

William Brandon Smith

Curriculum Vita

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Auburn University, AL 36849

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EMPLOYMENT

Assistant Professor (60% Research/40% Teaching)
Auburn University

August 2021 to present
Stephenville, TX

Assistant Professor (80% Teaching/20% Research)
Tarleton State University

September 2017 to August 2021
Stephenville, TX

Graduate Research Assistant
Texas A&M AgriLife Research

May 2014 to June 2017
Overton, TX

Graduate Research Assistant
University of Arkansas

August 2012 to May 2014
Fayetteville, AR

EDUCATION

Doctor of Philosophy in Agronomy
Texas A&M University

August 2017
College Station, TX

Dissertation title: Impact of distillers' grains supplementation of cattle while grazing bermudagrass on the plant-animal interface.
Major professor(s): F. M. "Monte" Rouquette, Jr., and Luis Tedeschi

Master of Science in Animal Science
University of Arkansas

May 2014
Fayetteville, AR

Thesis title: Effect of limit-fed co-product feedstuffs on production, digestion, fermentation and rumen function in beef cattle.
Major professor: Ken Coffey

Bachelor of Science in Agronomy and Soils
Auburn University

August 2012
Auburn, AL

Bachelor of Science in Animal Sciences
Auburn University

August 2012
Auburn, AL

RESEARCH EXPERIENCE

Contracts, Grants, and Sponsored Research

Fiscal year	Count			Total grant funds		
	Submitted	Funded	Pending	Submitted	Funded	Pending
2024	11	3	5	\$10,597,504	\$1,709,004	\$6,688,500
2023	16	4	0	\$7,653,067	\$5,040,010	\$-
2022	11	5	0	\$3,866,818	\$1,530,660	\$-
2021	7	3	0	\$1,849,035	\$413,033	\$-
2020	11	3	0	\$2,869,337	\$163,158	\$-
2019	3	0	0	\$101,255	\$-	\$-
2018	8	1	0	\$2,073,382	\$170,388	\$-
2017	4	2	0	\$789,999	\$390,000	\$-
2016	0	0	0	\$-	\$-	\$-
2015	1	0	0	\$11,000	\$-	\$-
TOTAL	72	21	5	\$29,811,397	\$9,416,253	\$6,688,500

*Dotted lines in the table delineate career milestones. The candidate was hired as an Assistant Professor of Animal Science in the Department of Animal Science and Veterinary Technology at Tarleton State University beginning in FY2018. The candidate was hired as an Assistant Professor of Ruminant Nutrition in Forage Systems in the Department of Animal Sciences at Auburn University beginning in FY2022.

Publications

Book Chapters 4

1. Norris, A. B., and **W. B. Smith**[#]. 2020. Farming characteristics and manure management of small ruminant and cervid livestock. In: H. M. Waldrip, P. H. Pagliari and Z. He, editors, *Animal Manure: Production, Characteristics, Environmental Concerns, and Management*. ASA-CSSA-SSSA, Madison, WI, USA. p. [129-144](#).
2. **Smith, W. B.**, M. Wilson, and P. Pagliari[#]. 2020. Organomineral fertilizers and their application to field crops. In: H. M. Waldrip, P. H. Pagliari and Z. He, editors, *Animal Manure: Production, Characteristics, Environmental Concerns, and Management*. ASA-CSSA-SSSA, Madison, WI, USA. p. [229-243](#).
3. Vanotti, M. B.,[#] M. C. Garcia-Gonzalez, A. A. Szögi, J. H. Harrison, **W. B. Smith**, and R. Moral. 2020. Removing and recovering nitrogen and phosphorus from animal manure. In: H. M. Waldrip, P. H. Pagliari and Z. He, editors, *Animal manure: Production, characteristics, environmental concerns, and management*. ASA-CSSA-SSSA, Madison, WI. p. [275-321](#).
4. **Smith, W. B.**, T. R. Callaway,[#] L. O. Tedeschi, F. M. Rouquette, T. Sheridan, and J. Adamski. 2016. Prebiotic and probiotic approaches to improving food safety on the farm and their implications on human health. In: V. Rao and L. G. Rao, editors, *Probiotics and Prebiotics in Human Nutrition and Health*. IntechOpen, Rijeka, Croatia. p. [1-18](#).

Peer-Reviewed Manuscripts. 29

1. Corbitt, K., K. Hiltbrand, M. Coursen, S. Rodning, **W. B. Smith**, and D. Mulvaney.[#] 2024. Credibility judgments in higher education: A mixed-methods approach to detecting misinformation from university instructors. *Educ. Sci.* 14(8): 852. doi: [10.3390/educsci14080852](#).
2. Heaton, C. P.,[#] C. A. Cavinder, E. N. McClure, T. Smith, **W. B. Smith**, N. Liburt, A. Krotky, and P. Harris. 2024. Prevalence of insulin dysregulation in the non-obese stock-type horse and relationship with morphometric neck measurements. *J. Equine Vet. Sci.* 105151. doi: [10.1016/j.jevs.2024.105151](#).
3. Justice, S. M.,[#] M. K. Mullenix, D. A. Tigue, M. F. Elmore, S. L. Dillard, **W. B. Smith**, M. Runge, and W. K. Kelley. 2024. Assessment of weaning and backgrounding management practices used by Alabama beef cattle producers. *Appl. Anim. Sci.* 40: 81-90. doi: [10.15232/aas.2023-02467](#).
4. West, M. H., **W. B. Smith**, M. K. Mullenix, A. N. Rabinowitz, and S. L. Dillard.[#] 2024. Evaluation of dual-purpose wheat varieties in the Southeast United States. *Appl. Anim. Sci.* 40: 446-455. doi: [10.15232/aas.2023-02450](#).
5. Arzola-Alvarez, C., O. Ruiz-Barrera, Y. Castillo-Castillo, M. Ontiveros, M. Fonseca, B. W. Jones, **W. B. Smith**, M. E. Hume, R. Harvey, T. L. Poole, R. C. Anderson, A. Arzola-Rubio, and J. Salinas-Chavira.[#] 2023. Effects in air-exposed corn silage of medium chain fatty acids on select spoilage microbes, zoonotic pathogens, and in vitro rumen fermentation. *J. Environ. Sci. Health B.* 58(1):45-50. doi: [10.1080/03601234.2023.2168449](#).
6. Gutiérrez, S., J. P. Muir,[#] D. B. Murray, **W. B. Smith**, and J. R. Bow. 2023. Native and introduced ornamental bunchgrass seedling response to restricted soil-moisture conditions. *Native Plants J.* 24(1):18-31. doi: [10.3368/npj.24.1.18](#).
7. Jacobson, K. J.,[†] E. G. Verret,[‡] C. L. Runyan, L. A. Kinman, W. F. Owsley, J. P. Muir, and **W. B. Smith**.[#] 2023. Hempseed meal as a feedstuff in the diet of growing meat rabbits. *Appl. Anim. Sci.* 39(3):125-132. doi: [10.15232/aas.2022-02373](#).
8. Rigney, D.,[‡] A. R. Hines,[†] C. Heaton, and **W. B. Smith**. 2023. Effect of preservation method on nutritive value of kudzu forage. *Auburn Univ. J. Undergraduate Scholarship* 12:[195-198](#).
9. Fair, W. T.,[†] J. B. Breeden, T. W. Atchley, B. D. Lambert, Z. Aljoe, W. F. Owsley, and **W. B. Smith**.[#] 2022. The use of removed mesquite brush as a fiber replacement in silage production. *Animals* 12(20):2795. doi: [10.3390/ani12202795](#).
10. Herzberger, L. A., J. P. Muir,[#] A. B. Mitchell, and **W. B. Smith**. 2022. Assessing arthropod communities during bermudagrass pasture conversion to diverse native grassland on the southern Great Plains of North America. *Southwestern Entomol.* 47(2):371-384. doi: [10.3958/059.047.0213](#).
11. Carrell, R. C., **W. B. Smith**, L. A. Kinman, V. R. G. Mercadante, N. W. Dias, and D. A. Roper.[#] 2021. Cattle stress and pregnancy responses when imposing different restraint methods for conducting fixed time artificial insemination. *Anim. Reprod. Sci.* 225:106672. doi: [10.1016/j.anireprosci.2020.106672](#).
12. Garcia, T. J.,[†] N. M. Cherry, K. A. Guay, J. A. Brady, J. P. Muir, and **W. B. Smith**.[#] 2021. Preservation method of rumen fluid collected from harvested cattle alters in vitro digestibility of reference feedstuffs. *Front. Anim. Sci.* 2:775345. doi: [10.3389/fanim.2021.775345](#).
13. Garcia, T. J.,[†] N. M. Cherry, K. A. Guay, J. A. Brady, J. P. Muir, and W. B. Smith.[#] 2021. Nutritive value variation of paunch manure as an alternative feed ingredient. *Animals* 11(12):3573. doi: [10.3390/ani11123573](#).
14. Jacobson, K. J.,[†] L. A. Kinman, W. F. Owsley, J. P. Muir, and **W. B. Smith**.[#] 2021. Nutritive value variation and in vitro digestibility of hempseed meal. *Animals* 11(12):3481. doi: [10.3390/ani11123481](#).
15. **Smith, W. B.**, J. P. Banta, J. L. Foster, L. A. Redmon, T. J. Machado, L. O. Tedeschi, and F. M. Rouquette Jr.[#] 2021. Effects of supplementation of dried distillers grains with solubles to beef steers grazing Coastal bermudagrass on

- performance on pasture and in feedlot, and carcass characteristics. *Appl. Anim. Sci.* 37(2):155-165. doi: [10.15232/aas.2020-02120](https://doi.org/10.15232/aas.2020-02120).
16. **Smith, W. B.**# 2020. Attitudes toward community service using a targeted term project in a beef production course. *NACTA J.* 65:3-10.^Δ
 17. **Smith, W. B.**, J. P. Banta, J. L. Foster, L. A. Redmon, T. J. Machado, L. O. Tedeschi, and F. M. Rouquette Jr.# 2020. Evaluation of growth performance and carcass characteristics of beef stocker cattle grazing Tifton 85 bermudagrass supplemented with dried distillers grains with solubles then finished in the feedlot. *Appl. Anim. Sci.* 36(3):308-319. doi: [10.15232/aas.2019-01907](https://doi.org/10.15232/aas.2019-01907).
 18. **Smith, W. B.**, M. D. Miller, W. L. Crossland, T. R. Callaway, L. O. Tedeschi, and F. M. Rouquette Jr.# 2020. In vitro gas production including methane from bermudagrasses supplemented with dried distillers grains with solubles. *Appl. Anim. Sci.* 36(2):172-182. doi: [10.15232/aas.2019-01916](https://doi.org/10.15232/aas.2019-01916).
 19. Szemplinski, K. L., A. Thompson, N. Cherry, K. Guay, **W. B. Smith**, J. Brady, and T. Jones.# 2020. Transporting and exercising unconditioned horses: Effects on microflora populations. *J. Equine Vet. Sci.* 90:102988. doi: [10.1016/j.jevs.2020.102988](https://doi.org/10.1016/j.jevs.2020.102988).
 20. Talsma, B., B. J. Fields, K. L. Vincent, **W. B. Smith**, J. L. Speshock, J. Waddell, D. Snyder, N. W. Dias, V. R. G. Mercadante, and T. Jones.# 2020. Progesterone release and incidence of bacteria following disinfection and reuse of controlled internal drug release devices (CIDRs). *Bovine Pract.* 54(2):130-135.
 21. Moltz, B., M. Yu,# E. Osei, **W. B. Smith**, and B. Poe. 2019. The economic analysis of corn grain optimization and price variation for cattle on feed in Texas. *Agriculture.* 9(7):159. doi: [10.3390/agriculture9070159](https://doi.org/10.3390/agriculture9070159).
 22. Clark, J. K., K. P. Coffey,# W. K. Coblenz, B. C. Shanks, J. D. Caldwell, R. E. Muck, D. Philipp, M. A. Borchardt, R. T. Rhein, W. E. Jokela, E. A. Backes, M. G. Bertram, and **W. B. Smith**. 2018. Voluntary intake and digestibility by sheep of alfalfa ensiled at different moisture concentrations following fertilization with dairy slurry. *J. Anim. Sci.* 96(3):964-974. doi: [10.1093/jas/skx061](https://doi.org/10.1093/jas/skx061).
 23. Hairgrove, T. B.,# S. M. Rodgers, W. M. Cook, C. M. Budke, and **W. B. Smith**. 2018. Review of epizootic hemorrhagic disease in cattle and a study defining seroprevalence of epizootic hemorrhagic disease virus serotype 2 in Texas cattle. *Bovine Pract.* 52(1):10-15. doi: [10.21423/bovine-vol52no1p10-15](https://doi.org/10.21423/bovine-vol52no1p10-15).
 24. Roper, D. A.,# F. N. Schrick, J. L. Edwards, F. M. Hopkins, T. M. Prado, J. B. Wilkerson, A. M. Saxton, C. D. Young, and **W. B. Smith**. 2018. Factors in cattle affecting embryo transfer pregnancies in recipient animals. *Anim. Reprod. Sci.* 199:79-83. doi: [10.1016/j.anireprosci.2018.11.001](https://doi.org/10.1016/j.anireprosci.2018.11.001).
 25. Crossland, W. L., L. O. Tedeschi,# T. R. Callaway, M. D. Miller, **W. B. Smith**, and M. Cravey. 2017. Effects of rotating antibiotic and ionophore feed additives on volatile fatty acid production, potential for methane production, and microbial populations of steers consuming a moderate-forage diet. *J. Anim. Sci.* 95(10):4554-4567. doi: [10.2527/jas2017.1665](https://doi.org/10.2527/jas2017.1665).
 26. **Smith, W. B.**, K. P. Coffey,# R. T. Rhein, E. B. Kegley, D. Philipp, J. G. Powell, J. D. Caldwell, and A. N. Young. 2017. Feeding distillers' grains, soybean hulls, or a mixture of both to cows as a forage replacement: Effects on intake, digestibility, and ruminal fermentation characteristics. *J. Anim. Sci.* 95(8):3666-3675. doi: [10.2527/jas.2017.1379](https://doi.org/10.2527/jas.2017.1379).
 27. **Smith, W. B.**, K. P. Coffey,# J. D. Tucker, D. S. Hubbell III, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2017. Using soybean hulls to meet dietary energy requirements of gestating cows having restricted access to poor-quality hay. *Prof. Anim. Sci.* 33(1):101-107. doi: [10.15232/pas.2016-01553](https://doi.org/10.15232/pas.2016-01553).
 28. **Smith, W. B.**, J. L. Foster, K. C. McCuiston, L. O. Tedeschi, and F. M. Rouquette Jr.# 2017. In situ degradation patterns of 'Tifton 85' bermudagrass with dried distillers' grains supplementation. *Crop Sci.* 57(3):1773-1783. doi: [10.2135/cropsci2016.12.0981](https://doi.org/10.2135/cropsci2016.12.0981).
 29. Cummins, R. R., K. Coffey, N. Jack, K. Jogan, E. Gbur, R. Rhein, D. Philipp, M. Adams, **W. Smith**, and K. Clayton. 2014. Palatability of teff grass by horses. *Discovery, The Student J. of Dale Bumpers College of Agricultural, Food, and Life Sciences.* 15(1):26-33.

Bulletins..... 22

1. Agar, M., J. Elmore, K. Palmer, A. Wiggins, K. Kelley, S. L. Dillard, **W. B. Smith**, P. Zessin, and M. K. Mullenix. 2024. Fall management of bahiagrass with or without nitrogen fertilization as a short-term stockpiling forage option. *Ala. Livestock Res. Rep.* 2: 10-12. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
2. Boggier, A. E.,[‡] A. R. Hines,[†] A. E. Moreira da Silva,[¶] S. L. Dillard, M. K. Mullenix, and **W. B. Smith**. 2024. A comparison of in vitro methodologies for determination of forage digestibility. *Ala. Livestock Res. Rep.* 2: 47-52. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
3. Dillard, S. L., K. N. Strain, M. H. West, M. K. Mullenix, **W. B. Smith**, E. Francisco, and D. D. Harmon. 2024. In situ digestibility and nutritive value of cool-season annual grass baleage. *Ala. Livestock Res. Rep.* 2: 13-18. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
4. Hines, A. R.,[†] D. N. Rigney,[‡] A. G. Underwood, [‡] W. G. Bergen, T. R. Callaway, M. K. Mullenix, S. L. Dillard, and **W. B. Smith**. 2024. Can in vitro or in situ disappearance assays accurately predict in vivo digestibility of bermudagrass? *Ala. Livestock Res. Rep.* 2: 30-33. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).

5. Hines, A. R.,[†] D. N. Rigney,[‡] A. G. Underwood,[‡] W. G. Bergen, T. R. Callaway, M. K. Mullenix, S. L. Dillard, and **W. B. Smith**. 2024. Cell wall digestibility of four bermudagrass cultivars in beef heifers. *Ala. Livestock Res. Rep.* 2: 34-37. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
6. Justice, S. M., M. K. Mullenix, D. A. Tigue, S. L. Dillard, **W. B. Smith**, M. F. Elmore, M. Runge, and K. Kelley. 2024. Survey of producer perspectives: Weaning and backgrounding management practices used by Alabama beef cattle operations. *Ala. Livestock Res. Rep.* 2: 1-5. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
7. Justice, S. M., M. K. Mullenix, D. A. Tigue, S. L. Dillard, **W. B. Smith**, S. P. Rodning, and M. F. Chamorro. 2024. Extended effects of sequential weaning and backgrounding management in beef calves. *Ala. Livestock Res. Rep.* 2: 6-9. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
8. Pereira, J., R. Carrell, M. K. Mullenix, **B. Smith**, and S. L. Dillard. 2024. Grazing cover crops in a cotton-peanut rotation in the Wiregrass region of Alabama. *Ala. Livestock Res. Rep.* 2: 25-29. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
9. Rigney, D. N.,[†] M. L. Rockwell,[†] A. G. Underwood, J. C. Koebernick, M. K. Mullenix, and **W. B. Smith**. 2024. Variation in nutritive value of whole cottonseed from the Regional Breeding Testing Network. *Ala. Livestock Res. Rep.* 2: 38-41. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
10. Rockwell, M. L.,[†] L. M. St. Andrew,[†] A. E. M. Silva,[¶] J. D. Pereira Neto, M. K. Mullenix, and **W. B. Smith**. 2024. Can laboratory methods accurately represent field conditions when producing baleage? A preliminary report. *Ala. Livestock Res. Rep.* 2. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
11. Silva, A. E. M.,[¶] M. L. Rockwell,[†] L. M. St. Andrew,[†] A. G. Underwood, A. R. Hines,[†] D. N. Rigney,[†] and **W. B. Smith**. 2024. Parsing the effects of bag type and length of incubation on in situ digestibility results. *Ala. Livestock Res. Rep.* 2: 19-24. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
12. St. Andrew, L. M.,[†] S. L. Dillard, M. K. Mullenix, and **W. B. Smith**. 2024. Extent of use of supplemental feeding in beef cattle operations across the Southeast: A preliminary report of the regional survey. *Ala. Livestock Res. Rep.* 2: 42-46. doi: [10.35099/aurora-700](https://doi.org/10.35099/aurora-700).
13. Hines, A. R.,[†] W. G. Bergen, M. K. Mullenix, S. L. Dillard, T. R. Callaway, and **W. B. Smith**.[#] 2023. Methane production potential of heifers offered four bermudagrass cultivars. *Ala. Livestock Res. Rep.* 1: 13-17. doi: [10.35099/aurora-571](https://doi.org/10.35099/aurora-571).
14. Hines, A. R.,[†] W. G. Bergen, M. K. Mullenix, S. L. Dillard, T. R. Callaway, and **W. B. Smith**.[#] 2023. In situ dry matter disappearance kinetics of four bermudagrass cultivars. *Ala. Livestock Res. Rep.* 1: 18-21. doi: [10.35099/aurora-571](https://doi.org/10.35099/aurora-571).
15. Underwood, A. G.,[‡] S. Martin, L. W. Greene, M. K. Mullenix, and **W. B. Smith**.[#] 2023. Case study: Passage dynamics of whole cottonseed in beef cattle. *Ala. Livestock Res. Rep.* 1: 22-25. doi: [10.35099/aurora-571](https://doi.org/10.35099/aurora-571).
16. West, M., K. Mullenix, A. Rabinowitz, **W. B. Smith**, C. Parker, and L. Dillard.[#] 2023. Evaluation of dual-purpose wheat varieties in the southeastern U.S. *Ala. Livestock Res. Rep.* 1: 8-12. doi: [10.35099/aurora-571](https://doi.org/10.35099/aurora-571).
17. **Smith, W. B.**, J. P. Banta, J. L. Foster, L. A. Redmon, C. R. Long, L. O. Tedeschi, and F. M. Rouquette, Jr. 2016. Effects of level of dried distillers' grains with solubles supplement and bermudagrass cultivar on stocker performance. *Forage-Livestock Res. Prog. Rep., Res. Ctr. Tech. Rep.* [2016-2](https://doi.org/10.35099/aurora-571).
18. Cummins, R., K. Coffey, N. Jack, K. Jogan, R. Rhein, D. Philipp, M. Adams, **W. Smith**, K. Clayton and A. Young. 2014. Ruminant forage digestibility following a period of limit-feeding co-product feedstuffs. In: D. L. Kreider and P. Beck, editors. *Ark. Anim. Sci. Dep. Rep.* 2014. Res. Series 620. Univ. of Arkansas, Fayetteville. p. [44-49](https://doi.org/10.35099/aurora-571).
19. **Smith, W. B.**, K. P. Coffey, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell and A. N. Young. 2014. Ruminant forage digestibility following a period of limit-feeding co-product feedstuffs. In: D. L. Kreider and P. Beck, editors. *Ark. Anim. Sci. Dep. Rep.* 2014. Res. Series 620. Univ. of Arkansas, Fayetteville. p. [39-40](https://doi.org/10.35099/aurora-571).
20. **Smith, W. B.**, K. P. Coffey, E. B. Kegley, J. D. Caldwell, A. N. Young, E. A. Backes, J. Kanani and D. Philipp. 2013. Intake and digestibility of heat-damaged hay by Katahdin ewes. In: D. L. Kreider and P. Beck, editors. *Ark. Anim. Sci. Dep. Rep.* 2013. Res. Series 612. Univ. of Arkansas, Fayetteville. p. [101-104](https://doi.org/10.35099/aurora-571).
21. **Smith, W. B.**, K. P. Coffey, J. D. Tucker, D. S. Hubbell, III, E. B. Kegley, D. Philipp, J. D. Caldwell and A. N. Young. 2013. Production characteristics and blood metabolites of gestating cows limit-fed soybean hulls. In: D. L. Kreider and P. Beck, editors. *Ark. Anim. Sci. Dep. Rep.* 2013. Res. Series 612. Univ. of Arkansas, Fayetteville. p. [71-73](https://doi.org/10.35099/aurora-571).
22. **Smith, W. B.**, K. P. Coffey, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell and A. N. Young. 2013. Intake, digestibility and ruminal fermentation characteristics of cows limit-fed co-product commodity feeds. In: D. L. Kreider and P. Beck, editors. *Ark. Anim. Sci. Dep. Rep.* 2013. Res. Series 612. Univ. of Arkansas, Fayetteville. p. [67-70](https://doi.org/10.35099/aurora-571).

Conference Proceedings 6

1. Hines, A. R.,[†] W. G. Bergen, M. K. Mullenix, S. L. Dillard, T. R. Callaway, and **W. B. Smith**. 2023. In vitro methane production from heifers offered four bermudagrass cultivars. In: R. Smith and T. Bowling, editors. *Proc. XXV International Grassland Congress*. Curran Associates, Inc., Covington, Kentucky, USA.
2. **Smith, W. B.** 2023. %modelselect: A macro for automatically selecting statistical models based on fit statistics. In: *Proc. Southeast SAS User Group* [143-2023](https://doi.org/10.35099/aurora-571).
3. **Smith, W. B.**,[#] M. K. Mullenix, and S. L. Dillard. 2023. Supplementation strategies in forage-based beef operations: Sense and cents. In: [Proc. 2023 Annual Conference and J.T. Vaughan Equine Conference, Auburn, AL](https://doi.org/10.35099/aurora-571).

4. West, M. H., M. K. Mullenix, A. N. Rabinowitz, **W. B. Smith**, and S. L. Dillard. 2023. Evaluation of dual-purpose wheat varieties in the southeastern U.S. In: R. Smith and T. Bowling, editors. Proc. XXV International Grassland Congress. Curran Associates, Inc., Covington, Kentucky, USA.
5. **Smith, W. B.** 2019. Alternative feed ingredients: Looking to a future of recycling through refeeding. Proc. Tex. A&M Univ. Beef Cattle Short Course.
6. **Smith, W. B.**, K. P. Coffey, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2014. Ruminant forage digestibility following a period of limit-feeding co-product feedstuffs. Proc. Aust. Soc. Anim. Prod. 30:396.

Abstracts..... 97

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73. **Smith, W. B.**, J. P. Banta, J. L. Foster, L. A. Redmon, L. O. Tedeschi, and F. M. Rouquette, Jr. 2016. 127 Impact of DDGS supplementation of cattle grazing bermudagrass on the plant-animal-environment nexus. *J. Anim. Sci.* 95(suppl_1):62-63. doi: [10.2527/ssasas2017.0127](https://doi.org/10.2527/ssasas2017.0127).
74. **Smith, W. B.**, J. L. Foster, K. C. McCuistion, S. J. Abatti, M. Lesak, and F. M. Rouquette. 2016. 054 In situ degradation parameters of three chronological maturities of 'Tifton 85' bermudagrass from cattle supplemented with varying levels of distillers' dried grains. *J. Anim. Sci.* 94(suppl_1):27. doi: [10.2527/ssasas2015-054](https://doi.org/10.2527/ssasas2015-054).
75. **Smith, W. B.**, J. L. Foster, K. C. McCuistion, L. O. Tedeschi, E. van Santen, and F. M. Rouquette, Jr. 2016. A novel technique for model evaluation and selection of in situ degradation parameters from cattle supplemented with varying levels of DDGS. 5th Grazing Livestock Nutrition Conference, Park City, UT.
76. **Smith, W. B.**, A. B. Norris, F. M. Rouquette, and L. O. Tedeschi. 2016. 055 Development of a conceptual model for integration of the forage-animal interface as a foundation for decision support systems. *J. Anim. Sci.* 95(suppl_1):27. doi: [10.2527/ssasas2017.055](https://doi.org/10.2527/ssasas2017.055).
77. **Smith, W. B.**, F. M. Rouquette, J. L. Kerby, L. O. Tedeschi, J. L. Foster, J. P. Banta, K. C. McCuistion, T. J. Machado, and L. A. Redmon. 2016. 0658 Performance of stocker cattle grazing 'Tifton 85' bermudagrass supplemented with dried distillers' grains on per-animal and per-area bases: A two-year summary. *J. Anim. Sci.* 94(suppl_5):314. doi: [10.2527/jam2016-0658](https://doi.org/10.2527/jam2016-0658).
78. Crossland, W., L. Tedeschi, T. Callaway, M. Miller, **B. Smith** and M. Cravey. 2015. Effects of rotating antibiotic and ionophore feed additives on enteric methane and volatile fatty acid production of steers consuming a high forage diet. *J. Anim. Sci.* 93(Suppl. 2): 725.
79. Crossland, W. L., L. O. Tedeschi, T. R. Callaway, M. Miller, **W. B. Smith**, and M. Cravey. 2015. Effects of rotating antibiotic and ionophore feed additives on enteric methane and volatile fatty acid production of steers consuming a high forage diet. [Abstract] Plains Nutrition Council Spring Conference, San Antonio, TX.
80. **Smith, W. B.**, J. L. Foster, K. C. McCuistion, S. J. Abatti, M. Lesak and F. M. Rouquette, Jr. 2015. In situ degradation parameters of three chronological maturities of 'Tifton 85' bermudagrass from cattle supplemented with varying levels of distillers' dried grains. [Abstract] South Central American Registry of Professional Animal Scientists Annual Meeting, Texarkana, AR.
81. **Smith, W. B.**, T. J. Machado, L. O. Tedeschi, J. P. Banta, J. L. Foster, K. C. McCuistion, C. R. Long and F. M. Rouquette, Jr. 2015. Effects of level of DDG supplemented on pasture to performance in feedlot and carcass traits. [Abstract] Plains Nutrition Council Spring Conference, San Antonio, TX.
82. **Smith, W. B.**, F. M. Rouquette, J. L. Kerby, L. O. Tedeschi, J. L. Foster, J. P. Banta, K. C. McCuistion and T. J. Machado. 2015. Performance of Bos indicus versus Bos taurus cattle grazing 'Coastal' bermudagrass supplemented with distillers dried grains. *J. Anim. Sci.* 93(Suppl. 2): 207.
83. **Smith, W. B.**, F. M. Rouquette, J. L. Kerby, L. O. Tedeschi, J. L. Foster, J. P. Banta, K. C. McCuistion and T. J. Machado. 2015. Performance of stocker cattle grazing 'Tifton 85' bermudagrass supplemented with distillers dried grains. *J. Anim. Sci.* 93(Suppl.1):26.
84. **Smith, W. B.**, L. O. Tedeschi, W. L. Crossland, M. Miller, T. R. Callaway, L. A. Redmon, and F. M. Rouquette, Jr. 2015. In vitro digestibility, digestion kinetics and gas production potentials of 'Coastal' or 'Tifton 85' bermudagrass supplemented with varying levels of distillers' dried grains. [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2015), Minneapolis, MN.
85. Cummins, R. R., K. P. Coffey, N. E. Jack, K. Jogan, E. E. Gbur, R. T. Rhein, D. Philipp, M. Adams, **W. B. Smith**, and K. N. Clayton. 2014. Palatability of teff grass in horses. *J. Anim. Sci.* 92(Suppl. 1):41.

86. Drane, T. N., **W. B. Smith**, J. D. Caldwell, K. P. Coffey, A. N. Young, E. A. Backes, B. C. Shanks, and J. Scaggs. 2014. Magnesium bioavailability from dolomitic limestone using ram lambs. *J. Anim. Sci.* 92(Suppl. 1):42-43.
87. **Smith, W. B.**, K. P. Coffey, J. D. Tucker, D. S. Hubbell, III, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2014. Production, digestion and ruminal fermentation by beef cattle limit-fed co-product feedstuffs. *J. Anim. Sci.* 92(Suppl. 1):14.
88. **Smith, W. B.**, K. P. Coffey, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2014. Nitrogen use efficiency and carbon footprint by beef cattle limit-fed co-product feedstuffs. *J. Anim. Sci.* 92(Suppl. 2): 276.
89. **Smith, W. B.**, F. M. Rouquette, Jr., G. R. Smith, E. C. Brummer, T. J. Butler, and J. H. Bouton. 2014. A technique to evaluate persistence of small grain cultivars under grazing conditions. [\[Abstract\]](#). ASA, CSSA and SSSA International Annual Meetings, Long Beach, CA.
90. **Smith, W. B.**, K. P. Coffey, E. B. Kegley, J. D. Caldwell, A. N. Young, E. A. Backes, J. Kanani, and D. Philipp. 2013. Intake and digestibility of heat-damaged hay by Katahdin ewes. *J. Anim. Sci.* 91(Suppl. 2):80.
91. **Smith, W. B.**, E. A. Backes, J. D. Caldwell, K. P. Coffey, and A. N. Young. 2013. Forage intake and digestibility by Katahdin ewes offered bermudagrass hay supplemented with apple cider vinegar. *J. Anim. Sci.* 91(Suppl. 2):267.
92. **Smith, W. B.**, E. A. Guertal, E. van Santen, R. B. Muntifering, and D. M. Ball. 2012. Annual ryegrass (*Lolium multiflorum* Lam.) production and quality as influenced by planting date and irrigation during early seedling development. [\[Abstract\]](#) Annual Meeting of the Southern Branch of the American Society of Agronomy, Birmingham, AL.
93. **Smith, W. B.**, R. B. Muntifering, E. van Santen, E. A. Guertal, and D. M. Ball. 2012. Annual ryegrass (*Lolium multiflorum* Lam.) production and quality as influenced by planting date and irrigation during early seedling development. *J. Anim. Sci.* 90(Suppl. 1):3.
94. **Smith, W. B.**, R. B. Muntifering, E. van Santen, S. L. Dillard, E. A. Guertal, and D. M. Ball. 2012. Evaluation of forage quality predictors in early- and late-maturing cultivars of annual ryegrass (*Lolium multiflorum* Lam.). *J. Anim. Sci.* 90(Suppl. 3): 726.
95. **Smith, W. B.**, R. B. Muntifering, E. van Santen, E. A. Guertal and D.M. Ball. 2010. Quality components of annual ryegrass (*Lolium multiflorum* Lam.) as influenced by date of planting and cultivar. [\[Abstract\]](#) National Conference on Undergraduate Research, Missoula, MT.
96. **Smith, W. B.**, E. A. Guertal, E. van Santen, R. B. Muntifering and D. M. Ball. 2009. Yield of annual ryegrass (*Lolium multiflorum* Lam.) as influenced by early development irrigation and date of planting. [\[Abstract\]](#) National Conference on Undergraduate Research, La Crosse, WI.
97. **Smith, B.**, E. Guertal, D. Ball, R. B. Muntifering and E. van Santen. 2009. Enhancing winter productivity of annual ryegrass (*Lolium multiflorum* Lam.) through early seeding and supplemental irrigation. [\[Abstract\]](#) 63rd Southern Pasture and Forage Crop Improvement Conference, Lexington, KY. p. 68.

TEACHING EXPERIENCE

Instruction

Professor of Record

Auburn University

Fall 2021 to present

- | | |
|--|------------------------------------|
| • ANSC 3420: Applied Animal Feeding and Nutrition
Total students: 184 | Fall 2021, 2022; Spring 2022, 2023 |
| • ANSC 7400: Ruminant Nutrition
Total students: 17 | Summer 2024 |
| • CSES 5500/6500: Forage Production and Utilization
Total students: 184 | Spring 2022, 2023, 2024 |

Professor of Record

Tarleton State University

Fall 2017 to Summer 2021

- | | |
|---|-------------------|
| • AGNR 1188: Introduction to Research
Total students: 15 | Fall 2019 |
| • AGRI 1419: General Animal Science (laboratory only)
Total students: 94 | Fall 2018 |
| • ANSC 2101: Animal Science Industry
Total students: 125 | Fall 2017 |
| • ANSC 3301: Livestock Management
Total students: 45 | Summer 2018, 2019 |

- ANSC 3303: Pastures and Forages Fall 2019; Spring 2021
Total students: 68
- ANSC 3308: Principles of Animal Nutrition Fall 2019, 2020; Spring 2020; Summer 2021
Total students: 225
- ANSC 3309: Applied Animal Nutrition and Feeding Spring 2021; Summer 2021
Total students: 77
- ANSC 3409: Feeds and Feeding Fall 2020; Summer 2020
Total students: 50
- ANSC 4086: Animal Science Problems
 - Survey of Animal Nutrition (1 student) Spring 2018
 - Applications in Swine Production (1 student) Summer 2018
 - Undergraduate Research in Ruminant Nutrition (2 students) Fall 2018
 - Laboratory Experience in Herbivore Nutrition (1 student) Spring 2019
 - Undergraduate Research in Herbivore Nutrition (1 student) Spring 2019
 - Rabbit Production (1 student) Summer 2019
 - Beef Cattle Management Decisions (1 student) Spring 2020
- ANSC 4300: Research and Writing in Animal Science Summer 2018
Total students: 15
- ANSC 4303: Beef Cattle Production Fall 2017; Spring 2018, 2019, 2020; Summer 2019
Total students: 178
- ANSC 4306: Animal Nutrition Fall 2018; Spring 2018, 2019
Total students: 134
- ANSC 4320: Stocker Cattle Production and Feedlot Management Fall 2018
Total students: 14
- ANSC 4440: Sustainable Livestock Systems Summer 2020
Total students: 20
- ANSC 5086: Animal Science Problems
 - Forage Biology and Physiology (3 students) Summer 2018
 - Survey of Animal Nutrition Fall 2018
 - Marketing of Meat Rabbits Summer 2019
- ANSC 5088: Thesis Fall 2018, 2019; Spring 2020
Total students: 3
- ANSC 5090: Special Topics in Animal Science
 - Experimental Designs in Agriculture (14 students) Spring 2018
 - Physiology and Functionality of Hormones Spring 2019
- ANSC 5301: Experimental Design in Agriculture Spring 2019, 2021
Total students: 32
- ANSC 5302: Forage Biology and Physiology Spring 2020
Total students: 7
- ANSC 5303: Rumen Microbiology Fall 2019
Total students: 5
- ANSC 5304: Ruminant Nutrition Fall 2018, 2020
Total students: 22
- ANSC 5320: Stocker Cattle Production and Feedlot Management Fall 2018
Total students: 4

Guest Lecturer

Fall 2017 to Spring 2021

Tarleton State University

- ANSC 2101: Animal Science Industry Fall 2019
- ANSC 4185: Senior Seminar Fall 2017, 2018, 2019, 2020; Spring 2018, 2019, 2020, 2021

Guest Lecturer

Spring 2016 to Spring 2017

Texas A&M University

- ANSC 320: Principles of Nutrition Spring 2016, 2017
- ANSC 406: Beef Cattle Production and Management Fall 2016; Spring 2017

William Brandon Smith

- SCSC 644: Forage Ecology and Management Spring 2016

Graduate Teaching Assistant

Spring 2015 to Fall 2015

Texas A&M University

- SCSC 301: Introduction to Soil Science Laboratory Fall 2015; Spring 2015

Guest Lecturer

Spring 2014

University of Arkansas

- ANSC 3143: Principles of Nutrition Spring 2014

Graduate Teaching Assistant

Spring 2013 to Fall 2013

University of Arkansas

- ANSC 3143: Principles of Nutrition Spring 2013
- ANSC 3151: Applied Animal Nutrition Fall 2013

Non-Credit Instruction and Workshops

Practitioner

Fall 2014 to present

American Society of Agronomy

- Statistical Training for Forage and Grazinglands Researchers Fall 2014
- Analysis of Grazing Data II – Regression Techniques Fall 2015
- Analyzing Repeated Measures Data Fall 2017
- SAS Workshop: A Picture is Worth 10⁴ Words Fall 2018
- SAS Workshop: Describing the Data Fall 2018
- SAS Workshop: There is No Reason to Reinvent the Wheel Fall 2018
- SAS Workshop: The Two R's of Data Analysis Fall 2018
- Experiment and Treatment Design Matter: A Wrong Analysis is Wrong Whether Conducted in SAS or in R Fall 2019

Courses Developed

AGNR 1188: Introduction to Research

Submitted to curriculum committee: February 2019

Tarleton State University

Course description: Fundamentals of conducting scientific research in agriculture and natural resources. Overview of project development, design, methodology, ethics, and reporting.

AGNR 4088: Undergraduate Research

Submitted to curriculum committee: February 2019

Tarleton State University

Course description: Scientific research under the direction of an assigned faculty mentor. Components of the research project may include, but are not limited to, review of literature, project design, data collection, chemical analysis, data analysis, and synthesis of results for dissemination.

AGNR 4199: Undergraduate Research

Submitted to curriculum committee: February 2019

Tarleton State University

Course description: Synthesis of research results, composition of scientific writing, and presentation of undergraduate research to departmental faculty.

ANSC 3303: Pastures and Forages

Submitted to curriculum committee: October 2018

Tarleton State University

Course description: Identification, management, and utilization of forage crops as it pertains to the production of livestock and related species, including pastures, hay, and silage.

ANSC 3308: Principles of Animal Nutrition

Submitted to curriculum committee: October 2018

Tarleton State University

Course description: An evaluation of the physiological and biochemical processes of digestion, absorption, and metabolism; overview of the major classes of feed nutrients and their ultimate fate within the body of livestock animals.

ANSC 3309: Applied Animal Nutrition and Feeding

Submitted to curriculum committee: October 2018

Tarleton State University

Course description: Application of nutritional concepts; understanding of nutrient requirements and development of appropriate rations for livestock.

ANSC 4320: Stocker Cattle Production and Feedlot Management

Submitted to curriculum committee: December 2017

Tarleton State University

Course description: An in-depth examination of nutrition, marketing, consumer relations, and management of beef cattle stocker and feedlot operations.

ANSC 5301: Experimental Design in Agriculture

Submitted to curriculum committee: December 2017

Tarleton State University

Course description: Common and anomalous designs encountered in conduct of research in the agricultural and environmental sciences. Proper analysis of these designs and common pitfalls in experimental design. Students are expected to enter with a cursory knowledge of introductory statistics.

ANSC 5302: Forage Biology and Physiology

Submitted to curriculum committee: October 2018

Tarleton State University

Course description: Investigation of the biology of forage growth, metabolic pathways of the plant, and physiological response to stressors that contribute to pasture management.

ANSC 5303: Rumen Microbiology

Submitted to curriculum committee: December 2017

Tarleton State University

Course description: Scientific and practical evaluation of the rumen microbiome, with emphasis on functional classes and substrate preferences, and its impact on animal nutrition and performance.

Graduate Student Mentoring

Student name	Degree	Dept., University	Role			Graduation Year
			Chair	Co-chair	Member	
Taylor Jacob Garcia	M.S., ANRS	ASVT, Tarleton	X			2018
Kyla Lee Szemplinski	M.S., ANRS	ASVT, Tarleton			X	2018
Leila Gabriela Villareal Venzor	M.S., ANRS	ASVT, Tarleton			X	2018
Morgan Jeanette Askins	M.S., ANRS	ASVT, Tarleton			X	2019
Jonathan Tadashi Baker	M.S., ANRS	ASVT, Tarleton			X	2019
Russell Curtis Carrell	M.S., ANRS	ASVT, Tarleton			X	2019
Jacob Page Jones	M.S. (NOTH), ANRS	ASVT, Tarleton			X	2019
Megan Kelly Galvin	M.S., ANSC	ASVT, Tarleton	X			2020
Leo Allen Herzberger	M.S., ANRS	WSES, Tarleton			X	2020
Brandie Lynn Preuss	M.S., ANRS	ASVT, Tarleton			X	2020
Abbigail Rita Hines	M.S., ANSC	ASVT, Tarleton	X			2021
Baily Nicole Hooten	M.S., ANSC	ASVT, Tarleton			X	2021
Kristen June Jacobson	M.S., ANSC	ASVT, Tarleton		X		2021
Paxton Lynn Turner	M.S., ANSC	ASVT, Tarleton			X	2021
Lori Anne Cohen	M.S., ANSC	ASVT, Tarleton			X	2022
Sydney Nicole Bassett	M.S., ANSC	ASVT, Tarleton			X	2022
William Taylor Fair	M.S., ANSC	ASVT, Tarleton		X		2022
Brady Jack Fields	M.S. (NOTH), ANSC	ASVT, Tarleton			X	2022
Micayla Hope West	M.S., ANSC	ANSC, Auburn			X	2022
Bethany Simons	M.Ag., CSES	CSES, Auburn			X	2022
Kathryn Nicole Strain	M.S., CSES	CSES, Auburn			X	2022
Katie Corbitt	M.S., ANSC	ANSC, Auburn			X	2023
Alexandra Gachman	M.S., ANSC	ANSC, Auburn			X	2023
Abbigail Rita Hines	Ph.D., ANSC	ANSC, Auburn	X			2024
Abigail Krikorian	M.S., ANSC	ANSC, Auburn			X	2024
Macy Rockwell	M.S., ANSC	ANSC, Auburn	X			2024
Lauren St. Andrew	M.S., ANSC	ANSC, Auburn	X			2024
Anna Grace Underwood	M.Ag., ANSC	ANSC, Auburn			X	2024
Kesner Auguste	M.S., ANSC	ANSC, Auburn	X			
Madison Boone	M.S., ANSC	ANSC, Auburn			X	
Jennifer B. Crabtree	Ph.D., CSES	CSES, Auburn			X	
Mason Blinson Henson	Ph.D., ANSC	ANSC, Auburn			X	
Ashlyn J. Hurst	M.S., ANSC	ANSC, Auburn			X	
K. Abigail Johnson	M.S., ANSC	ANSC, Auburn			X	
Henry Jordan	Ph.D., CSES	CSES, Auburn	X			
Chandler A. Kyle	M.S., ANSC	ANSC, Auburn	X			
Duncan L. McSorley	M.S., ANSC	ANSC, Auburn			X	
Diva Nicole Rigney	M.S., ANSC	ANSC, Auburn	X			
Cynthia Siziba	M.S., ANSC	ANSC, Auburn	X			

William Brandon Smith

Sofia A. Suazo Serrano	M.S., ANSC	ANSC, Auburn			X
Berman E. Espino Valverde	M.S., ANSC	ANSC, Auburn	X		
Marquez L. Wortham	M.S., CSES	CSES, Auburn		X	
Total, M.Ag.			0	0	2
Total, M.S.			9	3	23
Total, Ph.D.			2	0	2

SERVICE AND OUTREACH

Community Involvement

Dancing for the Stars Competitor 2020
Big Brothers Big Sisters of Erath County

Professional Service

Scientific Meetings

Chair, Forages and Pastures Symposium 2021
2021 ASAS-CSAS-SSASAS Annual Meeting and Trade Show
Symposium title: Teaching forages to the animal sciences

Chair, Forages and Pastures Symposium 2020
2020 ASAS-CSAS-WSASAS Annual Meeting and Trade Show
Symposium title: Understanding intake on pastures: How, why, and a way forward

Committee Membership

Ruminant Nutrition Program Committee 2020 to present
American Society of Animal Science

Teaching and Undergraduate Education Program Committee 2020 to 2022
Southern Section, American Society of Animal Science

Forages and Pastures Program Committee 2017 to 2023
American Society of Animal Science

Program Committee, Forage and Grazinglands Division 2016, 2019
Crop Science Society of America

Science Policy Committee 2016
American Society of Agronomy

Graduate Student Committee 2015 to 2016
American Society of Agronomy

International Advisory Committee 2014 to 2022
International Symposium on the Nutrition of Herbivores

Membership Committee 2013 to 2015
American Society of Animal Science

Student Involvement Committee 2013 to 2014
American Society of Animal Science

Outreach Activities

Farmer-to-Farmer Volunteer, Moldova 2020
Cultivating New Frontiers in Agriculture

Superintendent, Homesite Judging Contest 2019
Tarleton FFA Invitational Contest

Superintendent, Homesite Judging Contest 2019
Texas FFA Association Area Career Development Event Competition

Superintendent, Homesite Judging Contest Texas FFA Association State Career Development Event Competition	2019
Superintendent, Land Judging Contest Tarleton FFA Invitational Contest	2019
Superintendent, Land Judging Contest Texas FFA Association Area Career Development Event Competition	2019
Superintendent, Land Judging Contest Texas FFA Association State Career Development Event Competition	2019
Co-superintendent, Homesite Judging Contest Tarleton FFA Invitational Contest	2018
Co-superintendent, Homesite Judging Contest Texas FFA Association Area Career Development Event Competition	2018
Co-superintendent, Homesite Judging Contest Texas FFA Association State Career Development Event Competition	2018
Co-superintendent, Land Judging Contest Tarleton FFA Invitational Contest	2018
Co-superintendent, Land Judging Contest Texas FFA Association Area Career Development Event Competition	2018
Co-superintendent, Land Judging Contest Texas FFA Association State Career Development Event Competition	2018

University Service

Committee Memberships	
Nominations and Awards Committee Department of Animal Sciences, Auburn University	2023 to present
Graduate Committee Department of Animal Sciences, Auburn University	2022 to present
College Honors Committee College of Agricultural and Environmental Sciences, Tarleton State University	2018 to 2021
Curriculum Committee Department of Animal Science and Veterinary Technology, Tarleton State University	2018 to 2021
Research and Scholarship Events Committee Tarleton State University	2018 to 2021
Student Communication Committee College of Agricultural and Environmental Sciences, Tarleton State University	2018
Vision, Mission, and Strategic Planning Committee College of Agricultural and Environmental Sciences, Tarleton State University	2018
Animal and Plant Science Center Building Committee College of Agricultural and Environmental Sciences, Tarleton State University	2017 to 2018
Beef Enterprise Committee College of Agricultural and Environmental Sciences, Tarleton State University	2017 to 2021
Forage Enterprise Committee College of Agricultural and Environmental Sciences, Tarleton State University	2017 to 2021

Graduate Committee Department of Animal Science and Veterinary Technology, Tarleton State University	2017 to 2021
Hunewell Ranch Planning Committee College of Agricultural and Environmental Sciences, Tarleton State University	2017
Sheep/Goat Enterprise Committee College of Agricultural and Environmental Sciences, Tarleton State University	2017 to 2020
Search and Hiring Committees Department Head and Professor Department of Animal Sciences, Auburn University	2023 to present
Assistant Professor in Agricultural Economics Department of Agricultural and Environmental Sciences, Tarleton State University	2020 to 2021
Assistant Professor in Animal Science Department of Animal Science and Veterinary Technology, Tarleton State University	2020 to 2021
Assistant Professor in Agricultural Education (J. C. Haynes) Department of Agricultural and Environmental Sciences, Tarleton State University	2018
Assistant Professor in Plant Ecology (D. Murray) Department of Wildlife, Sustainability, and Ecosystem Sciences, Tarleton State University	2017 to 2018

LEADERSHIP

Offices Held

Secretary SERA41 Regional Project	2023 to 2024
Junior Deacon Twin City Lodge No. 76, Free and Accepted Masons of Alabama	2022 to 2023
Secretary Stephenville Lodge No. 267, Ancient Free and Accepted Masons of Texas	2020 to 2021
Senior Deacon Stephenville Lodge No. 267, Ancient Free and Accepted Masons of Texas	2019 to 2020
Graduate Student Representative National Board of Directors, American Society of Agronomy	2016
Graduate Director National Board of Directors, American Society of Animal Science	2013 to 2015

Committee Leadership

International Chair International Advisory Committee, International Symposium on the Nutrition of Herbivores	2023 to 2027
Committee Chair Ruminant Nutrition Planning Committee, American Society of Animal Science	2023 to 2024
Committee Chair Nominations and Awards Committee, Department of Animal Sciences, Auburn University	2023 to present
Committee Chair Forage Enterprise Committee, College of Agricultural and Environmental Sciences, Tarleton State University	2019, 2020 to 2021
Committee Chair Academic Quadrathlon Regional Committee, Southern Section – American Society of Animal Science	2022 to 2023

Committee Chair Pastures and Forages Planning Committee, American Society of Animal Science	2019 to 2020, 2022 to 2023
Community Chair Animal Agriculture and the Environment Community, American Society of Agronomy	2019
Committee Chair Undergraduate Research Scholars Committee, College of Agricultural and Environmental Sciences, Tarleton State University	2018 to 2020
Community Vice Chair Animal Agriculture and the Environment Community, American Society of Agronomy	2018
Committee Chair Beef Enterprise Committee, College of Agricultural and Environmental Sciences, Tarleton State University	2017 to 2018
Subcommittee Chair Think Tank on the Future of Research Subcommittee, Graduate Student Committee, American Society of Agronomy	2016
Committee Chair Graduate Director Advisory Committee, American Society of Animal Science	2014 to 2015
Committee Chair Student Involvement Committee, American Society of Animal Science	2014 to 2015
Committee Vice Chair Graduate Director Advisory Committee, American Society of Animal Science	2014
University Leadership	
Faculty Advisor Animal Science Academic Quadrathlon Competition Team, Auburn University	2021 to present
Faculty Advisor Block and Bridle Club at Auburn University	2021 to 2023
Faculty Co-advisor Animal Science Academic Quadrathlon Competition Team, Tarleton State University	2019 to 2021
Faculty Research Fellow Office of Research and Innovation, Tarleton State University	2019 to 2020
Faculty Advisor Tarleton Pre-Veterinary Medical Association, Tarleton State University	2018 to 2021
Faculty Advisor Animal Science Academic Quadrathlon Competition Team, Tarleton State University	2017 to 2019
Student Leadership	
Nutrition Section Representative Animal Science Graduate Student Association, Texas A&M University	2016 to 2017
Secretary Animal Science Graduate Student Association, Texas A&M University	2016 to 2017
President Animal Science Graduate Student Association, University of Arkansas	2013 to 2014
Region Conference Delegate Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2011
Grand Chapter Delegate Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2010

Team Captain Auburn University Soil Judging Team	2010 to 2012
President Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2009 to 2011
Grand Chapter Delegate Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2009
Parliamentarian Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2009
Region Conference Delegate Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2009
Team Co-Captain Auburn University Soil Judging Team	2009
Secretary Auburn Agronomy Club, Auburn University	2008 to 2010
College of Agriculture Senator Auburn University Student Senate	2008 to 2009
Treasurer Block and Bridle Club, Auburn University	2008 to 2009
Chapter President Slocomb FFA Chapter	2006 to 2007
State Secretary Alabama FFA Association	2006 to 2007
Chapter Vice President Slocomb FFA Chapter	2005 to 2006
District Secretary South District, Alabama FFA Association	2005 to 2006
Acting District Treasurer South District, Alabama FFA Association	2004 to 2005
Chapter Sentinel Slocomb FFA Chapter	2004 to 2005

AWARDS AND HONORS

Professional Awards

Distinguished Young Educator, Non-Land Grant Agriculture and Renewable Resource Universities Association of Public and Land-Grant Universities	2021 virtual
Educator Award North American Colleges and Teachers of Agriculture	2021 virtual
Outstanding Early Career Animal Scientist: Education Southern Section, American Society of Animal Science	2021 Louisville, KY
Emerging Scholar Southern Section, American Society of Animal Science	2017 Franklin, TN

University Awards

Outstanding Junior Faculty (university-level)

Tarleton State University

2020

Stephenville, TX

Outstanding Junior Faculty (college-level)

College of Agricultural and Environmental Sciences, Tarleton State University

2020

Stephenville, TX

Outstanding Junior Faculty (college-level)

College of Agricultural and Environmental Sciences, Tarleton State University

2019

Stephenville, TX

Scholarship of Teaching and Learning, Cohort VI

Center for Instructional Innovation, Tarleton State University

2019 to 2020

Stephenville, TX

Engaged Scholar Academy

Center for Transformative Learning, Tarleton State University

2018 to 2019

Stephenville, TX

Student Awards

Future Leader in Science

American Society of Agronomy

2017

Washington, DC

Early Career Travel Grant

5th Grazing Livestock Nutrition Conference

2016

Park City, UT

Graduate Travel Scholarship

Animal Science Graduate Student Association, Texas A&M University

2016

College Station, TX

Special Achievement Award for Graduate Student Teaching

Department of Soil and Crop Sciences, Texas A&M University

2016

College Station, TX

Vice Chancellor's Award in Excellence for Graduate Student Research

Texas A&M AgriLife Research

2016

College Station, TX

First Place, Graduate Student Competition

Animal Agriculture and the Environment Community, American Society of Agronomy

2015

Minneapolis, MN

First Place, Graduate Student Competition

South Central Chapter, American Registry of Professional Animal Scientists

2015

Texarkana, AR

Second Place Individual, Graduate Presentation Competition

Southern Section, American Society of Animal Science

2014

Dallas, TX

Third Place, Robert F. Barnes Graduate Student Competition

Forage and Grazinglands Division, Crop Science Society of America

2014

Long Beach, CA

Outstanding Master of Science Student

Department of Animal Science, University of Arkansas

2014

Fayetteville, AR

Wilson J. Pond International Travel Award

American Society of Animal Science

2014

Kansas City, MO

Second Place in Division

From Abstract to Contract: Graduate Student Research and Creative Expression Competition

2013

Fayetteville, AR

Third Place in Division

Gamma Sigma Delta Student Research Competition

2013

Fayetteville, AR

First Place, Undergraduate Poster Competition

Southern Section, American Society of Agronomy

2012

Birmingham, AL

First Place, Undergraduate Presentation Competition

Southern Section, American Society of Animal Science

2012

Birmingham, AL

Second Place Team, Animal Science Academic Quadrathlon Southern Section, American Society of Animal Science	2012 Birmingham, AL
Chapter Service Key Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2011 Auburn, AL
First Place Individual National Soil Judging Contest, Soil Science Society of America	2011 Bend, OR
First Place Team, Animal Science Academic Quadrathlon Auburn University	2011 Auburn, AL
Second Place Team National Soil Judging Contest, Soil Science Society of America	2011
Third Place Team Southeastern Regional Soil Judging Contest, Soil Science Society of America	2011 Morgantown, WV
American FFA Degree National FFA Organization	2010 Indianapolis, IN
Brother of the Year (Inaugural Award) Gamma Omicron Chapter, Phi Sigma Pi National Honor Fraternity	2010 Auburn, AL
Seventh Place Individual Southeastern Regional Soil Judging Contest, Soil Science Society of America	2010 Athens, GA
Doug Davis Senator of the Year Auburn University Student Senate	2009 Auburn, AL
Second Place, William R. Gwin, Jr., Outstanding Research Presentation Award Auburn University Undergraduate Research Forum	2009 Auburn, AL
Future Farmer/Agribusinessman of the Year Alabama FFA Association	2007 Auburn, AL

ORGANIZATIONAL MEMBERSHIPS

Professional Organizations

American Dairy Science Association	2014; 2018
American Forage and Grassland Council	2010 to present
American Registry of Professional Animal Scientists	2012 to present
American Society of Agronomy	2007 to present
American Society of Animal Science	2011 to present
American Statistical Association	2015 to present
Council on Undergraduate Research	2018 to 2019, 2020 to 2021
Crop Science Society of America	2007 to present
North American Colleges and Teachers of Agriculture	2018 to present
Soil Science Society of America	2007 to 2017

Industry and Commodity Organizations

Alabama Cattleman's Association	2004 to 2012; 2015; 2021 to present
Arkansas Cattleman's Association	2013

American Rabbit Breeders Association	2019 to 2021
Texas and Southwestern Cattle Raisers Association	2015 to 2017

Scholastic Alumni Organizations

Arkansas Alumni Association	2014
Auburn University Alumni Association	Lifetime Member
Auburn University College of Agriculture Alumni Association	Lifetime Member (since 2012)

Civic Organizations

Stephenville Chapter No. 140, Royal Arch Masons of Texas	2020 to present
Stephenville Council No. 85, Royal and Select Masters of Texas	2021 to present
Stephenville Lodge No. 267, Ancient Free and Accepted Masons of Texas	2019 to present
Twin City Lodge No. 76, Free and Accepted Masons of Alabama	2012 to present

CERTIFICATIONS

Effective College Instruction	July 2020
American Council on Education/Association of College and University Educators	Stephenville, Texas
Fellow, Academy of Future Faculty	April 2016
Center for Teaching Excellence, Texas A&M University	College Station, Texas
Professional Animal Scientist, Dairy Cattle Specialization	April 2014
American Registry of Professional Animal Scientists	Champaign, IL
Professional Animal Scientist, Beef Cattle Specialization	August 2012
American Registry of Professional Animal Scientists	