

CHELSEA MIRANDA

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EDUCATION

Postdoctoral Research Associate, *Texas A&M University*, AgriLife (SP. 2022- Present)

Institute for Advancing Health Through Agriculture

PhD in Entomology, *Texas A&M University* (2019)

Dissertation title: Life-history traits of black soldier flies, *Hermetia illucens* (L.) (Diptera: Stratiomyidae) house flies, *Musca domestica* L. (Diptera: Muscidae) fed three manure types

GPA: 3.88

MS in Agriculture and Environmental Science, *Tarleton State University* (2014)

BS in Entomology, *Texas A&M University* (2011)

PUBLICATIONS

1. **Miranda, C.D.**, Cammack, J.A., and Tomberlin, J.K. Large-scale production of house fly, *Musca domestica* L. (Diptera: Muscidae) larvae fed three manure types. Submitted for review to the *Journal of Economic Entomology*. February 2023.
2. Tomberlin, J.K., **Miranda, C.D.**, Flint, C.A., and Harris, E. Nutrients limit production of insects produced for food and feed: An emphasis on nutritionally essential amino acids. Under revision, *Animal Frontiers*. February 2023.
3. Meneguz, M., **Miranda, C. D.**, Cammack, J. A., and Tomberlin, J.K. Adult Behavior as the next frontier for optimizing industrial production of the black soldier fly *Hermetia illucens* (L.) (Diptera: Stratiomyidae). *Journal of Insects as Food and Feed* **2022**, in press <https://doi.org/10.3920/JIFF2022.0055>
4. Cammack, J. A., **C. D. Miranda**, H. R. Jordan, J. K. Tomberlin. Upcycling of manure with insects: Current and future prospects. *Journal of Insects as Food and Feed* **2021**, 1-16. doi 10.3920/JIFF2020.0093.
5. **Miranda, C. D.**, T. L. Crippen, J. A. Cammack, J. K. Tomberlin. Black soldier fly, *Hermetia illucens* (L.) (Diptera: Stratiomyidae), and house fly, *Musca domestica* L. (Diptera: Muscidae), larvae reduce livestock manure and possibly associated nutrients: An assessment at two scales. *Environmental Pollution* **2021**, 282, doi: 10.1016/j.envpol.2021.116976
6. **Miranda, C. D.**, J. A. Cammack, J.K. Tomberlin. Mass production of the black soldier fly, *Hermetia illucens* (L.), (Diptera: Stratiomyidae) reared on three manure types. *Animals* **2020**, 10, 1-11. doi: 10.3390/ani10071243.
7. **Miranda, C. D.**, J. A. Cammack, J.K. Tomberlin. Life-history traits of the black soldier fly, *Hermetia illucens* (L.) (Diptera: Stratiomyidae), reared on three manure types. *Animals* **2019**, 9, 281. doi: 10.3390/ani9050281.
8. **Miranda, C. D.**, J. A. Cammack, J.K. Tomberlin. Life-history traits of the house fly, *Musca domestica* L. (Diptera: Muscidae), reared on three manure types. *Journal of Insects as Food and Feed* **2019**, 1-10. doi:10.3920/jiff2019.0001.

PUBLICATIONS CONTINUED

9. **Miranda, C. D.**, J. A. Cammack, J.K. Tomberlin. Interspecific competition between the house fly, *Musca domestica* L. (Diptera: Muscidae) and black soldier fly, *Hermetia illucens* (L.) (Diptera: Stratiomyidae) when reared on poultry manure. *Insects* **2019**, 10, 440. doi: 10.3390/insects10120440.
10. Beskin, K. V., **Holcomb, C. D.**, Cammack, J. A., Crippen, T. L., Knap, A. H., Sweet, S. T., and Tomberlin, J. K. Larval digestion of different manure types by the black soldier fly (Diptera: Stratiomyidae) impacts associated volatile emissions. *Waste Management* **2018**, 74, 213-220. doi: 10.1016/j.wasman.2018.01.019
11. Tomberlin, J.K., **Holcomb, C.**, and van Leeuwen, S. K. Industrialization of house fly production for livestock feed. *Insects as food and feed: from production to consumption*. **2017**. 249-257.

GRANTS AWARDED

1. United States Department of Agriculture, National Institute of Food and Agriculture. 2023-2025. \$618,841.00. Sustainable insect farming contributing to food, water and energy security. Dr. Anjel Helms (co-PI), Texas A&M University; Heather Jordan (co-PI), Mississippi State University. *I could not serve as a principal investigator as a Postdoctoral Research Associate, but I helped develop the grant and contributed to its intellectual merit.*

TEACHING EXPERIENCE

1. Graduate Teaching Consultant, Center for Teaching Excellence, *Texas A&M University* (FA. 2017-SP. 2018)
 - Provided instruction to new teaching assistants
 - Assisted development of teaching portfolios for new and prospective teaching assistants
 - Performed classroom observations and provided feedback for improvement
 - Delivered professional development workshops
2. Graduate Teaching Assistant/ Co-Instructor (SP. 2017), *Insects in Human Society, Forensic Entomology Texas A&M University* (SU. 2015- SP.2018)
 - Provided in-class and online instruction for fall, spring, and summer semesters
 - Created assignments, quizzes, and tests in university online portal (eCampus)
 - Graded writing assignments and projects
 - Utilized classroom technologies (Peerceptive and TopHat)

PROFESSIONAL DEVELOPMENT, SERVICES, AND AWARDS

1. Second Place Flash Talk, Sixth Annual Postdoctoral Research Symposium, *Texas A&M University* (FA. 2022)
2. Aggie ACHIEVE Mentor, *Texas A&M University* (FA. 2022)
3. POWER Writing Consultant, College of Education and Human Development, *Texas A&M University* (SP 2017-2018)
4. Teaching Assistant of the Year, Aggie Forensic and Investigative Science Organization, *Texas A&M University* (SP. 2015)
5. Featured Graduate Researcher, Department of Wildlife, Sustainability, and Ecosystem Sciences, *Tarleton State University* (SP. 2014)

