## I. Academic/Professional Background

### A. Basic information

Merritt Drewery
Associate Professor, Animal Science
Department of Agricultural Sciences
Texas State University

PhD 2017 Louisiana State University Nutrition & Food Science

*Dissertation:* Maternal fatty acid and inflammatory status during pregnancy are related to infant heart rate and heart rate variability

MS 2012 Texas A&M University Animal Science

*Thesis:* Post-extraction algal residue as a protein supplement to cattle consuming forage

BS 2010 Texas A&M University Animal Science

### B. University Experience

Associate Professor
Department of Agricultural Sciences
Texas State University
September 2025 – present
Appointment: 75% teaching, 25% research

Assistant Professor
Department of Agricultural Sciences
Texas State University
August 2019 – August 2025
Appointment: 75% teaching, 25% research

Research Assistant
Department of Nutrition & Food Sciences
Louisiana State University
January 2013 – August 2017

Research Assistant & Laboratory Manager
Department of Animal Science
Texas A&M University
January 2011 – December 2012

Teaching Assistant
Department of Animal Science
Texas A&M University
August 2011 – December 2012

### C. Relevant Professional Experience

Nutrition, Research, & Quality Supervisor
Grober Nutrition, LLC
August 2017 – July 2019

**D. Other Professional Credentials (licensure, certification, etc.)**

1. Institutional Biosafety Committee Member Training. CITI Program.
2. USF Grant Writing Certificate. University of South Florida, Corporate Training & Education Program.
3. Principal Investigator or Key Personnel participating in NSF, NIH, or USDA funded research. CITI Program.
4. Human Research, Social and Behavioral Research, Basic Course. CITI Program.
5. Basic Biosafety, Biosafety/Biosecurity (including animals).
6. Human Research, Biomedical Research Investigators and Key Personnel, Basic Course, CITI Program.
7. Occupational Health and Safety Program, Basic Course. CITI Program.
8. Working with Cattle in Agricultural Research Settings. CITI Program.
9. Working with Sheep and Goats in Research Settings. CITI Program.
10. Working with the IACUC; Investigators, Staff, and Students: Basic Course. CITI Program.

## II. Teaching

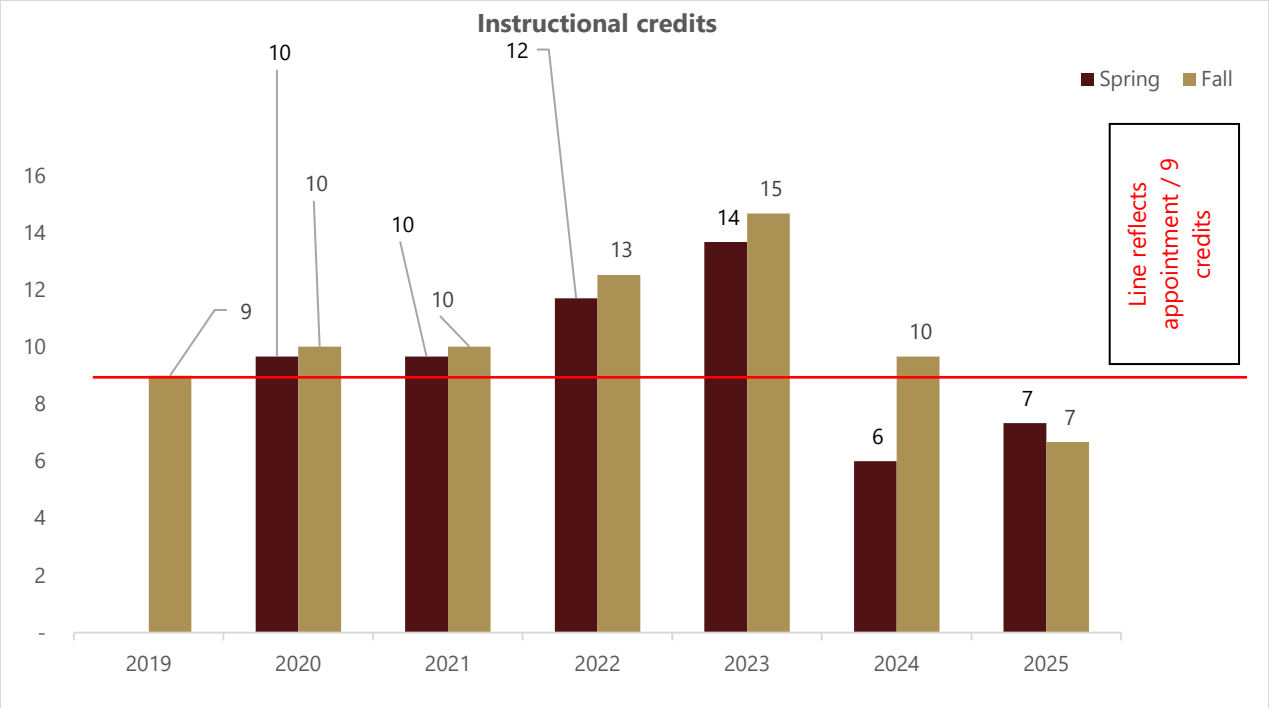
**A. Teaching awards and honors**

1. Favorite Professor. *Alpha Chi* Honor Society, Texas State University. 2024.
2. Service-learning Excellence Fellow. Texas State University. Aug 2021-
3. E. Kika De La Garza Fellowship recipient. USDA. (National). June 21-25, 2021.

**B. Courses taught**

| | Course | Section | Title | Credits | # students |
|---|---|---|---|---|---|
| **Fall 2025** | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 29 |
| | AG 5310 | 251 | RESEARCH METHODS | 3 | 18 |
| | | | | 6 | 47 |
| **SPRING 2025** | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 41 |
| **FALL 2024** | AG 3325 | 002 | ANIM NUTR | 3 | 40 |
| | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 50 |
| | RES 3399 | 001 | RES CREATIVE ESP | 3 | 17 |
| | | | | 9 | 107 |
| **SPRING 2024** | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 44 |
| | AG 5310 | 251 | RESEARCH METHODS | 3 | 13 |
| | | | | 6 | 57 |
| **FALL 2023** | AG 1445 | 003 | BASIC ANIMAL SCI | 3 | 82 |
| | AG 3330 | 001 | APPL WILDLIFE NUTR | 3 | 30 |
| | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 49 |
| | | | | 9 | 161 |
| **SUMMER 2023** | AG 5365 | 751 | GRANT DEVELOPMENT MGMT | 3 | 8 |
| **SPRING 2023** | AG 3325 | 252 | AN NUTR | 3 | 40 |
| | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 42 |
| | AG 5365 | 251 | ANIMAL SCIENCE IN SOCIETY | 3 | 7 |
| | | | | 9 | 89 |
| **FALL 2022** | AG 1445 | 003 | BASIC ANIMAL SCI | 3 | 85 |
| | AG 3341 | 001 | LEADERSHIP DEV IN AG SCIENCES | 3 | 45 |
| | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 49 |
| | | | | 9 | 179 |

| | | | | | |
|---|---|---|---|---|---|
| **SUMMER 2022** | AG 3325 | 751 | AN NUTRITION | 3 | 34 |
| **SPRING 2022** | AG 3341 | 253 | LEADERSHIP DEV IN AG SCIENCES | 3 | 41 |
| | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 42 |
| | AG 5365 | 251 | ANIMAL SCIENCE IN SOCIETY | 3 | 16 |
| | | | | 9 | 99 |
| **FALL 2021** | AG 1445 | 003 | BASIC ANIMAL SCI | 3 | 80 |
| | AG 3341 | 001 | LEADERSHIP DEV IN AG SCIENCES | 3 | 41 |
| | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 50 |
| | | | | 9 | 171 |
| **SUMMER 2021** | AG 3325 | 751 | AN NUTRITION | 3 | 13 |
| | AG 5365 | 751 | GRANT DEVELOPMENT MGMT | 3 | 5 |
| | | | | 6 | 18 |
| **SPRING 2021** | AG 3341 | 253 | LEADERSHIP DEV IN AG SCIENCES | 3 | 38 |
| | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 42 |
| | AG 5365 | 251 | ANIMAL SCIENCE IN SOCIETY | 3 | 18 |
| | | | | 9 | 98 |
| **FALL 2020** | AG 1445 | 003 | BASIC ANIMAL SCI | 3 | 72 |
| | AG 3341 | 002 | LEADERSHIP DEV IN AG SCIENCES | 3 | 35 |
| | AG 4326 | 001 | ADV ANI SCI RUMNT | 3 | 56 |
| | | | | 9 | 163 |
| **SUMMER 2020** | AG 5351 | 501 | GRANT DEVELOPMENT MGMT | 3 | 6 |
| | AG 4185 | 502, 504, 505 | CUR PRO TECH AG | 3 | 3 |
| | | | | 6 | 9 |
| **SPRING 2020** | AG 3325 | 252 | AN NUTRITION | 3 | 35 |
| | AG 4326 | 251 | ADV ANI SCI RUMNT | 3 | 39 |
| | AG 5310 | 251 | RESEARCH METHODS | 3 | 10 |
| | | | | 9 | 84 |
| **FALL 2019** | AG 4326 | 001 | ADV ANI SCI RUMINT | 3 | 56 |
| | AG 1445 | 003 | BASIC ANIMAL SCI | 3 | 27 |
| | AG 1445 | L07 | BASIC ANIMAL SCI | 1 | 19 |
| | AG 1110 | 001 | CAREERS IN AG | 1 | 100 |
| | AG 5100 | 001 | PROFESSIONAL DEV | 1 | 7 |
| | | | | 9 | 209 |




### C. Directed student learning

| **Directed student learning: theses** | | | | | |
|---|---|---|---|---|---|
| **Name** | **Level of study** | **Academic unit, Institution** | **Role** | **Status** | **Date** |
| Lauren Orlando | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | In progress | Jan 2026- |
| Carolyn Jess | PhD | Department of Biology, Texas State University | Committee member | In progress | May 2025- |
| Md Sakif Uddin Khan | MS, thesis | Ingram School of Engineering, Texas State University | Committee member | In progress | Aug 2024- |
| Victoria Garcia | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | In progress | Aug 2025- |
| Yazmin Montes | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | In progress | Aug 2025- |
| Sabrina Fortunatti Rodriguez | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | In progress | Jan 2025- |
| Allison Serda | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | In progress | Aug 2024- |
| Tanvir Ahmed | MS, thesis | Ingram School of Engineering | Committee member | Completed | Aug 2023-Aug 2025 |
| Kenedy Kornegay | MS, thesis | Agricultural Sciences, Texas State University | Committee member | Completed | Aug 2023-May 2025 |
| Tyrone Bowman | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Did not complete | Aug 2022-May 2025 |
| Alyssa Lopez | BS, Honors thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Aug 2024-Dec 2024 |
| Greyson Fruge | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Jan 2023-Dec 2024 |

| | | | | | |
|---|---|---|---|---|---|
| Emma Fukuda | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Aug 2022-May 2024 |
| Mikael Carrasco | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Jan 2022-Dec 2023 |
| Hannah Boyer | MS, thesis | Agricultural Sciences, Texas State University | Committee member | Completed | Jan 2022-May 2023 |
| Shakara Maggitt | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | May 2021-Aug 2023 |
| Kayra Tasci | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Aug 2021-May 2023 |
| Jessica (Jay) Rea | BS, Honors thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | May 2022-Aug 2022 |
| Annalisa Scott | MS, thesis | Sociology, Texas State University | Committee member | Completed | July 2021-May 2022 |
| Kacie York | MS, thesis | Agricultural Sciences, Texas State University | Co-advisor | Did not complete | Aug 2021-Jan 2022 |
| Crystal Russo | MS, thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Aug 2019-May 2021 |
| Zoe Rowe | BS, Honors thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | Jan 2021-May 2021 |
| Emma Kathcart | BS, Honors thesis | Agricultural Sciences, Texas State University | Major advisor | Completed | May 2020-Dec 2020 |

| **Directed student learning: exit committees (non-thesis)** | | | | | |
|---|---|---|---|---|---|
| **Name** | **Level of study** | **Department, Institution** | **Role** | **Status** | **Date** |
| Louis Keller | MS, non-thesis | Agricultural Sciences, Texas State University | Committee member | Completed | May 2025 |
| Rebecca Tasker | MS, non-thesis | Agricultural Sciences, Texas State University | Committee member | Completed | Dec 2024 |
| Cassaundra Melgar-C'De Baca | MS, non-thesis | Agricultural Sciences, Texas State University | Committee member | Completed | Aug 2021-Dec 2023 |
| Jeffrey McAfee | MS, professional paper | Agricultural Sciences, Texas State University | Committee member | Completed | Dec 2022 |
| Makayla Johnson | MS, professional paper | Sociology, Texas State University | Committee member | Completed | Oct 2021-Dec 2021 |
| William Glenn | MS, professional paper | Agricultural Sciences, Texas State University | Committee member | Completed | Aug 2021 |
| Cody Brown | MS, professional paper | Agricultural Sciences, Texas State University | Committee member | Completed | Dec 2020 |

| **Directed student learning: projects** | | | | | |
|---|---|---|---|---|---|
| **Project name** | **Name** | **Level of study** | **Department, Institution** | **Role** | **Date** |
| Biochar as feed for cattle | Kim Boardman | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2025- |
| | Sabrina Fortunatti | MS | Agricultural Sciences, Texas State University | Major advisor | Jan 2025- |
| Hemp as feed for beef cattle: diet utilization, cannabinoid transference, and blood hormones | Mary Vertucci | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2025- |
| | Victoria Garcia | MS | Agricultural Sciences, Texas State University | Major advisor | Aug 2025- |
| | Alyssa Lopez | BS | Agricultural Sciences, Texas State University | Major advisor | Dec 2022-June 2023 |

| | | | | | |
|---|---|---|---|---|---|
| | Greyson Fruge | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2022-Dec 2022 |
| Validating facial grimace score for cattle through circulating biomarkers of pain and stress | Yazmin Montes | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2024-May 2025 |
| Cattle preference for thymol at increasing doses | Elizabeth Hernandez | BS | Agricultural Sciences, Texas State | Major advisor | Jan 2025-May 2025 |
| | Madison Cantu | BS | Agricultural Sciences, Texas State | Major advisor | Jan 2025-May 2025 |
| | Jordan Suter | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2024-May 2025 |
| College students' perceptions of sustainability before and after a tour of beef production | Victoria Garcia | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2024-May 2025 |
| Developing an autonomous robot to monitor cattle herd activity (AnimalCareBot) | Susan Ledezma | BS | Agricultural Sciences, Texas State University | Major advisor | March 2025- |
| | Elysia Jimenez | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2024-May 2025 |
| | Victoria Garcia | BS | Agricultural Sciences, Texas State University | Major advisor | March 2023-Aug 2024 |
| Developing an artificial intelligence model to identify cattle behavior | Alyssa Lopez | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2023-Dec 2024 |
| Differentiating microbial species between the rumen liquid and solid fractions | Delila Dominguez | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2023-May 2024 |
| Evaluating eggshell waste as a novel feed for cattle | Sabrina Fortunatti Rodriguez | BS | Agricultural Sciences, Texas State University | Major advisor | Aug 2024- |
| | Allison Serda | Post-bac | Agricultural Sciences, Texas State University | Major advisor | Oct 2023-May 2024 |
| | Jimena Farfan | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2023-May 2024 |
| Spent mushroom substrate as feed for beef cattle | Adriana Cavazos | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2022-May 2023 |
| Replacing fish meal with Black soldier fly larvae in U.S. aquaculture production | Evan Moore | BS | Agricultural Sciences, Texas State University | Co-advisor | Aug 2022-July 2023 |
| Impact of participating in service-learning on undergraduate and high school students | Jesica Thornburgh | BS | Agricultural Sciences, Texas State University | Major advisor | Feb 2022-May 2023 |
| | Emily Blanton | BS | Biology, Texas State University | Major advisor | Aug 2022-May 2023 |
| Insects as feed for beef cattle | Delila Dominguez | BS | Agricultural Sciences, Texas State University | Major advisor | May 2023-Sept 2023 |
| | Jessica Rea | BS | Agricultural Sciences, Texas State University | Major advisor | Jan 2022-Aug 2022 |
| Upcycling insect frass into compost | Beatrice Jasso | BS | Agricultural Sciences, Texas State University | Co-advisor | Aug 2021-Dec 2022 |
| | Luisa Quinchia | BS | Agricultural Sciences, Texas State University | Co-advisor | Aug 2021-May 2022 |
| Impact of Covid-19 on teaching Agricultural Sciences at the post-secondary level | Mikael Carrasco | BS | Agricultural Sciences, Texas State University | Major advisor | May 2020-Dec 2020 |
| | Kayra Tasci | BS | Agricultural Sciences, Texas State University | Major advisor | Oct 2020-May 2021 |

| | | | | | |
|---|---|---|---|---|---|
| | Gabriela Garza | BS | Agricultural Sciences, Texas State University | Major advisor | Jan 2021-Dec 2021 |
| | Kenedy Kornegay | BS | Agricultural Sciences, Texas State University | Major advisor | Jan 2021-Dec 2021 |
| | Emily Catalan | BS | Agricultural Sciences, Texas State University | Major advisor | Jan 2021-May 2021 |
| Impact of Covid-19 on experiences and perceptions of Veterinary Technicians | Zoe Rowe | BS | Agricultural Sciences, Texas State University | Major advisor | Dec 2020-Sept 2021 |
| Black Soldier Fly Larvae as a novel feedstuff for beef cattle | Emma Kathcart | BS | Agricultural Sciences, Texas State University | Major advisor | May 2020-Nov 2021 |

**Directed student learning: achievements**

| Name | Level of study | Department, Institution | Role | Achievement | Date |
|---|---|---|---|---|---|
| Emma Fukuda | PhD | Animal Science, Texas Tech University | Former advisor | Received 2nd place in PhD student 3MT (3 Minute Thesis) competition at American Society of Animal Science Southern section [representing and supported by TXST] | April 2025 |
| Allison Serda | MS | Agricultural Sciences, Texas State University | Major advisor | Received 3rd place in MS student 3MT (3 Minute Thesis) competition at American Society of Animal Science Southern section | April 2025 |
| Victoria Garcia | BS | Agricultural Sciences, Texas State University | Major advisor | Received 2nd place in undergraduate 3MT (3 Minute Thesis) competition at American Society of Animal Science Southern section | April 2025 |
| Yazmin Montes | BS | Agricultural Sciences, Texas State University | Major advisor | Received 2nd place People's Choice award in the poster contest at TXST STEM Conference | March 2025 |
| Yazmin Montes | BS | Agricultural Sciences, Texas State University | Major advisor | Received Undergraduate Research Fellowship grant ($1,500) | March 2025 |
| Victoria Garcia | BS | Agricultural Sciences, Texas State University | Major advisor | Received Quanta Undergraduate Research Fellowship grant ($2,000) | March 2025 |
| Alyssa Lopez | BS | Agricultural Sciences, Texas State University | Major advisor | Outstanding Senior at Texas State University | April 2025 |
| Greyson Fruge | MS | Agricultural Sciences, Texas State University | Major advisor | Received 3rd place in MS Student Poster Competition at the 2024 ASAS-CSAS-WSAS Annual Meeting (Calgary, Alberta) | July 2024 |
| Alyssa Lopez | BS | Agricultural Sciences, Texas State University | Major advisor | Awarded Outstanding Traditional Undergraduate Student for College of Applied Arts | April 2024 |

| | | | | | |
|---|---|---|---|---|---|
| Emma Fukuda | MS | Agricultural Sciences, Texas State University | Major advisor | Awarded Outstanding Graduate Student (MS) for College of Applied Arts | April 2024 |
| Alyssa Lopez | BS | Agricultural Sciences, Texas State University | Major advisor | Received 3rd place in undergraduate 3MT (3 Minute Thesis) competition at American Society of Animal Science Southern section | Jan 2024 |
| Emma Fukuda | MS | Agricultural Sciences, Texas State University | Major advisor | Received People's Choice at the preliminary round of the 3MT (3 Minute Thesis) competition | Oct 2023 |
| Greyson Fruge | MS | Agricultural Sciences, Texas State University | Major advisor | Received 2nd place in the poster competition at the TXST Sustainability Expo | April 2023 |
| Emma Fukuda | MS | Agricultural Sciences, Texas State University | Major advisor | Named "Graduate Student Employee of the Year" by TXST Career Services | April 2023 |
| Kayra Tasci | MS | Agricultural Sciences, Texas State University | Major advisor | Received First Place ($1,000) and People's Choice ($500) at university-wide 3MT (3 Minute Thesis) competition | Nov 2022 |
| Jesica Thetford | BS | Agricultural Sciences, Texas State University | Major advisor | Received Undergraduate Research Fellowship grant ($1,000) | Oct 2022 |
| Jesica Thetford | BS | Agricultural Sciences, Texas State University | Major advisor | Received 3rd place in the Undergraduate Research Poster Competition at the Western Section American Society of Animal Science conference ($100) | Oct 2022 |
| Greyson Fruge | BS | Agricultural Sciences, Texas State University | Major advisor | Served as a panelist for the TXST IDEA Center | Oct 2022 |
| Kayra Tasci | MS | Agricultural Sciences, Texas State University | Major advisor | Awarded Thesis Research Fellowship ($2,000) | Aug 2022 |
| Greyson Fruge | BS | Agricultural Sciences, Texas State University | Major advisor | Awarded Outstanding Undergraduate Student for Department of Agricultural Sciences | April 2022 |
| Emma Fukuda | BS | Agricultural Sciences, Texas State University | Major advisor | Awarded Outstanding Traditional Undergraduate Student for College of Applied Arts | April 2022 |
| Kayra Tasci | MS | Agricultural Sciences, Texas State University | Major advisor | Awarded Outstanding Graduate Student (MS) for College of Applied Arts | April 2022 |
| Emma Fukuda | BS | Agricultural Sciences, Texas State University | Major advisor | Served as a panelist for the TXST IDEA Center | March 2022 |
| Kayra Tasci | MS | Agricultural Sciences, Texas State University | Major advisor | Received the Freeman Fellows Graduate Research Fellowship ($1,500) | March 2022 |
| Jessica Rea | BS | Agricultural Sciences, Texas State University | Major advisor | Received Undergraduate Research Fellowship grant ($1,000) | Feb 2022 |
| Emma Kathcart | BS | Agricultural Sciences, Texas State University | Major advisor | Received 3rd place in the Undergraduate Research | Oct 2021 |

| | | | | | |
|---|---|---|---|---|---|
| | | | | Poster Competition at the Western Section American Society of Animal Science conference ($100) | |
| Luisa Quinchia | BS | Agricultural Sciences, Texas State University | Major advisor | Received Undergraduate Research Fellowship grant ($1,000) | Oct 2021 |
| Emma Kathcart | BS | Agricultural Sciences, Texas State University | Major advisor | Received 1st place for research poster at Southern Family Farmers & Food Systems Conference | Aug 2021 |
| Kayra Tasci | BS | Agricultural Sciences, Texas State University | Major advisor | Received 1st place at 15th Undergraduate Research Conference ($500) | April 2021 |
| Emma Kathcart | BS | Agricultural Sciences, Texas State University | Major advisor | Received Undergraduate Research Fellowship grant ($1,000) | Nov 2020 |

| **Directed student learning: graduate student alumni (as major advisor)** | | |
|---|---|---|
| **Name** | **Current position** | **Current company/institution** |
| Greyson Fruge | Park Maintenance | Travis County |
| Emma Fukuda | Doctoral Teaching and Research Assistant | Texas Tech University Dept. Animal Sci |
| Mikael Carrasco | Rancher Resource Coordinator | Grassroots Carbon |
| Shakara Maggitt | Production/QA Specialist | ION |
| Kayra Tasci | Project Engineer | Lockheed Martin |
| Crystal Russo, DVM | Veterinarian | Chisolm Trail Veterinary Clinic of Luling |

**D. Courses prepared and curriculum development**

| **Courses prepared and curriculum development: Curriculum development** | | |
|---|---|---|
| | **Course** | **Title** |
| **Spring 2024** | AG 2391 | LIVESTOCK BEHAV WELF |
| | AG 4331 | DIS PREP MGMT AG |

| **Courses prepared and curriculum development: Revise existing course** | | |
|---|---|---|
| | **Course** | **Title** |
| **Spring 2025** | AG 3346 | EQUINE MANAGEMENT |
| **Fall 2023** | AG 3330 | APPL WILDLIFE NUTR |
| **Spring 2021** | AG 5365 | ANIMAL SCIENCE IN SOCIETY |
| **Fall 2020** | AG 3341 | LEADERSHIP DEV IN AG SCIENCES |
| | AG 1445 | BASIC ANIMAL SCI |
| **Summer 2020** | AG 5351 | GRANT DEVELOPMENT MGMT |
| **Spring 2020** | AG 3325 | AN NUTRITION |
| | AG 5310 | RESEARCH METHODS |
| **Fall 2019** | AG 4326 | ADV ANI SCI RUMINT |

**E. Teaching grants and contracts**

a. <u>Funded Internal Teaching Grants and Contracts</u>

1. **Drewery ML**. Learning research methodologies through a STEM exploration event. Amount: $500. Sponsor: Service-Learning Excellence Mini-Grant Program. Funded Jan 2024-May 2024.
2. **Drewery ML**. AgCamp: A one-day educational event for local high school students. Amount: $500. Sponsor: Service-Learning Excellence Mini-Grant Program. Funded Aug 2022-Dec 2022.
3. **Drewery ML**. AgCamp: A one-day educational event for local high school students. Amount: $500. Sponsor: Service-Learning Excellence Mini-Grant Program. Funded Jan 2022-May 2022.

4. **Drewery ML**. AgCamp: A one-day educational event for local high school students. Amount: $500. Sponsor: Service-Learning Excellence Mini-Grant Program. Funded Aug 2021-Dec 2021.

**F. Other**

1. Guest lectured to one section of HS 1310, Introduction to Health Professions, Texas State University College of Health Professions. February 24, 2025.
2. Guest lectured to one section of AG 1110, Careers in Agriculture, Texas State University Department of Agricultural Sciences. February 24, 2023.
3. Guest lectured to one section of AG 1110, Careers in Agriculture, Texas State University Department of Agricultural Sciences. February 18, 2022.
4. Guest lectured to two sections of AG 1110, Careers in Agriculture, Texas State University Department of Agricultural Sciences. November 5, 2021.
5. Guest lectured to one section of AG 1110, Careers in Agriculture, Texas State University Department of Agricultural Sciences. February 2021.
6. Guest lectured to two sections of AG 1110, Careers in Agriculture, Texas State University Department of Agricultural Sciences. November 2020.

**G. Teaching professional development activities attended**

1. College of Science and Engineering (COSE) Symposium on Student Success. Gen STEM, Texas State University. December 3rd, 2025. Workshop.
2. Click Here for Success: Strategies for Asynchronous Teaching. Faculty Development, Texas State University. April 29th, 2025. Webinar.
3. The Strength Within: Activating Community Cultural Wealth to Increase Success for Students of Color in STEM Disciplines. Faculty Development, Texas State University. January 11th, 2023. Workshop.
4. Service-Learning Advisory Board. Service-Learning Excellence Program, Texas State University. November 18th, 2022. Workshop.
5. Assets, Power, and Strength: First-generation College Students & Ways to Support Them. First-gen Council, Texas State University. November 8, 2022. Workshop.
6. Multicultural Curriculum Transformation and Research Institute. Center for Diversity and Gender Studies, Texas State University. May 23-27, 2022. Workshop series.
    - Competitive nomination and invitation process
7. ESCALA: Culturally Responsive Teaching for Faculty at HSIs. Texas State University. January 28, 2022. Seminar.
8. Service-Learning Development Workshop. Service-Learning Excellence, Texas State University. June-July 2021. Workshop series.
9. Agriculture Teachers Association of Texas Professional Development Conference for Agriculture, Food and Natural Resources Cluster. Agriculture Teachers Association of Texas. July 20, 2021. Conference.
10. Teaching Online at Texas State University. Office of Distance and Extended Learning, Texas State University. May 2020. Workshop.
11. Teaching First-Generation Students: Practical Tips for the Classroom. Faculty Development, Texas State University. March 2020. Seminar.

## III. Scholarly/creative

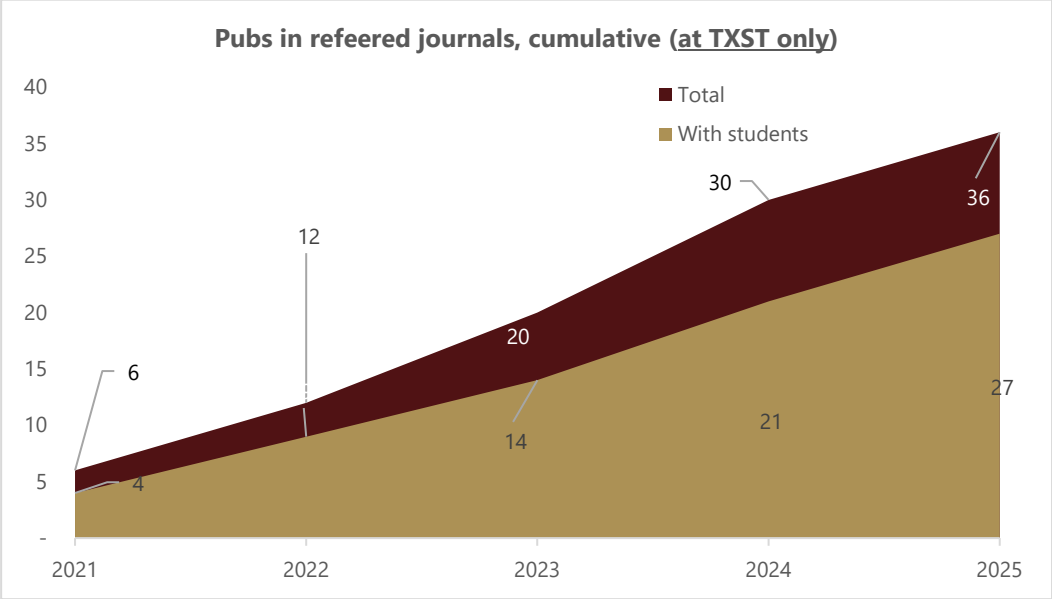
**A. Works in print**

1. Refereed articles (*represents student mentee)

**Lifetime total:** 45
**Total at TXST:** 36
**Metrics (Google Scholar; 1/14/26):**

- Citations: 662
- h-index: 13

- i10-index: 18




1. Fukuda EP*, Suter J*, Jessup R, **Drewery ML**. Diet acceptance and utilization responses to increasing doses of thymol in beef steers consuming forage. Animals 2025; 15(24): 3637. https://doi.org/10.3390/ani15243637
    a. Impact factor: 2.7
2. Fruge G*, Magnin G, Jessup R, Bruner B, Kleinhenz M, **Drewery ML**. Cannabinoid transference and retention in tissues of beef steers fed hemp leaves. Food Additives & Contaminants: Part A 2025; 42(6). https://doi.org/10.1080/19440049.2025.2506106
    a. Impact factor: 2.8
3. Garcia V*, Brandao AP, Wickersham TA, **Drewery ML**. Experiential learning improves college student perceived understanding and strengthens their perceptions of the beef industry. Translational Animal Science 2025; 9: txaf151. https://doi.org/10.1093/tas/txaf151
    a. Impact factor: 1.8
4. Fruge G*, Jessup R, Suter J, Fortunatti S, **Drewery ML**. The effect of hemp leaves on intake, digestion, and rumen fermentation parameters in beef steers. Livestock Science 2025; 300: 105782. https://doi.org/10.1016/j.livsci.2025.105782
    a. Impact factor: 1.9
5. Lopez A*, Fukuda E*, Fruge G*, Boyer H, Wagner N, **Drewery ML**. Assessing hemp components as feed for cattle through in-vitro true digestibility, in-situ, and cannabinoid determinations. Animal Feed Science and Technology 2025; 325: 116354. https://doi.org/10.1016/j.anifeedsci.2025.116354
    a. Impact factor: 2.5
6. Maggitt S*, Cox J, Dobson, K, McCann J, Wickersham TA, **Drewery ML**. Intake, digestion, and rumen microbial impacts of black soldier fly larvae and frass provided as protein supplements to cattle consuming forage. Journal of Animal Science 2025; skaf077. https://doi.org/10.1093/jas/skaf077
    a. Impact factor: 2.7
7. Kenchanna D*, Waliczek (Cade) TM, **Drewery ML**. Evaluating Black Soldier Fly (*Hermetia illucens*) frass and larval sheddings in the production of a quality compost. Fermentation 2024; 10(12):613. https://doi.org/10.3390/fermentation10120613
    a. Impact factor: 3.3
8. Barrett M, **Drewery ML**, Fischer B. Entomologists' knowledge of, and attitudes towards, insect welfare in research and education. Ecological Entomology 2024. https://doi.org/10.1111/een.13415
    a. Impact factor: 2.0
9. Carrasco M*, **Drewery ML**. Mealworm larvae and black soldier fly larvae as novel protein supplements for cattle consuming low-quality forage. Translational Animal Science 2024; 8. https://doi.org/10.1093/tas/txae122

    a. Impact factor: 1.1491
10. Tasci KD*, Wickersham TA, **Drewery ML**. Acceptance and forage utilization responses of steers consuming low-quality forage and supplemented black soldier fly larvae as a novel feed. Journal of Animal Science 2024; 102. https://doi.org/10.1093/jas/skae168
    a. Impact factor: 2.7
11. Glenn W*, Waliczek TM, **Drewery ML.** Market potential for specialty compost produced from wool waste. HortTech 2024;34(3):322-330. https://doi.org/10.21273/HORTTECH05388-24
    a. Impact factor: 1.387
12. Moore ER*, Liu XP, **Drewery ML**. Pelagic fish spared from ocean catch by integrating Black Soldier Fly Larvae in U.S. aquaculture production. Frontiers in Sustainable Food Systems. 2024:8. https://doi.org/10.3389/fsufs.2024.1297414
    a. Impact factor: 3.7
13. Blanton E*, Anderson RG, **Drewery ML**. Service-learning outreach to increase high school students' knowledge and interest in Agricultural Sciences. Translational Animal Science 2024:8. https://doi.org/10.1093/tas/txae012
    a. Impact factor: 1.3
14. **Drewery M**, Hustvedt G. Consumer support for hemp by-products as food and feed. Journal of Natural Fibers 2024;21(1). https://doi.org/10.1080/15440478.2024.2309893
    a. Impact factor: 3.507
15. **Drewery ML**, Lollar J. Undergraduates' perceptions of the value of service-learning. Frontiers in Education 2024:9. https://doi.org/10.3389/feduc.2024.1330456
    a. Impact factor: 2.3
16. Jasso B*, Quinchia L*, Waliczek TM, **Drewery ML**. Black soldier fly larvae (*Hermetia illucens*) frass and sheddings as a compost ingredient. Frontiers in Sustainable Food Systems. 2024:7. https://doi.org/10.3389/fsufs.2023.1297858
    a. Impact factor: 3.7
17. Fukuda EP*, Carrasco MN*, Perez AJ, Fischer B, **Drewery ML**. U.S. consumer perceptions of insects as livestock feed: Ethical considerations. Journal of Insects as Food and Feed 2023;10:125-139. https://doi.org/10.1163/23524588-20230028
    a. Impact factor: 5.1
18. Heibel B*, Anderson RG, **Drewery ML**. Virtual reality in welding training and education: A literature review. Journal of Agricultural Education 2023;64(4):1-14.
19. Boyer HL*, Wagner N, **Drewery M.** Effectiveness of mycorrhizae and vermicompost seed inoculation for germination, vegetative growth, cannabinoid content, and cured flower weight of CBD-rich hemp (*Cannabis sativa* L.). Journal of Agricultural Hemp Research 2023;3(1). https://doi.org/10.61611/2688-5182.1021
20. Soria E, Russo C*, Carlos-Shanley C, **Drewery M**, Boswell W, Savage M, Sanchez L, Chang C, Varga Z, Kent M, Sharpton T, Lu Y. Assessment of various standard fish diets on gut microbiome of Platyfish (*Xiphophorus maculatus*). Journal of Experimental Zoology Part B: Molecular and Developmental Evolution 2023;1-7. https://doi.org/10.1002/jez.b.23218
    a. Impact factor: 2.368
21. Fukuda EP*, Omana Sudhakaran P, **Drewery ML**. Consumer acceptance of and willingness to pay for animal food products from livestock fed insects in the United States. Journal of Insects as Food and Feed 2023;9(11):1419-1430. https://doi.org/10.1163/23524588-20220146
    a. Impact factor: 5.1
22. **Drewery ML**, Cooper JV, Wickersham TA, Cade TM. An immersive field trip focused on beef production increases sense of belonging in ethnoracial minority college students. Translational Animal Science 2023. https://doi.org/10.1093/tas/txad001
    a. Impact factor: 1.3
23. Miller CT, **Drewery ML**, Waliczek TM, Contreras RN, Kubota C. Engaging undergraduate students in research. HortTechnology 2023;33(1):1-7. https://doi.org/10.21273/HORTTECH05130-22
    a. Impact factor: 1.387
24. Waliczek TM, **Drewery M**, McMoran A, Eriksen M, Hale J. Assessing the quality of compost produced from human hair and pet fur waste. Compost Science and Utilization 2023. https://doi.org/10.1080/1065657X.2023.2167749
    a. Impact factor: 1.149

25. Russo CM*, **Drewery ML**, Chang C, Savage M, Sanchez L, Walter R, Varga Z, Kent M, Lu Y. Zebrafish diets negatively influence growth and reproduction of *Xiphophorus maculatus* and *Oryzias latipes*. Zebrafish 2022;19(5):181-189. https://doi.org/10.1089/zeb.2022.0004
    a. Impact factor: 2.229
26. **Drewery ML**, Liu XP, Wickersham TA. Black Soldier Fly Larvae (BSFL) as a feed for beef cattle: A hedonic pricing model. Journal of Insects as Food and Feed 2022; 8(7):743-751. https://doi.org/10.3920/JIFF2021.0166
    a. Impact factor: 5.7
27. Rowe ZC*, **Drewery ML**, Anderson RG, Russo CM*. Challenges and opportunities faced by veterinary technicians in the workplace during COVID-19. Frontiers in Veterinary Sciences 2022;9:831127. https://doi.org/10.3389/fvets.2022.831127
    a. Impact factor: 3.412
28. Fukuda E*, Cox J, Wickersham TA, **Drewery ML**. Evaluation of Black Soldier Fly larvae (*Hermetia illucens*) as a protein supplement for beef steers consuming low-quality forage. Translational Animal Science 2022;6(1):1-6. https://doi.org/10.1093/tas/txac018
    a. Impact factor: 1.3
29. Garza G*, **Drewery ML**, Anderson RG. Online teaching workshops and conferences: A COVID-19 survey on faculty teaching agriculture. NACTA Jour 2022;66:19-25.
30. Kornegay K*, **Drewery ML**, Anderson RG. Effect of Covid-19 on faculty participation in teaching training. NACTA Jour 2022;66:1-8.
31. Tasci K*, **Drewery ML,** Anderson RG. Changes in academic rigor and faculty perception of student learning in the post-secondary classroom during Covid-19. NACTA Jour 2021;65:526-534.
32. Catalan E*, **Drewery ML**, Anderson RG, Omana Sudhakaran P. Learning Management Software (LMS) for teaching agricultural sciences: The role of age in faculty's adoption before and during Covid-19. NACTA Jour 2021;65:442-454.
33. **Drewery ML**, Sawyer JE, Wickersham TA. Effect of upstream processing on nutritional value of post-extraction algal residue for beef cattle. Anim Nutr Feed Tech 2021;21:221-232. https://doi.org/10.5958/0974-181X.2021.00019.6.
    a. Impact factor: 0.20
34. Carrasco, M*, **ML Drewery**, RG Anderson, M Swafford. Adoption of technology and social media in the post-secondary classroom before and as a result of COVID-19. NACTA Jour 2021;Covid-19 Special Issue:56-66.
35. Tasci, K*, **ML Drewery**, RG Anderson, M Swafford. Adoption of software in the post-secondary agricultural classroom as a result of the Covid-19 pandemic. NACTA Jour 2021;Covid-19 Special Issue:44-54.
36. Sawyer JE, **Drewery ML**, Wickersham TA. Post-extraction algal residue as a protein supplement for beef steers consuming forage: palatability and nutrient utilization. Anim Feed Sci Technol. 2021;273:114796. https://doi.org/10.1016/j.anifeedsci.2020.114796.
    a. Impact factor: 2.582
37. Gaitan AV, **Drewery ML**, Thaxton CA, et al. Dietary intake and omega-3 DHA status in pregnant women who are overweight. J Obstet Gynecol Neonatal Nurs 2018;47:438-450. https://doi.org/10.1016/j.jogn.2017.08.008
    a. Impact factor: 1.8
38. **Drewery ML**, Gaitan AV, Spedale SB, et al. Maternal n-6 and n-3 fatty acid status during pregnancy is related to infant heart rate and heart rate variability: an exploratory study. Prostaglandins Leukot Ess Fatty Acids 2017;117-125. https://doi.org/10.1016/j.plefa.2017.09.003
    a. Impact factor: 2.9
39. **Drewery ML**, Spedale SB, Lammi-Keefe CJ. Modulation of heart rate and heart rate variability by n3 LCPUFA: speculation on mechanism(s). Med Hypotheses 2017;107:29-34. https://doi.org/10.1016/j.mehy.2017.07.011
    a. Impact factor: 2.1
40. Xu W, Cater M, Gaitan A, **Drewery M**, Gravois R, Lammi-Keefe CJ. Awareness of *Listeria* and high-risk food consumption behavior among pregnant women in Louisiana. Food Control 2017;76:62-65. https://doi.org/10.1016/j.foodcont.2017.01.009
    a. Impact factor: 5.6

41. **Drewery ML**, Gaitan AV, Thaxton C, Xu W, Lammi-Keefe CJ. Pregnant women in Louisiana are not meeting dietary seafood recommendations. J Preg 2016;2016:1-9. https://doi.org/10.1155/2016/1853935
    a. Impact factor: 3.2
42. Maisashvili A, Bryant H, Richardson J, Anderson D, Wickersham T, **Drewery M**. The values of whole algae and lipid extracted algae meal for aquaculture. Algal Res 2015;9:133-142. https://doi.org/10.1016/j.algal.2015.03.006
    a. Impact factor: 4.6
43. **Drewery ML**, Sawyer JE, Pinchak WE, Wickersham TA. Effect of increasing amounts of postextraction algal residue on straw utilization in steers. J Anim Sci 2014;92:4642-4649. https://doi.org10.2527/jas.2014-7795/
    a. Impact factor: 2.7
44. McCann JC, **Drewery ML**, Sawyer JE, Pinchak WE, Wickersham TA. Effect of postextraction algal residue supplementation on the ruminal microbiome of steers consuming low-quality forage. J Anim Sci 2014;92:5063-5075. https://doi.org/10.2527/jas.2014-7811
    a. Impact factor: 2.7
45. Gogichaishvili I, Bryant HL, […] **Drewery ML**. The value of post-extracted algal residue. Algal Res 2012;1:185-193. https://doi.org/10.1016/j.algal.2012.06.001
    a. Impact factor: 4.6

2. Refereed conference presentations, *since TXST* (* represents student)

1. Montes Y*, Bruner B, Carnal J, Viscardi A, **Drewery ML**. Assessing the relationship between beef calf grimace scores and circulating haptoglobin during castration. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
2. Serda AN*, Bruner B, Wickersham TA, **Drewery ML**. Effect of protein supplementation frequency on forage utilization by cattle consuming cool-season or warm-season low-quality forage. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
3. Garcia V*, Brandao A, Wickersham TA, **Drewery ML**. Student perceptions of animal experiences in beef production after an experiential learning opportunity. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
4. Fowler E, Fortunatti S*, **Drewery ML**. Effect of pine derived biochar on ruminal methanogen communities in beef steers. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
5. Fowler E, Fukuda EP*, **Drewery ML**. A microbial enzymatic comparison between liquid and solid microenvironments in the rumen of beef steers. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
6. Fortunatti S*, Fowler E, **Drewery ML**. Effect of increasing amounts of pine derived biochar on forage utilization in beef steers. *Accepted for oral presentation at the American Association of Animal Scientists Southern Section Meeting. January 2026.* Rogers, AR.
7. Kornegay K, Anderson RG, Paulsen T, **Drewery ML**. Determining the Impact of an Electricity Workshop on the Importance to Teach Electricity. October 2025. Paper presentation at National Agricultural Mechanics Professional Development Blue Ribbon Papers Research Conference. Indianapolis, IN.
8. Kornegay K, Anderson RG, Paulsen T, **Drewery ML**. Exploring the Impact of an Electricity Workshop on SBAE Teachers Ability to Perform Electrical Skills. October 2025. Poster presentation at National Agricultural Mechanics Professional Development Blue Ribbon Papers Research Conference. Indianapolis, IN.
9. Fowler EC, Fukuda E*, **Drewery ML**. Metagenomic analysis of the influence of thymol on rumen microbial metabolic pathways and enzymes profiles in beef steers. July 2025. Oral presentation at American Association of Animal Scientists Annual Meeting. Hollywood, FL. https://doi.org/10.1093/jas/skaf300.322
10. Brandao A, Wickersham TA, **Drewery ML**. Impacts of a trip to the Texas Panhandle on impressions and comprehension of the beef industry by animal science students. July 2025. Oral presentation at American Association of Animal Scientists Annual Meeting. Hollywood, FL. https://doi.org/10.1093/jas/skaf300.380

11. Borges B, **Drewery ML**, Anderson RG. Women of Welding Participant's sense of belonging in the welding industry. May 2025. Poster presentation at American Association for Agricultural Education Conference. Lubbock, TX.
12. Dominguez DD*, Fukuda EP*, Lu Y, **Drewery ML**. Whole genome characterization of microorganisms associated with solid or rumen liquid microenvironments. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.140
13. Fortunatti Rodriguez S*, Bowman T*, Suter JP*, Cox J, Wickersham TA, **Drewery ML**. Effect of N fertilization provided as biosolids on bahiagrass yield and in-situ degradability. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.135
14. Fruge G*, Magnin G, Jessup R, Bruner B, Kleinhenz M, **Drewery ML**. Cannabinoid transference and retention in tissues of beef steers fed hemp leaves. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.042
15. Fukuda EP*, Lu Y, Jessup RW, **Drewery ML**. Dose-dependent impacts of thymol on rumen microbial populations in beef steers fed forage analyzed via whole genome shotgun sequencing. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.152
    - Won second place for Graduate (PhD) 3MT Competition
16. Lopez A*, Garcia V*, Valles D, **Drewery ML**. Developing and Validating Artificial Intelligence Models to Predict Cattle Behavior, Movement, and Emotion. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.094.
17. Garcia V*, Brandao AP, Wickersham TA, **Drewery ML**. Experiential learning improves understanding and changes perceptions of beef production in college students studying agricultural sciences. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.175
    - Won 2nd place for Undergraduate 3MT Competition
18. Serda AN*, Farfan J*, Suter J*, Fortunatti S*, **Drewery ML**. Eggshell waste as a substitute for limestone in beef cattle diets: A preliminary investigation. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.130
    - Won third place for Graduate (MS) 3MT Competition
19. Suter JS*, Fruge GE*, Fukuda EP*, Jessup RW, **Drewery ML**. Beef steers acceptance of increasing doses of thymol to a basal forage diet. April 2025. Oral presentation at American Association of Animal Scientists Southern/Western Joint Meeting. Arlington, TX. https://doi.org/10.1093/jas/skaf170.171
20. Borges BD, Anderson RG, **Drewery ML**. Shifting Perceptions: Impact of a Women of Welding Camp. November 2024. Paper presentation at National Agricultural Mechanics Professional Development Blue Ribbon Papers Research Conference. Indianapolis, IN.
21. Borges BD, Anderson RG, **Drewery ML**. Shifting Perceptions: Impact of a Women of Welding Camp. September 2024. Paper presentation at Western American Association for Agricultural Education Conference. Chico, CA.
22. Fruge G*, Magnin G, Kleinhenz M, Jessup R, Bruner B, **Drewery ML**. Cannabinoid uptake and depletion in blood plasma of cattle fed hemp leaves. July 2024. *Presented as a poster at American Association of Animal Scientists – Canadian Society of Animal Scientists – Western Section of Animal Scientists Annual Meeting. Alberta, Calgary.* https://doi.org/10.1093/jas/skae234.554
    - Won third place for Graduate Student Poster Competition
23. Fukuda EP*, Lu Y, Jessup R, **Drewery ML**. Effect of thymol on forage utilization, rumen fermentation, and rumen microorganisms in beef steers. July 2024. *Presented as a poster at American Association of Animal Scientists – Canadian Society of Animal Scientists – Western Section of Animal Scientists Annual Meeting. Alberta, Calgary.* https://doi.org/10.1093/jas/skae234.553
24. Kenchanna D*, Cade TM, **Drewery ML**. Determining the suitability of incorporating black soldier fly frass in production of a quality compost. January 2024. *Presentation at U.S. Composting Council National Conference. Daytona, Fl.*

25. Dominguez D*, Fukuda EP*, Rea J*, **Drewery ML**. *In situ* evaluation of multiple edible insects for cattle. January 2024. *Presentation at American Society of Animal Science Southern Section. Louisville, KY.* https://doi.org/10.1093/jas/skae019.110
26. Lopez AD*, Fukuda EP*, Fruge G, **Drewery ML**. *In-situ* degradability of hemp (*Cannabis sativa* L.) plant components in cattle. January 2024. *Presentation at American Society of Animal Science Southern Section. Louisville, KY.* https://doi.org/10.1093/jas/skae019.109
    - Won third place in the Undergraduate 3MT Presentation competition
27. Fruge G*, Boyer H*, Wagner N*, **Drewery ML**. An *in-vitro* analysis of hemp as feed for beef cattle. January 2024. *Presentation at American Society of Animal Science Southern Section. Louisville, KY.* https://doi.org/10.1093/jas/skae019.028
28. Fukuda E*, Jessup R, **Drewery ML**. Effect of thymol on intake and digestion in beef cattle. January 2024. *Presentation at American Society of Animal Science Southern Section. Louisville, KY.* https://doi.org/10.1093/jas/skae019.015
29. Carrasco M*, **Drewery ML**. Mealworm and black soldier fly larvae as protein supplements for beef steers consuming forage. January 2024. *Presentation at American Society of Animal Science Southern Section. Louisville, KY.* https://doi.org/10.1093/jas/skae019.016
30. Kenchanna D*, Cade TM, **Drewery ML**. Determining the suitability of incorporating black soldier fly frass in production of a quality compost. November 2023. *Presentation at State of Texas Alliance for Recycling (STAR) Conference. Meadows Center, San Marcos, TX.*
31. Borges B, **Drewery ML**, Anderson RG. Women of Welding participant's sense of belonging in the welding industry. November 2023. *Presentation at National Agricultural Mechanics Professional Development Blue Ribbon Papers Research Conference.*
    - Received "Distinguished Research Poster"
32. Soria E, Russo C*, Boswell W, Savage M, Sanchez L, Varga Z, **Drewery ML**, Carlos-Shanley C, Lu Y. October 2022. *Poster at Aquatic Models of Human Disease Conference. Boston, MA.*
33. Thornburgh (nee Thetford) J*, Anderson RG, **Drewery ML**. Service-learning positively impacts college students' professional development. September 2022. *Poster at Western Region American Association of Animal Scientists Conference. Park City, UT.*
    - Won 3rd place in the Undergraduate Research Poster Competition
34. **Drewery ML**, Cooper JV, Wickersham TA. Change in college students' sense of belonging as a result of a beef cattle production tour. September 2022. *Poster at Western Region American Association of Animal Scientists Conference. Park City, UT.* https://doi.org/10.1093/jas/skac313.046
35. Fukuda E.P.*, Omana Sudhakaran P, **Drewery ML**. Factors affecting consumer acceptance of insects as livestock feed. September 2022. *Poster at Western Region American Association of Animal Scientists Conference. Park City, UT.* https://doi.org/10.1093/jas/skac313.040
36. **Drewery ML.** Transitioning an undergraduate leadership development course to a service-learning platform. February 2022. *Presentation at Universality of Global Education Conference. Huntsville, TX.*
37. Rowe ZC*, Tasci KD*, Russo CM*, Anderson RG, **Drewery ML**. The effect of the COVID-19 pandemic on veterinary technicians. October 2021. *Poster at Western Region American Association of Animal Scientists Conference. Fort Collins, CO.*
38. Kathcart EP*, Cox JR, Wickersham TA, **Drewery ML**. Evaluation of Black Soldier Fly Larvae (BSFL) as a protein supplement for beef steers consuming low quality forage. Western Region American Association of Animal Scientists Conference. October 2021. *Poster at Western Region American Association of Animal Scientists Conference. Fort Collins, CO.*
    - Won third place in the Undergraduate Research Poster competition
39. **Drewery M**, Catalan E*, Anderson RG, Omana Sudhakaran P. Faculty use of Learning Management Software during Covid-19: the effect of age and time. September 2021. *Oral presentation at Western Region American Association of Agricultural Educators Conference. Bozeman, MT.*
40. Tasci K*, **Drewery M**, Anderson RG. Changes in academic rigor and faculty perception of student learning during Covid-19. September 2021. *Oral presentation at Western Region American Association of Agricultural Educators Conference. Bozeman, MT.*
41. Kerr A, Sudhakaran PO, **Drewery ML**. Pre and post-weaning performance of calves fed milk replacer containing different sources of butyrate. American Dairy Science Association. 2020.

3. Non-refereed conference presentations

1. Jimenez E*, Lopez A*, Valles D, **Drewery ML**. Developing artificial intelligence models for predicting cattle movement, behavior, and emotion. March 2025. *Poster at TXST STEM Conference*.
2. Fortunatti Rodriguez S*, Bowman T*, Suter JP*, Cox J, Wickersham TA, **Drewery ML**. Effect of N fertilization provided as biosolids on Bahiagrass yield and *in-situ* degradability. March 2025. *Poster at TXST STEM Conference*.
3. Suter JP*, Fruge GE*, Fukuda EP*, Jessup RW, **Drewery ML**. Beef steers acceptance of increasing doses of thymol to a basal forage diet. March 2025. *Poster at TXST STEM Conference*.
4. Garcia V*, Brandao AP, Wickersham TA, **Drewery ML**. Experiencing the beef industry improves student understanding and shifts perceptions. March 2025. *Poster at TXST STEM Conference*.
5. Hernandez E*, Cantu M*, Jessup RW, **Drewery ML**. Assessing the tolerance of beef steers to increasing doses of dietary thymol: A follow-up study. March 2025. *Poster at TXST STEM Conference*.
6. Montes Y*, **Drewery ML**. Calf grimace scores and their relationship to pain-improving livestock welfare. March 2025. *Poster at TXST STEM Conference*.
    - Won second place People's Choice Poster Presentation
7. Lopez AD*, Valles D, **Drewery ML**. Monitoring cattle behavior and health using artificial intelligence and thermography. April 2024. *Poster at TXST STEM Conference*.
8. Dominguez DD*, Fukuda EP*, Yuan L, **Drewery ML**. Whole genome characterization of microorganisms associated with solid or liquid rumen microorganisms. April 2024. *Poster at TXST STEM Conference*.
9. Cavazos AL*, Tasci KD*, **Drewery ML**. An *in-vitro* analysis of spent mushroom substrate as an alternative feed for cattle. April 2024. *Poster at TXST STEM Conference*.
10. Lopez AD*, Fukuda EP*, Boyer HL, Wagner NC, **Drewery ML**. *In-situ* degradability of hemp (*Cannabis sativa* L.) components in cattle. April 2023. *Presentation at TXST Undergraduate Research Conference*.
11. Cavazos AL*, Tasci KD*, **Drewery ML.** Spent mushroom substrate (SMS) as a potential cattle feed. April 2023. *Poster at TXST Undergraduate Research Conference*.
12. Blanton EB*, **Drewery ML**. Service-learning outreach to increase high school students' knowledge and interest in Agricultural Sciences. April 2023. *Poster at TXST Undergraduate Research Conference*.
13. Otakpor MO*, Tasci KD*, **Drewery ML.** Identifying perceived barriers of undergraduate students interested in pursuing a D.V.M. degree. April 2023. *Poster at TXST Undergraduate Research Conference*.
14. Moore ER*, Liu XP, **Drewery ML**. Pelagic fish spared from ocean catch by integrating Black Soldier Fly Larvae in aquaculture production. March 2023. *Poster at TXST Sustainability Expo*.
15. Fukuda E*, Jessup R, **Drewery ML**. Thymol as a methane-mitigating feed additive for cattle. April 2023. *Poster at TXST Sustainability Expo*.
16. Fruge G*, Boyer H, Wagner N, **Drewery ML.** Industrial hemp as cattle feed: An *in vitro* analysis. April 2023. *Poster at TXST Sustainability Expo*.
    - Won 2nd place in the poster competition
17. Bowman T*, **Drewery ML.** Evaluating the acceptance and feasibility of using biosolids as an alternative fertilizer for Bahia grass. April 2023. *Poster at TXST Sustainability Expo*.
18. Tasci K*, **Drewery ML**. Making livestock systems more environmentally sustainable: An evaluation of black soldier fly larvae as an alternative protein source for beef cattle. April 2023. *Poster at TXST Graduate Student Research Conference*.
19. Fruge G*, Boyer H, Wagner N, **Drewery ML.** Industrial hemp as cattle feed: An *in vitro* analysis. March 2023. *Poster at TXST STEM Conference*.
20. Tasci K*, **Drewery ML.** Black soldier fly larvae (BSFL) as an alternative protein source for beef cattle consuming forage. March 2023. *Poster at TXST STEM Conference*.
21. Lopez AD*, Fukuda EP*, Boyer HL, Wagner NC, **Drewery ML**. *In-situ* degradability of hemp (*Cannabis sativa* L.) components in cattle. March 2023. *Poster at TXST STEM Conference*.
22. Moore ER*, Liu XP, **Drewery ML**. Pelagic fish spared from ocean catch by integrating Black Soldier Fly Larvae in aquaculture production. March 2023. *Poster at TXST STEM Conference*.
23. Maggitt S*, Cox J, Wickersham TA, **Drewery ML**. Black soldier fly larvae (BSFL) and frass (FRS) as protein supplements for beef steers consuming low-quality forage. March 2023. *Poster at TXST STEM Conference*.
24. Carrasco MN*, Fukuda EP*, Perez AJ*, Fischer B, **Drewery ML**. U.S. consumer perceptions of insects as livestock feed: Ethical considerations for insects. March 2023. *Poster at TXST STEM Conference*.
25. **Drewery ML**, Anderson RG. Challenges faced by veterinary technicians during Covid-19. Health Scholar Showcase, Translational Health Research Center, Texas State University. April 2022.

26. Kornegay K*, **Drewery ML**, Anderson RG. A COVID survey on participation of agriculture faculty members in formal, nonformal, and informal training. Texas State Honors Research Forum. November 2021.
27. Garza G*, **Drewery ML**, Anderson RG. A Covid-19 survey on faculty teaching agricultural sciences: interest in online teaching training. Texas State Honors Research Forum. November 2021.
28. Kornegay K*, **Drewery ML**, Anderson RG. Faculty participation in formal, non-formal, and informal teaching training prior to and as a result of Covid-19. Presented as a poster at Texas State University HSI Symposium. San Marcos, TX. September 2021.
29. Garza G*, **Drewery ML**, Anderson RG. A Covid-19 survey on faculty teaching agricultural sciences: interest in online teaching training. Presented as a poster at Texas State University HSI Symposium. San Marcos, TX. September 2021.
30. EP Kathcart*, JR Cox, TA Wickersham, **ML Drewery**. Black Soldier Fly Larvae (*Hermetia illucens*) as a protein supplement for beef steers. Southern Family Farmers & Food Systems Conference. August 2021.
    - Won 1st place in research poster competition
31. **Drewery ML**, EP Kathcart*, JR Cox, TA Wickersham. Insect protein for cattle: the first evaluation of Black Soldier Fly Larvae. 2021 Health Scholar Showcase, Translational Health Research Center, Texas State University. April 2021.
32. Catalan E*, RG Anderson, P Omana Sudhakaran, **ML Drewery**. Learning Management Software (LMS) for teaching during COVID-19: gender does not play a role in faculty's voluntary adoption. Texas State 15th Annual Undergraduate Research Conference & Honors Thesis Forum. April 2021.
33. Rowe Z*, CM Russo*, R Anderson, **ML Drewery**. What the Tech?: The effect of the COVID-19 pandemic on Veterinary Technicians. Texas State 15th Annual Undergraduate Research Conference & Honors Thesis Forum. April 2021.
34. Carrasco M*, R Anderson, M Swafford, **M Drewery**. Adoption of technology and social media in the post-secondary agricultural classroom before and as a result of Covid-19. Texas State 15th Annual Undergraduate Research Conference & Honors Thesis Forum. April 2021.
35. Tasci K*, RG Anderson, **ML Drewery**. Altered academic rigor in the post-secondary classroom during COVID-19: how and why. Texas State 15th Annual Undergraduate Research Conference & Honors Thesis Forum. April 2021.
    - Won 1st place in poster competition
36. Russo CM*, C Chang, Y Lu, **ML Drewery**. Standardizing and optimizing rearing methods of animal models: influence of diet in *Xiphophorus maculatus* and *Oryzias latipes*. International Research Conference for Graduate Students, Texas State University. April 2021.
37. Russo CM*, **Drewery ML**, Chang CT. Standardizing and optimizing rearing methods of animal models: influence of diet on Medaka growth. Women in Science and Engineering Conference. April 2020.
38. Kathcart EP*, J Cox, TA Wickersham, **ML Drewery**. The effect of Black Soldier Fly Larvae (*Hermetia illucens*) on intake and *in vivo* digestibility in beef steers consuming low-quality forage. Texas State Honors Research Forum. April 2020.

4. Invited talks, lectures and presentations

1. **Drewery ML**. Navigating grad school and funding opportunities. May 13th, 2025. *CAMINOS Institute*. San Marcos, TX.
2. **Drewery ML.** Engaging underrepresented students in research. August 2022. *Invited and presented orally at the American Society for Horticulture Science annual meeting. Chicago, IL*.
3. **Drewery ML**, RG Anderson. USDA and underrepresented students: three on-going programs at TXST. 2021. *Invited and presented orally by Drewery at Texas State University HSI Symposium. San Marcos, TX*.
4. Wickersham TA, **Drewery ML**. A research summary: post-extraction algal residue as a protein supplement to cattle consuming low-quality forage. 2013. *Invited and presented orally by Drewery at 104th American Oil Chemists' Society Annual Meeting*.
5. **Drewery ML**, Sawyer JE, Wickersham TA. Potential markets for post-extraction algal residue: beef cattle. 2011. *Invited and presented orally by Drewery at 5th Algae Biomass Summit*.

5. Consultancies

1. External Evaluator. "Women and Minorities in Smart Agriculture". PI: Anahita Emami, Texas State University. 2025-.

2. USDA-NIFA – Federal Grant Peer Review Panelist – Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. USDA-NIFA. November 18-20th, 2024.
3. USDA-NIFA – Federal Grant Peer Review Panelist – Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. USDA-NIFA. July 15-17th, 2024.
4. External Evaluator. "Women and Minorities in Welding: WAM WELD". PI: Ryan Anderson, Texas State University. 2023-.
5. Review Editor. Nutrient Density Alliance. December 2023-March 2024.
6. External Evaluator. "The Women of Welding Series: WOW". PI: Ryan Anderson, Texas State University. 2021-2023.
7. Dairy Farmers of Canada – Grant Peer Review Panelist. March 2023.
8. USDA-NIFA – Federal Grant Peer Review Panelist – Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. USDA-NIFA. March 1st-3rd, 2023.

6. Workshops

1. Chahin J, **Drewery ML**, Gonzales E, Vasquez BE. Grant writing and grant finding: Advice for faculty at an HSI. Faculty Development. Texas State University. April 2023.
2. **Drewery ML**, Bowman S, Lew, K. What Does it Mean to be First Gen? A Faculty Panel. First-gen Council, Texas State University. November 2022.

**B. Works not in print**

1. Works "submitted" or "under review" (* represents student mentee)

n/a

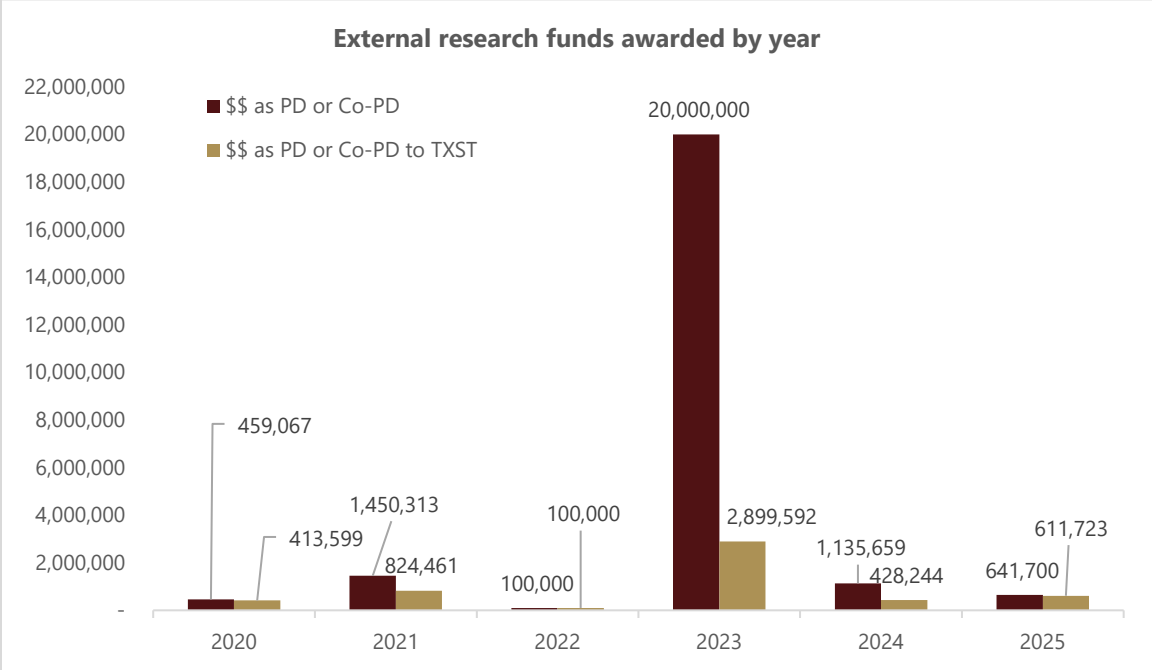
1. Works "in progress" (* represents student mentee)

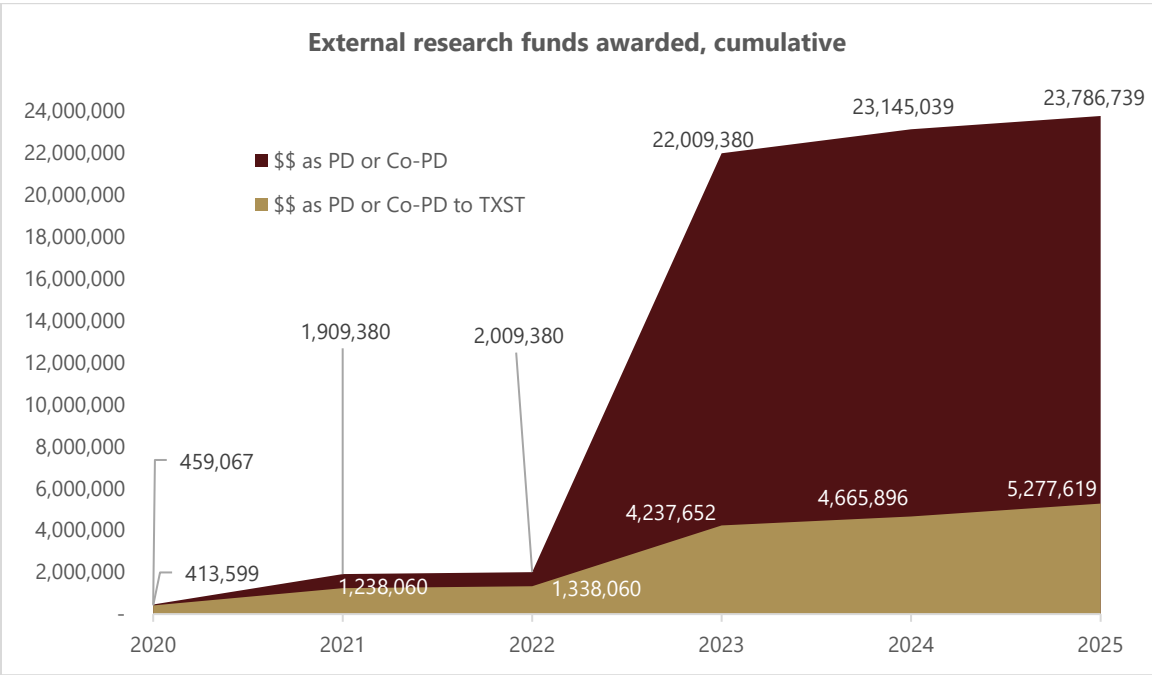
1. Lopez A*, Jimenez E*, Valles D, **Drewery ML**. Developing intelligent models to predict cattle behavior, movement, and emotion on pasture. *Estimated submission first quarter of 2026*.
2. Fukuda EP*, Yuan L, Fowler E, Jessup RW, **Drewery ML**. Metagenomic insights into the effects of dietary thymol on rumen microbial community structure and function. *Estimated submission first quarter of 2026*.
3. Fowler EC, Fortunatti S*, **Drewery ML**. Investigating the effects of pine biochar on intake and digestibility in beef steers consuming forage. *Estimated submission first quarter of 2026*.

**C. Scholarly/creative grants and contracts**

1. Funded external research grants

**Total:** $23,445,039
**Total to TXST:** $4,935,919



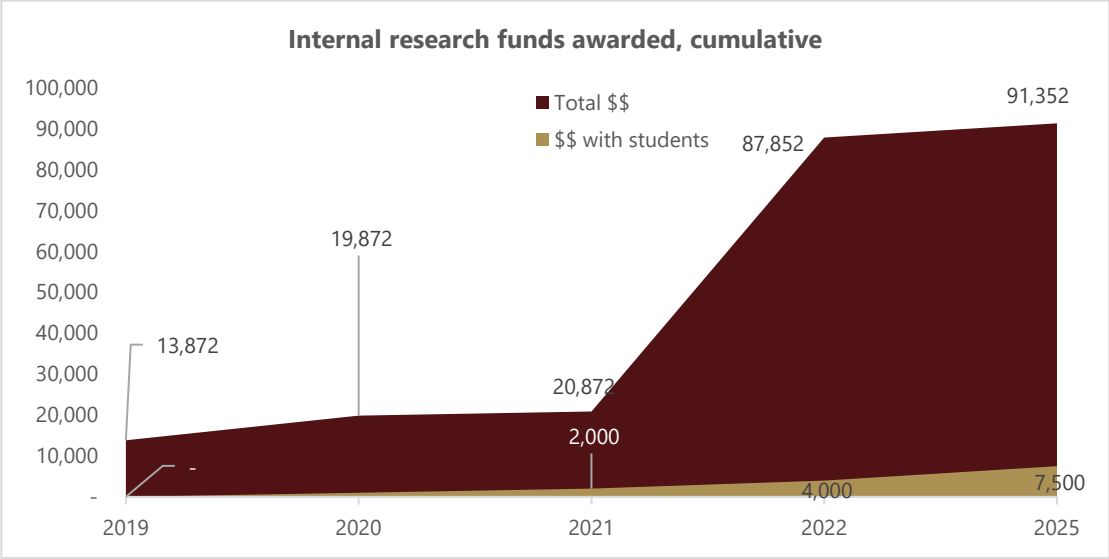

1. **Drewery M**, Lu Y. Enhancing research, education, and outreach through high-throughput sequencing. Amount: $341,700. Submitted May 2024. Sponsor: USDA Equipment Grants Program. Funded September 2025-September 2029.
2. **Drewery ML**, Lu Y, Jessup R, Kleinhenz M. Assessing hemp as feed for cattle to enhance the sustainability and safety of food production. Submitted August 2024. Sponsor: USDA NIFA AFRI. Amount: $300,000. Funded July 2025-June 2027.
3. Riggs, P, Dunlap K, Cleere J, **Drewery M**, Tolen T. Animal Science – Annual Summer Undergraduate Research and Foundational Internship Training (A SURE FIT). Submitted July 2023. Sponsor: USDA NIFA AFRI. Amount: $735,659. Funded September 2024-August 2029.
4. Chen H, **Drewery ML**, Valles D, Asiabanpour B. AnimalCareBot: Bridging the gap between emerging technologies for livestock production and education in agricultural sciences. $400,000. Sponsor: USDA NIFA HSI Education Grants Program. Funded Jan 2024-Dec 2028.
5. Bell N, Jimenez E, Loest C, **Drewery M**, DeYoung R, Chatelain-Jardon R, Feliciano M, Hernandez J, Norris-Parish S. LEADING Hispanics to Federal Agency Employment (LEADING: Leading and Enhancing

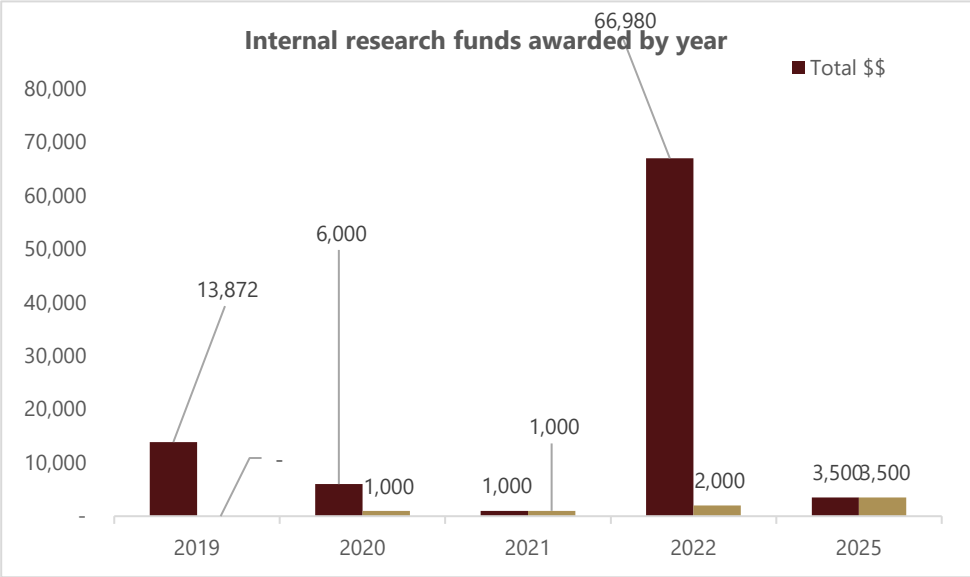
Agricultural Development in the Next Generation). $20,000,000. Sub-award: $2,899,952. Sponsor: USDA NIFA NextGen. Funded June 2023-May 2028.

6. **Drewery ML**, Cade TM. Mentorship and Promotion of Women in Agriculture (MPOWA). Amount: $100,000. Sponsor: USDA Women and Minorities in Science. Funded Sept 2022-Sept 2025.
7. Racelis A, Gabler C, **Drewery ML**, Mix K, Rugg S, Baldillo I, Cantu J. South Texas Agriculture Roadmap for Training, Research, Experiential Learning, and Careers (STARTREC) in Food, Agriculture, and Natural Resources. Amount: $975,314; Sub-award: $360,000. Sponsor: USDA HSI Education Grants Program. Funded Aug 2021-Aug 2025.
8. **Drewery ML**, Anderson RG. Science, Technology, Engineering, Agriculture, & Mathematics: integrating scientific inquiry in curriculum for pre-service Agricultural Education teachers (STEAM-AGED). Amount: $274,999. Sponsor: USDA HSI Education Grants Program. Funded Aug 2021-Aug 2025.
9. **Drewery ML**, Wickersham TA. Black soldier fly larvae as a protein source for cattle consuming forage. Amount: $200,000. Sponsor: USDA AFRI Grants Program. Funded July 2021-July 2023.
10. **Drewery ML**, Wickersham TA, Anderson R. Exposure, Experiential learning, and Extension: positioning underrepresented students for academic and professional success in agricultural sciences – 3eX-Ag. Amount: $274,989. Sponsor: USDA HSI Education Grants Program. Funded Aug 2020-Aug 2024.
11. Mix KD, **Drewery ML**. Soil Health Laboratory equipment procurement. Amount: $38,462. Sponsor: USDA AFRI Grants Program. Funded December 2020.
12. Mix, KD, Schwinning S, Benavides EA, **Drewery ML**. Transdisciplinary Research, Educational, and Extension Laboratory. Amount: $145,616. Sponsor: USDA NLGCA Grants Program. Funded May 2020.

2. Funded internal research grants (* indicates student mentee)

**Total:** $91,352
**Total with students:** $7,500
**Total as PD/advisor:** $61,372






1. Garcia V*, **Drewery ML**. Experiential learning as an approach to enhance student perceptions and understanding of beef industry concepts: Sustainability, technology, animal welfare, economy. April 2025-Aug 2025. Amount: $2,000. Sponsor: Quanta Undergraduate Research Fellowships.
2. Montes Y*, **Drewery ML**. Calf grimace scores and their relationship to pain-improving livestock welfare. April 2025-December 2025. Amount: $1,500. Sponsor: Undergraduate Research Fellowships.
3. Thornburgh J*, **Drewery ML**. The impact of service-learning on college students' perceptions of their personal and professional development. Oct 2022-May 2023. Amount: $1,000. Sponsor: Undergraduate Research Fellowships.
4. **Drewery ML**. Developing science identity in Latina and Black female undergraduates. Aug 2022-Aug 2023. Amount: $5,000. Sponsor: College of Applied Arts Learning Communities Grant.
5. **Drewery ML**, Wagner N, Hustvedt G. Upcycling hemp stubble into animal-source protein: from cultivation to consumer. Aug 2022-May 2023. Amount: $30,000. Sponsor: Multidisciplinary Internal Research Grants program.
6. Shi X, **Drewery ML**, Liu XP, Alkire L Utilization of agricultural wastes in sustainable concrete. Aug 2022-May 2023. Amount: $29,980. Sponsor: Multidisciplinary Internal Research Grants program.
7. Rea JC*, **Drewery ML**. Evaluating multiple edible insects as feed for cattle: An *in-vitro* analysis. 2022. Amount: $1,000. Sponsor: Undergraduate Research Fellowships.
8. Quinchia L*, **Drewery ML**. Upcycling Black Soldier Fly larvae frass: Exploration into composting. 2021. Amount: $1,000. Sponsor: Undergraduate Research Fellowships.
9. Kathcart E*, **Drewery ML**. Black Soldier Fly Larvae as a protein source for beef steers fed low quality hay. 2020. Amount: $1,000. Sponsor: Undergraduate Research Fellowships.
10. **Drewery ML**. Positioning underrepresented students for professional success in agricultural sciences (PUPS-Ag). 2020. Amount: $5,000. Sponsor: College of Applied Arts Learning Communities Grant.
11. **Drewery ML**, Benavides EA. Evaluating Black Soldier Fly Larvae as a protein source for cattle consuming forage. 2019. Amount: $13,872. Sponsor: Texas State University Research Enhancement Program.

3. Pending external research grants

1. Fowler E, **Drewery ML**. Identifying the role of citrus-derived flavonoids in modulating the rumen microbiome to improve nutrient utilization in beef cattle. Submitted October 2025. Amount: $299,994. Sponsor: USDA AFRI.
2. Cade T, **Drewery ML**. Invasive species training for the next generation of green industry professions. Submitted August 2025. Amount: $97,987. Sponsor: USDA PPA 7721.

4. Submitted, but not funded external grants (* indicates student mentee)

1. **Drewery ML**, Fowler E, Mast N, Hines S. Advancing the sustainability of beef production through biochar. Submitted August 2025. Amount: $518,342. Sponsor: Kleberg Foundation. *Not awarded*.
2. Bowman T*, **Drewery M**. Evaluating the feasibility and acceptance of using biosolids as an alternative fertilizer for Bahia grass. Submitted May 2023. Amount: $11,448. Sponsor: USDA Southern SARE. *Not awarded*.
3. **Drewery M**, Lu Y. Enhancing research and education through high-throughput sequencing. Amount: $347,025. Submitted May 2023. Sponsor: USDA. *Not awarded*.
4. **Drewery M**, Bruner B, Valles D, Sims R. Revolutionizing C-Lock Technology with Computer Vision and Deep Learning. Submitted March 2023. Sponsor: C-Lock, Inc. Amount: $296,642. *Not awarded*.
5. **Drewery ML**. CAREER: Underrepresented students in sustainability transdisciplinary education (USTED). Submitted July 2022. Amount: $579,404. Sponsor: NSF. *Not awarded*.
6. Chen H, Asiabanpour B, Islam T, **Drewery ML**. CALF: Cyber Animal/Livestock Farming: Research and Education Using Cyber Technologies in Cattle Farming. Submitted October 2022. Sponsor: USDA AFRI. Amount: $649,935. *Not awarded*.
7. Shi X, **Drewery ML,** Liu Xiangping, Hwang Sangchul. Developing eco-friendly construction materials using agricultural wastes (ECO-CON). Submitted September 2022. Amount: $299,997. Sponsor: USDA AFRI. *Not awarded*.
8. Cooper J, Dunlap K, **Drewery ML**, Tolen T. Animal Science – Annual Summer Undergraduate Research and Foundational Internship Training (A SURE FIT). Submitted August 2022. Amount: $748,635. Sponsor: USDA Education and Workforce Development. *Not awarded*.
9. Fukuda EP*, **Drewery ML.** Hempseed cake as a strategy to enhance forage utilization and mitigate methane in cattle. Submitted May 2022. Amount: $16,497. Sponsor: USDA Southern SARE. *Not awarded*.
10. Carrasco M*, **Drewery ML.** Mealworm (*Tenebrio Molitor)* Larvae as a novel protein for cattle consuming forage. Submitted May 2022. Amount: $16,495. Sponsor: USDA Southern SARE. *Not awarded*.
11. **Drewery ML,** Cade TM. HSI Implementation and Evaluation Project: Mentorship and Promotion of Women Minorities in Research (MPOWR). Submitted March 2022. Amount: $499,886. Sponsor: NSF 22-545. *Not awarded*.
12. Dey M, **Drewery ML**, Liu XP. Integrated Approach to Masters Student Mentoring through Applied Research and Training (IAMSMART) in Agriculture. Amount: $246,000. Sponsor: USDA-NIFA-HEP. *Not awarded*.
13. Schwinning S, **Drewery ML**, Mix K, Benavides EA. Animal, Soil, and Plant Immersive Research Experience (***ASPIRE***) for Underrepresented Undergraduates. Amount: $499,896. Sponsor: USDA-NIFA-AFRI. *Not awarded*.
14. Mix KD, **Drewery ML**. Acquisition of a ICP-OES Spectrometer for use in multidisciplinary agricultural research of the soil, plant, and animal continuum. Amount: $93,206. Sponsor: USDA Equipment Grants Program. *Not awarded*.
15. Lu Y, **Drewery ML**, Mix KD. Acquisition of High Throughput Sequencer to Elevate Agricultural Research. Amount: $338,350. Sponsor: USDA Equipment Grants Program. *Not awarded*.
16. Racelis A, **Drewery ML**, Mix K, et al. South Texas Agriculture Roadmap for Training, Research, Experiential Learning, and Careers (STARTREC) in Food, Agriculture, and Natural Resources. Amount: $1,000,000; Sub-award: $360,000. Sponsor: USDA HSI Education Grants Program. Submitted January 2020. *Not awarded*.
17. Mix KD, Schwinning S, Benavides EA, **Drewery ML**, Bell NL, Racelis A. Preparing the Next Generation for Research, Education, and Outreach in Integrated Agricultural Sciences – NexGenAg. Amount: $750,000. Sponsor: USDA NLGCA Grants Program. *Not awarded*.

**D. Scholarly fellowships, awards, honors**

1. Faculty Fellow for Health and Economic Resilience Research. Translational Health Research Center, Texas State University. June 2024-Dec 2025.
2. College of Science and Engineering "Millionaire's Club". Texas State University. August 2024, August 2025.
3. College of Science and Engineering Excellence in Scholarly and Creative Activities. Texas State University. August 2025.
4. College of Applied Arts Excellence in Scholarly and Creative Activities. Texas State University. August 2024.

5. Presidential Distinction for Excellence in Scholarly and Creative Activities. Texas State University. August 2023.
6. College of Applied Arts Excellence in Scholarly and Creative Activities. Texas State University. August 2022.
7. Voted "Most Inspirational" by the FRAP (Faculty Research & Productivity) Network. Translational Health Research Center, Texas State University. April 2021.

**E. Scholarly professional development activities attended**

1. Texas AgriLife Beef Sustainability Summit. Texas AgriLife Extension Services. Dallas, TX. December 8th-9th, 2025. Conference.
2. Health + Resilience Research Network: Healthy Ageing in Older Adults. Translational Health Research Center. San Marcos, TX. October 8th, 2025. Seminar.
3. USDA NextGen PD Meeting. Kansas City, MO. September 22nd-24th, 2025. Conference.
4. Beef Cattle Short Course. College Station, TX. August 4th-6th, 2025. Conference.
5. American Association of Animal Scientists (ASAS) National Annual Meeting. Hollywood, FL. July 7th-10th, 2025. Conference.
6. Santus Gertrudis Breeders International Annual Meeting. San Marcos, TX. May 2nd, 2025. Showcase.
7. American Association of Animal Scientists (ASAS) Southern/Western Joint Meeting. Arlington, TX. April 6th-9th, 2025. Conference.
8. Health Scholar Showcase, Translational Health Research Center. San Marcos, TX. April 4th, 2025. Showcase.
9. Hispanic Association of Colleges and Universities 38th Annual Conference. Aurora, Colorado. October 31st-November 4th, 2024. Conference.
10. Texas Conference for Women. Austin, TX. October 2nd, 2024. Conference.
11. Beef Cattle Short Course. College Station, TX. August 5-7, 2024. Conference.
12. American Society for Animal Science (ASAS) National meeting. Calgary, Alberta. July 21-25, 2024. Conference.
13. Hispanic-Serving Institutions (HSI) Education Grants Program Quarterly HSI Grantees Webinar. Remote/Virtual. July 18, 2024. Workshop.
14. United States Department of Agriculture (USDA) NextGen Student Summit. Washington, DC. May 15-17, 2024. Conference.
15. United States Department of Agriculture (USDA) K-14 Education Program Portfolio Project Director Meeting. Kansas City, MO. April 2-5, 2024. Workshop.
16. Health + Resilience Research Network Meeting. Texas State University. February 7, 2024. Seminar.
17. American Society for Animal Science (ASAS) Southern Section meeting. Louisville, KY. Jan 27-30, 2024. Conference.
18. United States Department of Agriculture (USDA) NextGen Project Director Meeting. Washington, DC. October 10-13, 2023. Workshop.
19. United States Department of Agriculture (USDA) 6th Annual HB2501 Program. Austin, TX. September 27-28, 2023. Conference.
20. Southern Family Farmers and Food Systems Conference. San Marcos, TX. August 7-8, 2023. Conference.
21. The Texas Conference for Women. Austin, TX. November 9-10, 2022. Conference.
22. Western Section ASAS Meeting. American Society of Animal Science. Park City, UT. September 20-23, 2022. Conference.
23. American Society for Horticulture Sciences Annual Meeting. Chicago, IL. July 30-August 3, 2022. Conference.
24. My NSF CAREER Success Story: How I bolstered my qualitative research agenda. Texas State University. February 25, 2022. Seminar.
25. Universality of Global Education Conference: Redefining community in global context. Sam Houston State University. March 4-5, 2022. Conference.
26. Western Section ASAS Meeting. American Society of Animal Science. October 18-20, 2021. Conference.
27. 2021 Western Region AAAE Conference. American Association for Agricultural Education. Bozeman, MT. September 27-29, 2021. Conference.
28. Grant Development. University of South Florida, Corporate Training & Professional Education. June 2-July 21, 2021. Workshop series.

29. Documenting the Impact of Covid-19 on Faculty Performance. Faculty Development, Texas State University. January 2021. Seminar.
30. The Effects of Covid-19 on Undergraduate Research. SURE Program, Faculty Development, and the First Gen Proud Working Group; Texas State University. November 2020. Seminar.
31. North American Coalition for Insect Agriculture Annual Meeting. North American Coalition for Insect Agriculture. October 2020. Conference.
32. Wanted: Visionaries, Innovators, & Problem Solvers. Faculty Development, Texas State University. October 2020. Seminar.
33. Tenure and Promotion to Associate Professor: Advice for Assistant Professors. Faculty Development, Texas State University. September 2020. Seminar.
34. Women in Science and Engineering Conference. Texas State University College of Science and Engineering. March 2020. Conference.
35. Deciphering Microbiomes. National Institute of Food and Agriculture. December 2019. Conference.
36. International Research Conference for Graduate Students, 11th Annual. Texas State University Graduate College. November 2019. Conference.
37. Tenure and Promotion to Associate Professor: Advice for Assistant Professors. Faculty Development, Texas State University. November 2019. Seminar.
38. Annual Evaluation and Faculty Qualifications. Faculty Development, Texas State University. November 2019. Seminar.
39. Effective Strategies for Finding Funding. Faculty Development, Texas State University. October 2019. Seminar.
40. Time Management and Career-Life Integration. Faculty Development, Texas State University. October 2019. Seminar.
41. Finding Funding for Scholarship. Faculty Development, Texas State University. September 2019. Seminar.
42. Farm & Food Leadership Conference. Small Producers Initiative, Farm & Ranch Freedom Alliance, and Council for Healthy Food Systems. August 2019.

**F. Media Recognition**

1. Greener Grazing. Hillviews Magazine. (Online magazine article). October 2025. https://hillviews.txst.edu/articles/2025/greener-grazing.html
2. Insects & Hemp in Livestock Diets. The Feed Science Podcast (Online podcast). December 2024. https://www.youtube.com/watch?v=d_0tSxYnS4M
3. Black soldier fly workable as protein source for cattle. Feed Strategy (Online magazine article). August 2024. https://www.feedstrategy.com/print/content/15681181
4. Enter: Fly Larvae. Outside the Box Podcast, Faculty Development, Texas State University. October 2023. https://podcasters.spotify.com/pod/show/faculty-development/episodes/Episode-4-Enter-Fly-Larvae-e2aavd5/a-aaf1drv.
5. Growing up in America. 90.1 KPFT Live Radio Segment. July 19, 2023. https://archive.kpft.org/ (search > July 19, 2023 > Growing up in America).
6. USDA awards grant to new TXST Agriculture program. KTSW 89.9 Radio Segment and Blog. July 17, 2023. https://ktswblog.net/2023/07/17/usda-awards-grant-to-new-txst-agriculture-program-2/.
7. Growing up in America. 90.1 KPFT Live Radio Segment. April 2023. https://archive.kpft.org/ (search > April 12, 2023 > Growing up in America).
8. First-generation faculty share experiences during First Gen week. The University Star. (Online article) December 2022. https://www.universitystar.com/news/first-generation-faculty-share-experiences-during-first-gen-week/article_b63777da-7989-11ed-a51d-3f3a59cbce96.html
9. Texas State University program will mentor Black and Latina women in Ag. The Daily Yonder. (Online article). September 2022. https://dailyyonder.com/texas-state-university-program-will-mentor-black-and-latina-women-in-ag/2022/09/20/?mc_cid=0ad8f7fae8
10. If people won't eat bugs, maybe cows will? Fast Company. (Online article). July 2022. https://www.fastcompany.com/90765912/if-people-wont-eat-bugs-maybe-cows-will
11. Feeding insects to cattle could make meat and milk production more sustainable. The Conversation. (Online article). June 2022. https://theconversation.com/feeding-insects-to-cattle-could-make-meat-and-milk-production-more-sustainable-176223

12. "Black soldier fly larvae as beef cattle feed – price models". All About Feed. (Online article). February 2022. https://www.allaboutfeed.net/all-about/new-proteins/black-soldier-fly-larvae-as-beef-cattle-feed-price-models/
13. "USDA grants TXST $360K to support underrepresented students for food, agriculture, natural resources careers." San Marcos Daily Record. (Online article). January 2022. https://www.sanmarcosrecord.com/news/usda-grants-txst-36k-support-underrepresented-students-food-agriculture-natural-resources?fbclid=IwAR3OO2WAtOtu5lJc93frQMYcjzZ5GnZ_Z2A6dlmy4IMADnEvGMSZsecn754
14. "STARTREC aims to increase underrepresented students pursuing agriculture degrees, careers." Texas State News Room, Inside TXST. (Internal communication). January 2022. https://news.txstate.edu/inside-txst/2022/startrec-usda-grant.html
15. "STEAM-AGED aims to increase underrepresented students pursuing agriculture degrees, careers". Texas State News Room, Inside TXST. (Internal communication). November 2021. https://news.txstate.edu/inside-txst/2021/steam-aged-grant.html
16. "Hispanic-Serving Institutions Spotlight: 3eX-Ag at Texas State University". United States Department of Agriculture National Institute of Food and Agriculture. (Online article). August 2021. https://nifa.usda.gov/blog/hispanic-serving-institutions-spotlight-3ex-ag-texas-state-university
17. "Texas State's Drewery, Shi named 2021 USDA E. Kika De La Garza Fellows". San Marcos Corridor News. (Online Article). June 2021. https://smcorridornews.com/texas-states-drewery-shi-named-2021-usda-e-kika-de-la-garza-fellows/
18. "USDA Selects 2021 Class of E. Kika De La Garza Fellows". United States Department of Agriculture. (Press Release). June 2021. https://www.usda.gov/media/press-releases/2021/06/17/usda-selects-2021-class-e-kika-de-la-garza-fellows
    a. Also featured in: HACU News. (Online article). June 2021. https://www.hacu.net/NewsBot.asp?MODE=VIEW&ID=3362
19. "PODCAST: Is BSFL a viable cattle feed ingredient?". Feed Strategy. (Audio podcast). June 2021. https://www.feedstrategy.com/feed-strategy-podcasts/podcast-is-bsfl-a-viable-cattle-feed-ingredient/
20. "Fly larvae as feed with Merritt Drewery". Big Ideas TXST Podcast. (Audio podcast). May 2021. https://news.txstate.edu/inside-txst/big-ideas-podcast/episode-16-fly-larvae-as-feed-with-merritt-drewery.html
21. "Texas State researchers test feeding insect meal to cattle". Feed Strategy. (Online magazine article). April 2021. https://www.feedstrategy.com/animal-nutrition-formulation/texas-state-researchers-test-feeding-insect-meal-to-cattle/
22. "Fly could be key to reducing carbon footprint of livestock". Spectrum News 1. (Cable and internet news segment). April 2021. https://spectrumlocalnews.com/tx/austin/news/2021/04/24/black-soldier-fly-could-be-key-to-reducing-carbon-footprint-of-livestock
23. "Fly larvae studied as potentially novel livestock feed under USDA grant". San Marcos Corridor News. (Online article). April 2021. https://smcorridornews.com/fly-larvae-studied-as-potentially-novel-livestock-feed-under-usda-grant/
24. "Texas State Agriculture Program to Increase Underrepresented Students". San Marcos Daily Record. (Online article). January 2021. https://www.sanmarcosrecord.com/news/texas-state-agriculture-program-increase-underrepresented-students
25. "3eX-Ag Program Aims to Increase Underrepresented Students in Grad Programs via USDA Grant". San Marcos Corridor News. (Online article). January 2021.
    a. https://smcorridornews.com/3ex-ag-program-aims-to-increase-underrepresented-students-in-grad-programs-via-usda-grant/
    b. **Also featured in:** "From the Hill: an update from President Denise M. Trauth". (Internal communication). January 2021. https://mailchi.mp/b01c3b489e83/from-the-hill?e=66fbb842da
26. "AG Professor Comes Full Circle with Research and Mentorship". New Faculty Research Spotlight, Emerging Research. Office of Research and Sponsored Programs, Texas State University. (Internal communication). October 2020. https://www.txstate.edu/research/resources/research-newsletter/newsletter-archives/research-newsletter-fall-2020/faculty-research-spotlight/faculty-research-spotlight-drewery.html

**IV. Service**

A. Institutional

1. University:

*Over time*

1. Member of the Presidential HSI Community Council. August 2022-present.
2. Institutional Pre-Vet Advisor. July 2022-present.
3. Member of the HSI-Week Planning Sub-Committee, Texas State University. August-October 2023.
4. Member of the HSI-Week Planning Sub-Committee, Texas State University. August-October 2022.
5. Member of the Institutional Biosafety Committee. September 2021-May 2023.

*Single day*

1. Judge at Undergraduate Research Conference. April 23rd, 2025.
2. Judge at Texas State STEM Conference. March 28th, 2025.
3. Judge at Texas State STEM Conference. April 2024.
4. Panelist for the First-Gen Council ("Can I Be the First Researcher? A Panel on First Generation Experiences in Research"), Texas State University. November 7, 2023.
5. Member of the Outstanding Master's Thesis Award (Life Sciences) Selection Committee. November 2023.
6. Judge at TXST Undergraduate Research Conference. April 2023.
7. Judge at Texas State STEM Conference. March 2023.
8. Panelist for the First-Gen Council ("What does it mean to be First Gen? A faculty panel"), Texas State University. November 7, 2022.
9. Panelist at the IDEA Center Undergraduate Research Forum, Texas State University. March 23, 2022.
10. Judge at International Research Conference (IRC) for Graduate Students: Texas State Spring 2022.
11. Roundtable leader for New Tenure Track Faculty Orientation: Becoming a Productive Scholar and Researcher. August 2021.
12. Judge at International Research Conference (IRC) for Graduate Students: Texas State Spring 2021.
13. Roundtable leader for New Tenure Track Faculty Orientation: Becoming a Productive Scholar and Researcher. August 2020.
14. Judge at 11th Annual International Research Conference for Graduate Students. Fall 2019.

2. College:

*Over time*

1. Member of the College of Science and Engineering (COSE) 60th Anniversary Planning Committee, Texas State University. November 2025-present.
2. Committee member for the Selection Committee for the Presidential Award for Excellence in Service. 2024-present.
3. Search Committee Member for Open Rank Professor, Department of Biology. Dec 2024-March 2025.
4. Committee member for the College Research Enhancement Committee. August 2020-2023.

*Single day*

1. Graduate Marshal at Commencement. December 2022.
2. Undergraduate Marshal at Commencement. May 2022.

2. Department/School:

*Over time*

1. Chair of the Governance Committee. August 2024-present.
2. Faculty advisor of the Pre-Vet Society. July 2022-present.
3. Program and Student Outcome Assessments Coordinator: Animal Science. April 2021-present.
4. Member of the Curriculum Committee. August 2022-May 2023, August 2024-present.

- Appointed Chair Aug 2025

5. Search Committee Chair for Assistant Professor of Instruction, Department of Agricultural Sciences. Dec 2025-Jan 2026.
6. Search Committee Member for Assistant Professor of Animal Science, Department of Agricultural Sciences. Dec 2024-Feb 2025.
7. Co-organizer/Co-host, Milk Products, Texas State University Career Development Event (CDE). January 2024-March 2024; January 2023-March 2023; January 2022-March 2022.
8. Search Committee Member for Admin Assistant II. Feb 2023-March 2023.
9. Co-chair of the Departmental Self-Study for SACSCOC accreditation. August 2022-Jan 2023
10. Member of the Assistant Professor in Animal Science Search Committee. August 2022-November 2022.
11. Co-chair of the Scholarship Committee. August 2020-August 2023.
12. Search Committee Member for Admin Assistant II. Oct 2020-March 2020.

*Single day*

1. Bobcat Days. Nov 22, 2025.
2. Judge for Job Interview, Texas State University Leadership Development Event (LDE). October 17th, 2025.
3. Department of Agricultural Sciences Open House. Aug 20th, 2025.
4. Department of Agricultural Sciences Open House. April 11th, 2025.
5. Tabled at STEAM Fair (San Marcos High School). April 4th, 2025.
6. Commencement. December 2024.
7. Bobcat Welcome. August 21, 2024.
8. Commencement. May 2024.
9. Bobcat Days. April 20, 2024.
10. Commencement. December 2023.
11. Judge for Job Interview, Texas State University Leadership Development Event (LDE). October 27, 2023.
12. Bobcat Welcome. August 16, 2023.
13. Commencement. May 2023.
14. Volunteer at College of Applied Arts Welcome Event. August 17, 2022.
15. Volunteer at Bobcat Days, Texas State University. February 19, 2022.
16. Organizer/Host, Milk Products, Texas State University Career Development Event (CDE).
17. Commencement. December 2021.
18. Volunteer at Texas State Collegiate FFA Invitational/Leadership Development Event (LDE). November 5, 2021.
19. Departmental representative at the Department of Agricultural Sciences Alumni Meeting at the Agriculture Teachers Association of Texas Conference, Corpus Christi, TX. July 21, 2021.
20. Commencement. May 2021.
21. Animal Science Club presentation: "Black Soldier Fly Larvae as a Feed for Livestock". April 2021.
22. Organizer/Host, Ag Communications, Texas State University Career Development Event (CDE). March 2021.
23. Organizer for the webinar "Grad School Prep for First-Gen Students in Ag". February 2021.
24. Search Committee Member for Admin Assistant III. October 2020-November 2020.
25. Commencement. Fall 2019.
26. Graduate and Professional School Fair. Fall 2019.
27. Volunteer at Bobcat Days, Texas State University. Fall 2019.
28. Animal Science Club presentation: "Careers in Animal Science". Fall 2019.

B. Professional:

1. Federal Grant Peer Review Panelist – 2024 USDA- NIFA, Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. November 18th-20th, 2024.
2. USDA-NIFA HSI RFA Working Group. August 2nd-27th, 2024.
3. Federal Grant Peer Review Panelist – 2024 USDA- NIFA, Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. July 15th-17th, 2024.
4. Moderator at *Southern Family Farmers & Food Systems Conference*. August 2023.
5. Grant Peer Review Panelist – 2023 Dairy Farmers of Canada. April-May 2023.

6. Federal Grant Peer Review Panelist – 2023 USDA- NIFA, Food, Agricultural, Natural Resources, and Human Sciences Grant Programs. March 1st-3rd 2023
7. Reviewer for Translational Animal Science. December 2023-
8. Moderator at *Southern Family Farmers and Food Systems Conference*. August 7-9, 2022.
9. Editorial Board Member at Frontiers in Animal Science (Animal Nutrition). May 2022-
10. Reviewer for Journal of Insects as Food and Feed. 2022-
11. Reviewer for Journal of Human Nutrition and Dietetics. 2016-2021.
12. Reviewer for Journal of Pediatric Gastroenterology and Nutrition. 2019.
13. Moderator at *Farm & Food Leadership Conference*. August 2019.
14. Reviewer for the Journal of the Royal Society Interface. 2018.
15. Reviewer for EC Nutrition. 2017.
16. Reviewer for Annual Research & Review in Biology. 2017.

D. Organization Memberships:

1. *Member* of American Society of Animal Scientists. March 2021-
2. *Member* of American Association of Agricultural Educators. Aug 2021-July 2022
3. *Member* of the Texas Beef Team (Texas Beef Council). Jan 2021-July 2023.
4. *Member* of the American Oil Chemists' Society. 2011-2017.

3. Community:

1. *Board Member* at Main Street Advisory Board, City Council, San Marcos, TX. September 2024-. Estimated volunteer hours per month: 6.
2. *Volunteer* at Eyes of the San Marcos River, San Marcos, TX. June 2024-. Estimated volunteer hours per month: 4.
3. *Aquareina* at the Mermaid Society of Texas, San Marcos, TX. March 2024-Aug 2025. Estimated volunteer hours per month: 15.
    a. Member, Strategic Planning Committee
    b. Member, Social and Community Committee
4. *Volunteer* at Friends of the Library, San Marcos, TX. Jan 2024-Aug 2025. Estimated volunteer hours per month: 0.5.