

James T. Brown, PhD

EDUCATION

2024 PhD Entomology, University of Florida, Gainesville, FL.

Advisor: Dr. Oscar Liburd

- Dissertation: An Ecological Evaluation of *Drosophila suzukii* (Diptera: Drosophilidae) in Conventional, Organic, and Natural Systems with Implications for IPM decision-making

2019 MS Entomology, University of Florida, Gainesville, FL.

Advisor: Dr. Dan Hahn

- Thesis: The Association between lipid stores and diapause genotype among European corn borers, *Ostrinia nubilalis* (LEPIDOPTERA: CRAMBIDAE)

2010 BS Biological Sciences, University of Maryland - College Park, College Park, MD.

ACADEMIC APPOINTMENTS

2024-Present Postdoctoral Research Scholar, University of California, Berkeley, Parlier, CA.

2020-2024 Graduate Teaching Assistant, Natural Area Teaching Lab, University of Florida, Gainesville, FL.

GRANTS AND FELLOWSHIPS

GRANTS

2020-2024	University of Florida Provost Steinmetz Endowment	\$115,941
2022	Entomological Society of America Southeastern Branch Student Competition	\$100
2016	University of Florida ENSO Travel Grant	\$500

MENTEE GRANTS

2023	Entomology and Nematology Travel Scholarship (Linval Maragh)	\$900
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FELLOWSHIPS

2025-Present	Science Policy Fellow, Entomological Society of America, Annapolis, MD.	est. \$4000
2016-2019	Student Trainee, USDA-ARS Pathways Internship Program, Gainesville, FL.	\$83,625

PUBLICATIONS

Brown, J.T., Lopez, M., and Daane, K.M., 2025. Efficacy of PREV-AM and Assail for vine mealybug management on grapevine trunks, 2024. Arthropod Management Tests, 50(1).

Brown, J.T., Tanner, J., Lopez, M., and Daane, K.M., 2025. Evaluating the application interval of in-season drip and foliar insecticides for vine mealybug management in grapes, 2024. Arthropod Management Tests, 50(1).

- Brown, J.T.**, Lopez, M., and Daane, K., 2025. Comparison of drip and foliar-applied insecticides for mealybug management in grapes, 2024. *Arthropod Management Tests*, 50(1).
- Flores, C.J., Henry, E.E., **Brown, J.T.**, and Daane, K.M., 2025. Novel insecticide for green stink bug management in pomegranates, 2024. *Arthropod Management Tests*, 50(1).
- Brown, J.T.** and Gillett-Kaufman, J.L., 2024. Cranberry Fruitworm *Acrobasis vaccinii* Riley (Lepidoptera: Pyralidae). EENY-759/IN1306. University of Florida IFAS Extension.
- Meagher, R.L., **Brown, J.T.**, Miller, N., Fleischer, S.J., Bowers, K., Hight, S.D., Legaspi, J.C., Brown, R.C., Nagoshi, R.N., and Wright, D.L., 2023. Comparison of carabid densities in different cover crop species in north Florida. *Florida Entomologist*, 106(4), pp.220-229.
- Meagher, R.L., Nagoshi, R.N., Fleischer, S.J., Westbrook, J.K., Wright, D.L., Morris, J.B., **Brown, J.T.**, and Rowley, A.J., 2022. Areawide management of fall armyworm, *Spodoptera frugiperda* (Lepidoptera: Noctuidae), using selected cover crop plants. *CABI Agriculture and Bioscience* 3. 1-10.
- Meagher Jr, R.L., Watrous, K.M., Fleischer, S.J., Nagoshi, R.N., **Brown, J.T.** and Westbrook, J.K., 2021. Comparison of bee composition in sunn hemp and other cover crops. *Florida Entomologist* 103(4). 419-424.
- Meagher Jr, R.L., Watrous, K.M., Fleischer, S.J., Nagoshi, R.N., **Brown, J.T.**, Bowers, K., Miller, N., Hight, S.D., Legaspi, J.C., and Westbrook, J.K., 2019. Documenting potential Sunn Hemp (*Crotalaria juncea* L.) (Fabaceae) pollinators in Florida. *Environmental Entomology* 48(2). 343-350.
- Meagher, R.L., Nagoshi, R.N., **Brown, J.T.**, Fleischer, S.J., Westbrook, J.K., and Chase, C.A., 2017. Flowering of the cover crop sunn hemp, *Crotalaria juncea* L. *HortScience* 52(7). 986-990.
- Rabinowitz, R., Rowley, A.L., **Brown, J.T.**, Meagher, R.L., and Bala, R., 2015. Feeding deterrence and inhibitory effects of bee balm (*Monarda didyma*) leaves on fall armyworm. In *Proceedings of the Florida State Horticultural Society* 128. 162-165.
- PEER-REVIEWED MANUSCRIPTS (submitted or in preparation)**
- Brown, J.T.**, Wong, C.N., Liburd, O.E. Attraction of *Drosophila suzukii* (Diptera: Drosophilidae) to yeast-baited Scentry® traps in commercially managed southern highbush blueberry field. *In prep.*
- Brown, J.T.**, Beck, J., Meagher, R.L., Hahn, D.A. The Role of Photoperiod and Diapause Genotype in *Ostrinia nubilalis* (Lepidoptera: Crambidae) lipid accumulation and depletion. *In prep.*
- Brown, J.T.**, Lopez, M., and Daane, K.M., 2025. In-Season Foliar Application of Sefina Insecticide for Mealybug Management in Grapes, 2025. *Arthropod Management Tests*. *(submitted)*
- Zhu, G., Wang, X., Beers, E.H., Rodriguez-Saona, C., Collins, J., Walsh, D.B., Smytheman, P., Diehl, B., Nottingham, L.B., Demchak, K., Hamby, K., Daane, K.M., **Brown, J.T.**, Hogg, B.N., Levenson, H.K., Lee, J.C., Walton, V.M., Ragozzino, M., and Crowder, D. Linking habitat suitability and phenology models to guide nationwide biological control of an invasive pest. *Entomologia Generalis*. *(submitted)*.

EXTENSION TALKS

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- 2025 **Brown J.T.**, and Daane, K.M. "Spotted wing drosophila classical biological control using *Ganaspis kimorum*" Bio-solutions Conference and Expo. Parlier, CA.
- 2025 **Brown J.T.**, and Daane, K.M. "Spotted wing drosophila classical biological control using *Ganaspis kimorum*" Delegation from the Spanish Agriculture Technology Industry. Parlier, CA.
- 2025 Fanning, P., Johnson, B., **Brown. J.T.**, and Rodriguez-Saona, C. "Integrating Classical Biological Control for Spotted-wing Drosophila" OREI Annual Stakeholders Meeting [virtual].

- 2025 Perry, R., **Brown, J.T.**, Daane, K.M. "Areawide Project Update for Edna Valley Grape Growers". (virtual)
- 2024 Perry, R., **Brown, J.T.**, Daane, K.M. "Areawide Project Update for Edna Valley Grape Growers". (virtual)
- 2024 Zhuang, G., Lund, K., Angeles, J., Daane, K.M., **Brown, J.T.**, and Haviland, D. "Summer Vine Mealybug Management, Grapevine Pest and Disease Management" Field Day. Fresno, CA.

CONFERENCE TALKS (*invited unless otherwise annotated*)

- 2025 **Brown, J.T.**, and Daane, K.M. "Managing vine mealybug in California's Central Coast and Central Valley – what works and what still needs work" ESA Pacific Branch Meeting, Salt Lake City, UT.
- 2024 **Brown, J.T.**, and Liburd, O.E. "Empowering Pest Management: Biological Control Strategies Against Spotted-Wing Drosophila" (Panelist), ESA Annual Meeting, Phoenix, AZ.
- 2023 **Brown, J.T.**, and Liburd, O.E. "Towards the biocontrol of *Drosophila suzukii* in North Central Florida Natural Areas Using *Ganaspis brasiliensis*" ESA Annual Meeting, National Harbor, MD.
- 2023 **Brown, J.T.**, and Liburd, O.E. "Advancements Towards the Biocontrol of *Drosophila suzukii* in North Central Florida Natural Areas Using *Ganaspis brasiliensis*". ESA Southeastern Branch, Little Rock, AK. (*presented on behalf of Arden Lambert*)
- 2023 **Brown, J.T.**, Lambert, A., and Liburd, O.E. "Biological Control of *Drosophila suzukii* using entomopathogenic nematodes". ESA Southeastern Branch, Little Rock, AK.
- 2022 **Brown, J.T.**, Wong, C.N., and Liburd, O.E. "*Drosophila suzukii* Preference to Scentry® Traps Baited with Yeast and Commercial Lures in Field and in the Lab". Entomological Society of America, Vancouver, BC.
- 2022 **Brown, J.T.**, Wong, C.N., and Liburd, O.E. "Measuring the Response of *Drosophila suzukii* to Yeast Baited Scentry® traps". Florida Entomological Society, Gainesville, FL.
- 2022 **Brown, J.T.**, Wong, C.N., and Liburd, O.E. "Comparing the response of *Drosophila suzukii* to Scentry® traps baited with yeast and commercial lures". ESA Southeastern Branch Meeting. San Juan, PR. (student competition)
2021. **Brown, J.T.** "I'm here and I'm queer: At the intersection of being an openly gay scientist and an advocate for civil rights". ESA Southeastern Branch. (virtual).
- 2018 **Brown, J.T.**, Meagher, R.L., Beck, J., Hahn, D.A. "The relationship between diapause preparation and diapause length: A possible target for European corn borer management". American Chemical Society Conference AGRO Division. Boston, MA.

MENTORING & OUTREACH

UNDERGRADUATE STUDENT MENTORING

- 2024-2025 Experimental design, data collection, and data analysis to determine the efficacy of a novel pesticide. Undergraduate researchers: Carlos Flores and Emily Henry
- 2023-2024 Lab bioassay response of *Ganaspis brasiliensis* to organic-certified insecticides. Undergraduate researcher: Alex Maragh.
- 2017-2018 *Ostrinia nubilalis* lipid extraction and quantification using analytical chemistry techniques. USDA-ARS Chemistry Research Unit. Undergraduate researchers: Maggie Anderson, Erin Lapasaran, and Jeremiah Martinez.

GRADUATE STUDENT MENTORING (3)

2020 Trained graduate students on aseptic techniques to remove fruit-associated microbes from blueberries, DNA extraction, quantification, and PCR preparation and parasitoid rearing using pests and intact fruit.

OUTREACH

2024 Panelist, Classroom Undergraduate Research Experience (CURE) Panel Discussion. Entomology and Nematology Department, Gainesville, FL.

2024 Exhibitor, "Party for the Planet" Santa Fe Teaching Zoo, Gainesville, FL.

2023 Host, Florida Ecology and Biodiversity Tour. Department of Classics, UF Honors Course. Gainesville, FL. (20 participants)

2023 Host, Save the Earth's Environment through Knowledge. University of Florida Center for Precollegiate Education and Training (CPET). (50 participants).

2023 Panelist, "Navigating Graduate School Panel". iDigTRIO Biological Career Conference & Fair. Gainesville, FL.

2023 Panelist, "Applying for your future". Natural Resources Diversity Initiative. (virtual).

2023 Volunteer, UF Entomology Bug Zoo and Liburd Lab Outreach. Florida State Fair. Tampa FL.

2023 Panelist, "Graduate School and Research Careers". Classroom Undergraduate Research Experience (CURE) Panel Discussion. Entomology and Nematology Department, Gainesville FL.

2022 Host, Florida Ecology and Biodiversity Tour, Girl Scouts Troop 1247, Gainesville, FL. (15 participants).

2022 Panelist, "NRDI's Queer in Nature Panel". Natural Resources Diversity Initiative. Gainesville, FL.

2022 Panelist, "Graduate School and Research Careers". Classroom Undergraduate Research Experience (CURE) Panel Discussion. Entomology and Nematology Department, Gainesville FL.

2021 Host, Florida Ecology and Biodiversity Tour. UF Entomology and Nematology Ghost-BUGsters 4-H Camp. Gainesville, FL. (24 participants)

2021 Host, Florida Ecology and Biodiversity Tour. Classical Conversations Home School Group. Gainesville, FL. (25 participants)

2021 Panelist, "Diversity in Research" Panel Discussion. iDigTRIO Biological Career Conference & Fair. (virtual).

2020 Panelist, "Graduate School and Research Careers". Classroom Undergraduate Research Experience (CURE) Panel Discussion. Entomology and Nematology Department, Gainesville FL.

2022 Panelist, "Diversity in Research" Panel Discussion. iDigTRIO Biological Career Conference & Fair. (virtual).

2020 Host, Black Homeschoolers of Central Florida, Gainesville, FL. (20 participants)

2016 Volunteer, Ocali Days Volunteer: Entomology Outreach, Ocala, FL.

SERVICE & AFFILIATIONS

SERVICE

REVIEWER: Tian, Y., Zhang, J., Xu, Y., Li, J., Chen, Y., Ren, H., Meng, G., Chen, G. and Zhang, X., 2025. Sublethal effects of spinetoram on the functional response of *Drosophila* parasitoid *Trichopria drosophilae* (Hymenoptera: Diapriidae) and its potential for biological control. *Journal of Economic Entomology*, 118(5), pp.2012-2021.

REVIEWER: Chino-Cantor, A., Vargas-Tovar, J.A., Venegas-Barrera, C.S., Guzmán-Martínez, M., Martínez-Lara, F. and Azuara-Domínguez, A., 2025. Comparative evaluation of the infestation of five varieties of citrus by the larvae of *Anastrepha ludens* (Diptera: Tephritidae). *Florida Entomologist*, 108(1), p.20250010.

2023 UF Science Policy Advocate, ESA Swarm the Hill, Washington, DC.

2022-2023 Co-Creator/President, Make it Count Peer Mentoring Program, University of Florida, Gainesville, FL.

2022 Student Member, Diversity, Equality, and Inclusion Committee, University of Florida, Gainesville, FL.

2022 Student Member, Communications Committee, University of Florida, Gainesville, FL.

2022 Student Member, Search Committee for the Assistant Professor of Insect Molecular Ecology, University of Florida, Gainesville, FL.

2022 Creator/Moderator, Making a Minority Podcast Club, University of Florida, Gainesville, FL. <https://makingaminority.weebly.com/>

2021 Student Representative, Entomology and Nematology Department Prospective Student Open House, University of Florida, Gainesville, FL.

2021-2023 Host, New Moon Insect Collection Events, monthly. UF NATL. Gainesville, FL.

2020-2023 Vice President, Pride Community Center of North Central Florida, Gainesville, FL.

2020-2021 Editor, UF Entomology and Nematology Department Newsletter. Gainesville, FL.

2016-2017 President, UF Entomology and Nematology Student Organization, University of Florida, Gainesville, FL.

AFFILIATIONS

Entomological Society of America, Member.

American Chemical Society, Member