREACH

2026–present NCSU Entomology Graduate Student Association Outreach Coordinator B: maintains outreach arthropods and insect colonies, managed undergraduate volunteers
2025–present Guided tours of NCSU Insect Museum

2023–2025	Guided tours of FSCA, largest arthropod collection in Southeastern United States
2024–2025	Coordinated staff and planned displays and engagement materials for FDACS DPI Entomology booth at the Florida State Fair Insect Encounters Showcase, the Division'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