

SHAELYN RAINEY
Lubbock Tx, 79424
Shaelyn.Rainey@ttu.edu

EDUCATION

August 2024 - Texas Tech University

- *MS in Wildlife, Aquatic, and Wildlands Science and Management* GPA: 3.83

May 2022 - Texas A&M University-Kingsville

- *BS in Range and Wildlife Management* GPA: 3.82

May 2019 - Stephenville High School

MEMBERSHIP IN PROFESSIONAL & STUDENT SOCIETIES

Professional

- 2019 - Present Texas Section Society for Range Management
- 2020 - Present Texas Chapter of the Wildlife Society
- 2020 - Present Society for Range Management

Student

- 2019 – 2021 TAMUK Student Chapter of NWTF
- 2019 - 2022 TAMUK Range Club
- 2019 - 2022 TAMUK Rangeland Plant I.D. Team
- 2019 - 2022 TAMUK URME Team
- 2019 - 2022 TAMUK Wildlife Society
- 2022 - Present Student Chapter of the Society for Range Management at Tech
- 2022 - Present Association of Natural Resource Scientists (TTU)

AWARDS/HONORS

1. ARCS Lubbock Achievement Award May 2025
2. Society for Range Management – 1st place presentation February 2025
3. Pendleton Scholarship August 2024
4. Summer Thesis/Dissertation Research Award March 2024
5. Texas Chapter of the Wildlife Society – Champion Plant ID Team February 2022
Placed second as individual
6. Texas Section Society for Range Management - Champion Plant ID Team October 2021
Placed second as individual, high point on team
7. Texas Section Society for Range Management Outstanding Range Student October 2021
8. The Wildlife Society – TAMUK Outstanding Undergraduate Student Award November 2021
9. Alumni Fund for Excellence – Undergraduate Award August 2021
10. Safari Club International Foundation Sables Hunting Heritage Award August 2021
11. Kermeta "Kay" Clayton, Ph.D. and Charles Hoffman Student Success Award August 2021
12. National FFA American Degree October 2020
13. Texas A&M University – Kingsville Dean's List 2020-2022
14. Texas A&M University – Kingsville Presidential Scholar 2019-2022
15. Texas FFA State Championships July 2017-July 2019
Competed in events including Agriscience Research and Research Proficiency Awards

Won national championship with one Agriscience Research project, 3rd with one Agriscience Research Project, and a gold award for National Proficiency in Agriscience Research

LEADERSHIP POSITIONS

- Aug. 2024 – Dec. 2024 Teaching Assistant; *Rangeland Plant I.D. Class*
- Aug. 2022 – Present Coach; *TTU Rangeland Plant I.D. Team*
- Aug. 2022 – Present Graduate Advisor; *TTU Range Club*
- Aug. 2021 – Dec. 2021 Coach; *TAMUK Rangeland Plant I.D. Team*
- Aug. 2021 – Dec. 2021 Tutor; *Rangeland Plant Identification Class*
- Jan. 2021 – Dec. 2021 President; *Texas A&M University-Kingsville Range Club*
- Jan. 2021 – Dec. 2021 President; *TAMUK National Wild Turkey Federation*
- Jan 2020 – Dec. 2020 Secretary; *Texas A&M University-Kingsville Range Club*
- Dec. 2019 – 2020 Vice President; *TAMUK National Wild Turkey Federation*
- May 2018 – 2019 Reporter; *Stephenville FFA Chapter*
- May 2017 – 2018 Parliamentarian; *Stephenville FFA Chapter*
- May 2016 – 2017 Vice President; *Cross Timbers District FFA*

PUBLICATIONS

- Herschberger, J., **S. Rainey**, F. Hernandez, K. Stewart, A. Montalvo, L. K. Howard. Exploring a Plant-Diversity Hypothesis to Explain Helminth Prevalence in North America, *Journal of Wildlife Diseases*, Vol. 59, 651-661. October 2023.
- **Rainey, S.T.**, C. E. Cooper-Norris, K. A. Pearson, A. B. Norris. Effects of digestion on germination of native grasses of the Southern Great Plains, *Rangeland Ecology & Management*, Vol. 98, 568-575. January 2025.

GRANTS

Accepted:

- CO-PI, Effect of waste milk application on reclaimed CRP grassland health and ecosystem services. Southern SARE Graduate Student Grant, \$14,874. Submitted by Shaelyn Rainey (graduate student).

Rejected:

- CO-PI, Utilization of companion and cover crops during native range planting for rehabilitation of croplands. Native Plant Society of Texas Grant, \$2,495. Submitted by Shaelyn Rainey (graduate student).

ABSTRACTS

1. Herschberger, J.*, **S. Rainey***, F. Hernandez, K. Stewart, A. Montalvo, L. K. Howard. Exploring a Plant-Diversity Hypothesis to Explain Helminth Prevalence in North America. Texas Chapter of the Wildlife Society. 2021 February 24-26. Virtual Conference. (Oral Presentation).
2. Herschberger, J., **S. Rainey***, F. Hernandez, K. Stewart, A. Montalvo, L. K. Howard. Exploring a Plant-Diversity Hypothesis to Explain Helminth Prevalence in North America. Texas Section Society for Range Management. 2021 October 14-15. Victoria, TX. (3MT Presentation).

3. Herschberger, J.*, **S. Rainey**, F. Hernandez, K. Stewart, A. Montalvo, L. K. Howard. Exploring a Plant-Diversity Hypothesis to Explain Helminth Prevalence in North America. National Quail Symposium. 2022 August 1-5. Springfield MO.
4. **Rainey, S.T.***, Richardson, B., Cooper-Norris, C.E., Norris, A.B., Cox, R.D. Utilization of companion and cover crops during native range planting for rehabilitation of croplands. Texas Section Society for Range Management. 2022 October 19-21. Denton, TX. (Poster Presentation).
5. **Rainey, S.T.***, Richardson, B., Cooper-Norris, C.E., Norris, A.B., Cox, R.D. Utilization of companion and cover crops during native range planting for rehabilitation of croplands. Society for Range Management. 2023 February 12-16. Boise, ID. (Poster Presentation).
6. Pearson, K.A.*, **Rainey, S.**, Cooper-Norris, C., Norris, A. 2023. A comparative analysis of white-tailed deer winter supplementation regimes for the southern Cross Timbers and Prairies Region of Texas. NRM Research Day. Department of Natural Resources Management, Texas Tech University. 2023 April 21. Lubbock, TX.
7. **Rainey, S.T.***, C. E. Cooper-Norris, Cox, R.D., Jagadish, K., Sarturi, J.O., A. B. Norris. Effects of digestion on germination of native grasses of the Southern Great Plains. Davis College Graduate Student Poster Competition. 2023 September 28. Lubbock, TX. (Poster Presentation).
8. Pearson, K.A.*, **Rainey, S.T.**, Cooper-Norris, C.E., Cherry, N.M., Sarturi, J.O., Muir, J.P., Norris, A.B. 2023. A comparative analysis of white-tailed deer winter supplementation regimes for the southern Cross Timbers and Prairies Region of Texas. TTU Davis College Graduate Student Poster Competition. 2023 Sept. 28. Lubbock, TX.
9. Labay, R.E.*, Pearson, A., **Rainey, S.**, Norris, A., Longing, S., Cooper-Norris, C. 2023. Bee demographics within a remnant prairie site in the Texas High Plains. TTU Davis College Graduate Student Poster Competition. 2023 Sept. 28. Lubbock, TX.
10. Pearson, K.A.*, **Rainey, S.T.**, Cooper-Norris, C.E., Cherry, N.M., Sarturi, J.O., Muir, J.P., Norris, A.B. 2023. Nutritive value dynamics and strategic supplementation of white-tailed deer browse species in the southern Cross Timbers and Prairies of Texas. Texas Section Society for Range Management Annual Meeting. 2023 Oct. 18 – 20. Bastrop, TX.
11. Labay, R.E.*, **Rainey, S.T.**, Pearson, K.*, Cooper-Norris, C., Norris, A., Longing, S. 2023. Bee demographics within a remnant prairie site in the Texas High Plains. Texas Section Society for Range Management Annual Meeting. 2023 Oct. 18 – 20. Bastrop, TX.
12. **Rainey, S.T.***, C. E. Cooper-Norris, K. A. Pearson, A. B. Norris. Effects of digestion on germination of native grasses of the Southern Great Plains. Texas Section Society for Range Management. 2023 October 18-20. Bastrop, TX. (Oral Presentation).

13. Pearson, K.A.*, **Rainey, S.T.**, Cooper-Norris, C.E., Cherry, N.M., Sarturi, J.O., Muir, J.P., Norris, A.B. 2024. Nutritive value dynamics and strategic supplementation of white-tailed deer browse species in the southern Cross Timbers and Prairies of Texas. Society for Range Management Annual Meeting. 2024 Jan. 28 – Feb. 1. Sparks, NV.
14. **Rainey, S.T.***, C. E. Cooper-Norris, K. A. Pearson, A. B. Norris. Effects of digestion on germination of native grasses of the Southern Great Plains. Society for Range Management. 2024 January 28-February 1. Sparks, NV. (Oral Presentation).
15. Pearson, A.*, **Rainey, S.**, Cooper-Norris, C., Cherry, N., Sarturi, J., Muir, J., Norris, A. Nutritive value dynamics and strategic supplementation of white-tailed deer browse species in the southern Cross Timbers and Prairies of Texas. Texas Chapter of the Wildlife Society Annual Meeting. 2024 Feb. 21 – 23. Houston, TX.
16. **Rainey, S.***, Pearson, A., Cooper-Norris, C., Norris, A. Variation of available browse for white-tailed deer and exotics by ecosite in north-central Texas. Texas Chapter of the Wildlife Society Annual Meeting. 2024 Feb. 21 – 23. Houston, TX. (Poster Presentation).
17. **Rainey, S.***, Norris, A.B., Cox, R.D., Slaughter, L., Cooper-Norris, C.E. Wheat as a cover crop to improve native grass establishment. TTU NRM Research Day. 2024 April 24. Lubbock, TX. (Poster Presentation).
18. Pearson, K.A.*, Rainey, S., Cooper-Norris, C.E., Cherry, N.M., Heffelfinger, L.J., Sarturi, J.O., Muir, J.P., Norris, A.B. Nutritive Value Dynamics with addition of polyethylene glycol (PEG) of White-tailed Deer Browse Species in the Southern Cross Timbers and Prairies of Texas. TTU NRM Research Day. 2024 April 24. Lubbock, TX.
19. **Rainey, S.***, Norris, A.B., Cooper-Norris, C.E. Cover crop and seeding rate effects on grassland establishment. TTU Davis College Graduate Student Poster Competition. 2024 Sept. 26. Lubbock, TX. (Poster Presentation).
20. Pearson, K.A.*, **Rainey, S.**, Cooper-Norris, C.E., Cherry, N.M., Heffelfinger, L.J., Sarturi, J.O., Muir, J.P., Norris, A.B. Nutritive Value Dynamics with addition of polyethylene glycol (PEG) of White-tailed Deer Browse Species in the Southern Cross Timbers and Prairies of Texas. TTU Davis College Graduate Student Poster Competition. 2024 Sept. 26. Lubbock, TX.
21. Pearson, K.A.*, **Rainey, S.**, Cooper-Norris, C., Cherry, N.M., Heffelfinger, L.J., Sarturi, J.O., Muir, J.P., Norris, A.B. Nutritive value dynamics and strategic supplementation of white-tailed deer browse species in the southern Cross Timbers and Prairies of Texas. Texas Section Society for Range Management Annual Meeting. 2024 Oct. 16 – 17. Victoria, TX.
22. **Rainey, S.***, Norris, A.B., Cooper-Norris, C.E. Influence of Cover Crop and Time on Native Planting Establishment in the Texas High Plains. Texas Section Society for Range Management Annual Meeting. 2024 Oct. 16 – 17. Victoria, TX. (Poster Presentation).

23. **Rainey, S.***, Norris, A.B., Cooper-Norris, C.E. Effect of Waste Milk Application on Reclaimed CRP Ground. Texas Section Society for Range Management Annual Meeting. 2024 Oct. 16 – 17. Victoria, TX. (3MT Presentation).
24. **Rainey, S.***, Norris, A.B., Cooper-Norris, C.E. Cover crop and seeding rate effects on grassland establishment. Society for Range Management. 2025 Feb. 9 – 13. Spokane, WA. (*Oral Presentation*).
25. Pearson, K.A.*, **Rainey, S.**, Cooper-Norris, C.E., Heffelfinger, L.J., Norris, A.B. Landscape use and Spatiotemporal Overlap of Native and Exotic Species in the Southern Cross Timbers and Prairies of Texas. Society for Range Management. 2025 Feb. 9 – 13. Spokane, WA.
26. **Rainey, S.***, Norris, A.B., Coldren, C.L., Cooper-Norris, C.E. Effects of vegetative composition and structure on avian presence and diversity in the Rolling Plains. Texas Chapter of the Wildlife Society. 2025 Feb. 19 – 21. Denton, TX. (*Poster presentation*)
27. Pearson, K.A.*, **S. Rainey**, C.E. Cooper, N.M. Cherry, L.J. Heffelfinger, J.O. Sarturi, J.P. Muir, A.B. Norris. 2025. Seasonal Dynamics of Browse Nutritive Value in the Southern Cross Timbers and Prairies of Texas. Texas Chapter of the Wildlife Society Conference. 2025 Feb. 19 – 21. Denton, TX.
28. **Rainey, S.***, Norris, A.B., Coldren, C.L., Cooper-Norris, C.E. Initial trends in avian diversity on a juniper/mesquite encroached grassland. NRM Research Day. 2025 April 28. Lubbock, TX.
29. Mathew, A.R.*, **Rainey, S.**, Norris, A.B., Cooper-Norrise, C.E., Conway, W. Coexistence dynamics of grassland birds and mesocarnivores in brush pile habitats. NRM Research Day. 2025 April 28. Lubbock, TX.
30. Strong, O.*, Norris, A.B., **Rainey, S.**, Brown, E., Cooper-Norris, C.E. Effects of stocking density on forage utilization, plant, and soil health in the southern High Plains of Texas. NRM Research Day. 2025 April 28. Lubbock, TX.

* Indicates presenter

STUDENT RESEARCH (2015 – 2018)

1. **Rainey, S.T.** 2018. Effect of Waste Milk on Soil Microbial Biomass. (Research Paper & Poster Presentation).
 - July 2018 Texas FFA Convention
 - October 2018 National FFA Convention
2. **Rainey, S.T.** 2017. Effect of Waste Milk on Millet Forage Quality and Soil pH. (Research Paper & Poster Presentation).
 - July 2017 Texas FFA Convention
 - October 2017 State Fair of Texas
 - October 2017 National FFA Convention
3. **Rainey, S.T.** 2016. Predation on Quail versus Chicken Egg Dummy Nests. (Research Paper & Poster Presentation).

- July 2016 Texas FFA Convention
- October 2016 State Fair of Texas
- January 2017 San Antonio Stock Show and Rodeo

4. **Rainey, S.T.** 2015. Bobwhite Quail Carcass Longevity. (Research Paper & Poster Presentation).

- July 2015 Texas FFA Convention
- October 2015 State Fair of Texas
- February 2016 San Antonio Stock Show and Rodeo

PRESENTATIONS

1. July 2025. Guest Poster Presenter: **Rainey, S.***, Norris, A.B., Coldren, C.L., Cooper-Norris, C.E. Initial trends in avian diversity on a juniper/mesquite encroached grassland. Texas Cooperative Fish and Wildlife Research Unit annual coordinating meeting, Lubbock, Texas.
2. June 2023. Guest Presenter: “Plant I.D. – Tips and Tricks”. Youth Range Workshop Ranch Tour, Decatur, Texas.
3. November 2022. Student Lecturer: “Creating a Reference Herbarium”. TTU Vegetation Inventory and Analysis Class, Lubbock, Texas.
4. October 2021. Guest Presenter: “Rangeland Plant I.D. – Our Team and What it Means”. Kingsville Garden Club Meeting, Kingsville, Texas.
5. May 2016 – 2019. Guest Presenter: “Texas Wildlife”. Kids, Kows, and More, Stephenville, Texas.

WORK EXPERIENCE

1. Vegetation Annotation and Review February 2024- August 2024
 - Enriched Ag
2. Graduate Research Assistant August 2022 – Present
 - Texas Tech University - NRM
3. Rangeland Restoration Vegetation Analysis and Inventory May 2022 – July 2022
 - American Bird Conservancy – Rio Grande Joint Venture
4. Pinyon-Juniper Songbird Community Research May 2021 – August 2021
 - Texas Tech University & Bureau of Land Management
5. Bobwhite Quail Helminth Dissection November 2020
 - Caesar Kleberg Wildlife Research Institute
6. Bobwhite Quail Trapping April 2021
 - Caesar Kleberg Wildlife Research Institute
7. Vegetation Evaluation- for Montezuma Quail Research March 2020 – July 2020
 - Caesar Kleberg Wildlife Research Institute
8. North and South Texas Helicopter Quail Surveys December 2019 – January 2020
 - CKWRI & Texas A&M
9. Game Bird Farming April 2014 – January 2019
 - Raineyshine Game Birds

VOLUNTEER EXPERIENCE

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| 1. Judge for Agriscience Fair competition (Texas FFA Organization) | June 2025 |
| 2. Biology of Plants tutor | Spring 2025 |
| 3. RPQRF Quail trapping and banding | March 2025 |
| 4. RPQRF Quail trapping and banding | December 2024 |
| 5. Rangeland Plant ID class assistant | July 2024 |
| 6. RPQRF Quail trapping and banding | December 2023 |
| 7. Youth Range Workshop Ranch Tour | June 2023 |
| 8. TTU NRM Ranch Tour | April 2023 |
| 9. TTU 1401 Rangeland Lab | Fall 2022 |
| 10. Bobwhite Trap Baiting | November 2021 |
| 11. TAMUK Wildlife Ecology Lab | November 2021 |
| 12. TAMUK Whitetail Deer Capture | October 2021 |
| 13. Una Caja Dove Shoot & Competition | October 2021 |
| 14. Pinyon-Juniper Songbird Nest Research | July 2021 |
| 15. Welder Wildlife Refuge Wildlife FFA CDE Competition | April 2021 |
| 16. Operation Orphans Deer Hunt | October 2019 |
| 17. TAMUK Wildlife Garden Cleaning & Maintenance | August 2019 – Present |
| 18. Wildlife Class Bobwhite Quail Dissection | December 2015 – December 2019 |
| 19. Texas Brigades, Special Agent | July 2017 |
| 20. Texas Brigades, Assistant Leader | July 2016 |