**Danielle D. Gray**

TAMU 2475, Department of Entomology, Texas A&M University, College Station, TX

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Education

Master of Science in Entomology, Department of Entomology, Texas A&M University, College Station, TX

Tentative thesis title: Rice stink bug pyrethroid resistance in the Texas Coastal Bend, two potential alternative insecticides options, and non-target effects of alternatives on natural enemies of sorghum aphid.

Major Advisor: Dr. Dalton Ludwick (Chair)

Committee members: Dr. Michael Brewer (Co-chair), Dr. Joshua McGinty

GPA: 3.5

Expected date of completion: December 2023

Bachelor of Science in Biology, Department of Biological Sciences, Sam Houston State University, Huntsville, TX

 Undergraduate mentor: Dr. Amber Ulseth

 GPA: 3.52, *cum laude*

 Date of completion: May 2021

**Experience**

June 2021 – Current

Graduate Extension Assistant, Department of Entomology, Texas A&M University

**August 2019 - May 2021**

**Student Assistant**

**Stream and River Biogeochemistry Lab, Dr. Amber Ulseth, Sam Houston State University**

* Assisted on NSF funded project titled TERGG: Thresholds in ecosystem responses to rainfall gradients.
* Collected data at multiple sites across the Texas Coastal Bend for calculating stream metabolism and nutrient cycling
* Maintenance of in-stream data loggers

August 2019 - May 2021

Teaching Assistant

Department of Biological Sciences, Sam Houston State University

* Created lesson plans and lab assignments for General Ecology (BIOL 3409)
* Taught weekly lab lessons and facilitated lab procedures at the Pineywoods Environmental Research Laboratory (PERL)
* Provided feedback and grades for student coursework
* Implemented changes to lab protocols and assignments to improve student experience

Awards and Honors

* John A. Jackman Endowed Scholarship: 2022-2023
* George T Handyside Scholarship: 2020-2021, 2021-2022, 2022-2023
* 1st place in Poster Session, Texas Plant Protection Conference
* 2nd place at the 2022 Southwestern Branch Entomology Games
* Raven Scholar: 2020 and 2021

Grants

* $1,000 – To develop a mentor-mentee research symposium in the Department of Entomology. Texas A&M University ***Good Bull*** fund to Aggie Women in Entomology

Presentations

**Oral Presentations**

**Gray, D. D.**, Biles, S., Crumley, K., Brown, S., Mays, T., Kerns, D. L., & Ludwick, D. C. (2022, November).

*Non-target effects of three insecticides on the natural enemy community of grain sorghum and secondary pest outbreaks*. Entomological Society of America Joint Annual Meeting, Vancouver, Canada.

**Gray, D. D.**, Biles, S., Crumley, K., Brown, S., Mays, T., Kerns, D. L., & Ludwick, D. C. (2022, April). *Investigating pyrethroid resistance in the rice stink bug Oebalus pugnax (F.) and insecticide options for sorghum management in Texas.* Entomological Society of America Southwestern Branch Conference, Fort Worth, Texas.

**Gray, D. D.**, Biles, S., Crumley, K., Brown, S., Mays, T., Kerns, D. L., & Ludwick, D. C. (2022, January*). Evaluating Pyrethroid Resistance in Oebalus Pugnax (F.) in the Texas Coastal Bend.* Beltwide Cotton Conference, San Antonio, Texas.

**Gray, D. D.**, Biles, S., Crumley, K., Brown, S., Mays, T., Kerns, D. L., & Ludwick, D. C. (2021, November). *Evaluating reported control failures of Oebalus pugnax in southeast Texas due to lambda-cyhalothrin resistance.* Entomological Society of America Conference, Denver, CO.

**Poster Presentations**

**Gray, D. D.**, Biles, S., Crumley, K., Brown, S., Mays, T., Kerns, D. L., & Ludwick, D. C. (2021, December). Investigating rice stink bug pyrethroid resistance and insecticide options for sorghum management in Texas and Louisiana. Texas Plant Protection Conference, Bryan, Texas.

Service

**2022 – Present**

**Vice President,** Aggie Women in Entomology, College Station, Texas

**January 2023-April 2023**

**Organizer/Chair,** Texas A&M Department of Entomology Mentor-Mentee symposium, College Station, Texas

**January 2022-November 2022**

**Organizer,** Highlighting Women's Research: Abiotic and Biotic Stressors of Agricultural Food-systems symposium at the 2022 Entomological Society of America Joint Annual Meeting, Vancouver, Canada

**June 2022**

**Organizer,** UpGoer5, Aggie Women in Entomology

* Student competition, awarded three $500 travel awards to graduate students in the Department of Entomology

**April 2022**

 **Volunteer**, Entomological Society of America Southwestern Branch meeting, Fort Worth, Texas.

Professional Organizations

**May 2021-present**

Entomological Society of America, Member

**May 2021-present**

Ecological Society of America, Member