

Dr. Whitney Crossland

Texas Tech University
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Education & Professional Appointment

Ph D, Animal Science, Texas A&M University, 2018.
MS, Animal Science, Texas A&M University, 2011.
BS, Animal Science, Texas A&M University, 2008.

Assistant Professor of Animal Nutrition, Texas Tech University. (March 2018 - Present).

TEACHING

Courses Taught

Texas Tech University

ANSC 1401, General Animal Science
ANSC 3301, Principles of Nutrition
ANSC 4001, Special Problems in Animal Science: Comparative Beef Production Tour
ANSC 5001, Problems in Animal Science: Comparative Beef Production Tour
ANSC 5311, Ruminant Nutrition

Non-Credit Instruction

Undergraduate Academic Advising – 77 students

Directed Student Learning

Graduate

- **Allie Martin**, Master's Thesis Committee Chair, "Evaluation of melatonin as an adjuvant in the immunization protocol of dairy and beef calves.," Animal & Food Sciences, TTU. (September 1, 2020 - Present).
- **Miranda Stotz**, Master's Thesis Committee Chair, "Improving beef production efficiency through alternative feed and health protocols," Animal & Food Sciences, TTU. (September 1, 2018 - August 31, 2020).
- **Sebastian Mejia**, Master's Thesis Committee Member, Animal & Food Sciences, TTU. (January 1, 2018 - December 31, 2019).
- **Andrea Marcela Osorio Doblado** Master's Thesis Committee Member, Animal & Food Sciences, TTU. (September 1, 2018 - August 31, 2020).
- **Madeline Rivera**, Doctoral Dissertation Committee Member, Animal Science, TAMU, September 1, 2018 - Present).

Undergraduate

- **Victoria Fischer**, TrUE Scholar Research Supervisor, Animal & Food Sciences, TTU "Effect of a direct fed microbial on the growth and performance of beef calves after successive restraint by handlers". 2021-2022
- **Mia Lopez**, TrUE Scholar Research Supervisor, Animal & Food Sciences, TTU. "Effect of a direct fed microbial on the fecal characteristics of beef calves after successive restraint by handlers" 2021-2022
- **Ryan Lopez**, TrUE Scholar Research Supervisor, Animal & Food Sciences, TTU. "Effect of a direct fed microbial on the maintenance behaviors of beef calves after successive restraint by handlers" 2021-2022

- **Makenna McDaniel**, TrUE Scholar Research Supervisor, Animal & Food Sciences, TTU. Proposal: "Effects of injectable melatonin on weaning behavior of beef calves." 2021-2022.

RESEARCH

Published Intellectual Contributions (last 5 years)

- Stotz, M. K., Henry, D., Crossland, W. (2021). Characterization of bacterial DNA identified in abscessed and non-abscessed bovine hepatic tissue at the time of harvest, *Journal of Animal Science*, 2021; skab280, <https://doi.org/10.1093/jas/skab280>
- Norris, A. B., Crossland, W. L., Tedeschi, L. O., Foster, J. L., Muir, J. P., Pinchak, W. E., & Fonseca, M. A. (2020). Inclusion of quebracho tannin extract in a high-roughage cattle diet alters digestibility, nitrogen balance, and energy partitioning. *Journal of animal science*, 98(3), skaa047. <https://doi.org/10.1093/jas/skaa047>
- Smith, W. B., Miller, M. D., Crossland, W. L., Callaway, T. R., Tedeschi, L. O., & Rouquette Jr, F. M. (2020). In vitro gas production including methane from bermudagrasses supplemented with dried distillers grains with solubles. *Applied Animal Science*, 36(2), 172-182. 10.15232/aas.2019-01916
- Stotz, M. K., Henry, D., Crossland, W. (2020). Evaluation of Immunoglobulin-Y in Place of Tylosin Phosphate in the Diets Fed to Holstein Steers and Preliminary Analysis of Liver Abscess Duration on Animal Growth Performance. *Translational Animal Science*. <https://doi.org/10.1093/tas/txaa225>.
- Mejia-Turcios, S. E., Stotz, M. K., Osorio, A. M., Urso, P. M., Jennings, T. G., Espinoza, N., Kondratovich, L., Carvalho, L. F., Sandes, M. D., Sarturi, J., DiLorenzo, N., Crossland, W., Henry, D. (2019). *Effects of bismuth subsalicylate and calcium-ammonium nitrate on in vitro fermentation of a high-concentrate substrate*. (vol. 97, pp. 35-35). JOURNAL OF ANIMAL SCIENCE.
- Crossland, W., Cagle, C. M., Sawyer, J. E., Callaway, T. R., Tedeschi, L. O. (2019). Evaluation of active dried yeast in the diets of feedlot steers. II. Effects on rumen pH and liver health of feedlot steers. *Journal of Animal Science*, 97(3), 1347-1363.
- Crossland, W. (2019). Evaluation of active dried yeast in the diets of feedlot steers: I. Effects on feeding performance traits, the composition of growth, and carcass characteristics. *Journal of Animal Science*, 97(3), 1335-1346.
- Crossland, W., Shaw, J. P., O'Leary, C., Gill, J., Liu, M. (2019). Complete genome sequence of *Citrobacter freundii* siphophage sazh. *Microbiology Resource Announcements*, 8(50).
- Crossland, W., Norris, A. B., Tedeschi, L. O., Callaway, T. R. (2018). Effects of active dry yeast on ruminal pH characteristics and energy partitioning of finishing steers under thermoneutral or heat-stressed environment. *Journal of Animal Science*, 96(7), 2861-2876.
- Crossland, W., Tedeschi, L. O., Callaway, T. R., Miller, M. D., Smith, W. B., Cravey, M. (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. *Journal of Animal Science*, 95(10), 4554-4567.

SERVICE

University Service

Committee Member Alternate, Institutional Animal Care and Use Committee. (September 2019 - Present).

College Service

Committee Member, CASNR Curriculum Committee. (September 2021 - Present).

Committee Member, CASNR Marketing & Outreach Committee. (September 2018 - 2021).

Dean's Representative for Dissertation Defense, Dean's Representative. (August 2018 - Present).

Department Service

Faculty Advisor, Animal & Food Sciences Academic Quadrathlon Advisor. (September 2019 - Present).

Faculty Advisor, Block & Bridle. (September 2018 - Present).

Committee Member, Thornton Chair Search Committee. (2018)

Special Project or Assignment, Fearless Champion Fall Showcase. (2018, 2019)

Professional Service

Editorial Review Board Member, Journal of Applied Animal Science. (June 2020 - Present).
Reviewer, Journal Article, Journal of Animal Science. (2018 - Present).
Reviewer, Journal Article, Animal Feed Science & Technology. (2018 - Present).

Public Service

Guest Speaker, Texas 4H Livestock Ambassadors Youth Camp, Lubbock, Tx. (2018, 2019, 2020).
Guest Speaker, Texas Pork Leadership Camp, Lubbock, TX. (July 2018).

Awards

University

2021 TTU Alumni Association New Faculty Award
2022 TTU Hemphill-Wells New Professor Excellence in Teaching Award Nominee.