

Megan P. T. Owen

(Formerly Megan P. T. Coleson)

Address:

Texas A&M University – Commerce
College of Agriculture
P.O. Box 3011
Commerce, TX 75429-3011
Office Phone: 903-886-5717
Office Fax: 903-886-5990
Email: Megan.owen@tamuc.edu

Education:

- Doctor of Philosophy in Agricultural Science*** ***Graduated Dec 2017***
Mississippi State University, Mississippi State, MS
Advisor: Dr. Caleb O. Lemley
- Masters of Science in Animal Science*** ***Graduated Aug 2014***
New Mexico State University, Las Cruces, NM
Advisor: Dr. Timothy T. Ross
- Bachelors of Science in Animal Science*** ***Graduated Dec 2009***
New Mexico State University, Las Cruces, NM
- Graduated with honors and held Crimson Scholar Status for four years

Professional Experiences:

- Assistant Professor*** ***Jan 2018 – Present***
College of Agricultural Sciences and Natural Resources, Texas A&M University – Commerce
- Graduate Research Assistant*** ***Jan 2015 – Dec 2017***
Department of Animal and Dairy Sciences, Mississippi State University
Dr. Caleb O. Lemley, Advisor
- *Dissertation titled:* Investigating extra-hepatic steroid and eicosanoid metabolizing enzymes in cattle
 - Funded by the MAFES Research Fellowship
 - Assisted with teaching the Anatomy and Physiology Class as well as various research duties
- Research Assistant II*** ***Aug 2014 – Dec 2014***
Endocrinology Laboratory, New Mexico State University
Dr. Dennis Hallford, Supervisor
- Assisted with preparation of samples and ran radioimmunoassay of various hormones
- Graduate Teaching Assistant*** ***Aug 2012 – Aug 2014***

Department of Animal and Range Sciences, New Mexico State University
Dr. Timothy T. Ross, Advisor

- *Thesis titled:* Increased serum progesterone concentrations and corpora lutea as a result of hCG administration to ewes day 4 post-mating and potential mediators
- Received the Dean's Award of Excellence for Graduate Students in Animal Science; Funded by the Agricultural Experiment Station
- Assisted with management of campus sheep flock; performed breeding soundness exams on breeding rams and rams that were to be sold; and assisted with the breeding program
- Teaching assistant and research duties

Horse Farm Aide

Aug 2011 – Aug 2012

Department of Animal and Range Sciences, New Mexico State University
Joby Priest, Horse Farm Manager

- Assisted with reproductive duties, feeding, and general care of horses on premises
- General maintenance of the farm and facilities

Veterinary Technician

Jan 2011 – Aug 2011

Alpha Equine Breeding Center, Granbury, TX
Dr. M.C. Baker, Veterinarian/Owner

- Assist with multiple aspects of equine reproductive services, foaling out mares, ran plasma into all foals, care of sick and injured foals, general care of horses on the property, and charged with training and mentoring an intern

Breeding Farm Management Internship

Jan 2010 – Dec 2010

Equine Reproduction Laboratory, Colorado State University, Fort Collins, CO
Dr. Jason Bruemmer, Dr. Patrick McCue, and Dr. Elaine Carnevale

- Short Courses were taken in Reproductive Management and Artificial Insemination, Cooled Semen, Frozen Semen, and Foaling and Care of the Newborn Foal
- Taught equine breeding techniques, stallion handling inside and outside of the collection shed, evaluation of fresh, cooled, and frozen semen, intramuscular, intravenous, and subcutaneous injections

Farm Aide

May 2009 - Dec 2009

Department of Animal and Range Sciences, New Mexico State University
Todd Edwards, Farm Manager

- Feeding, working, and general care of livestock (cattle, sheep, goats, and swine), operating heavy farm equipment, general maintenance of the farm and facilities

Refereed Journal Publications:

Sanford, Carla D., **Megan P.T. Owen**, Nicola Oosthuizen, Pedro L. P. Fontes, Kimberley A. Vonnahme, Megan Nelson, Arshi Reyaz, Caleb O. Lemley, Nicolas DiLorenzo, and G. Cliff Lamb. 2020. Effects of administering exogenous bovine somatotropin to beef heifers during the first trimester on conceptus development as well as steroid and eicosanoid metabolizing enzymes. *J. Anim. Sci. Submitted.*

C.O. Lemley*, K.J. Bowers, K.C. Yankey, M.L. Tu, C.G. Hart, C.S. Steadman, K.J. McCarty, **M.P.T. Owen**. 2019. Investigating Ovine Placentome Blood Perfusion using Power

Flow Doppler Ultrasonography. Small Ruminant Research.
<https://doi.org/10.1016/j.smallrumres.2020.106051>

- Owen, Megan**, Emmalee Northrop, Jerica Rich, George Perry, Caitlin Hart, Keelee McCarty, Jun Yang, Debin Wan, Caleb Lemley. 2019. Oxylipin concentrations and hormone metabolizing enzymes in bovine corpora lutea during maternal recognition of pregnancy. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2019.10.003>.
- McCarty, Keelee J., **Megan P. T. Owen**, Caitlin G. Hart, Robyn C. Thompson, Derris D. Burnett, E. Heath King, Richard M. Hopper, and Caleb O. Lemley. 2018. Effect of chronic melatonin supplementation during mid to late gestation on maternal uterine artery blood flow and subsequent development of male offspring in beef cattle. *J. Anim. Sci.* <https://doi.org/10.1093/jas/sky363>.
- Owen, Megan P. T.**, Keelee J. McCarty, Caitlin G. Hart, Christie S. Steadman, and Caleb O. Lemley. 2018. Examining Uterine Endometrial Blood Perfusion Using a Novel Laser Doppler Technique in Angus Cows. *Anim. Reprod. Sci.* 190. 119-126.
<https://doi.org/10.1016/j.anireprosci.2018.01.015>.
- Owen, Megan P. T.**, Emily N. Ferjak, Clay A. Cavinder, Keelee J. McCarty, Kalisha C. Yankey, Caitlin G. Hart, Derris D. Burnett, Thu Dinh, and Caleb O. Lemley. 2017. Effects of body condition score on steroid and eicosanoid enzyme activity in various mare tissues during winter anestrous. *Reprod. Dom. Anim.* DOI: 10.1111/rda.13104.
- Muth-Spurlock, A. M., J. A. Dix, **M. P. T. Coleson**, C. G. Hart, C. O. Lemley, T. M. Schulmeister, G. C. Lamb, and J. E. Larson. 2016. The effect of follicular wave on fertility characteristics in beef cattle. *J. Anim. Sci.* DOI:10.2527/jas2016.0898.
- Coleson, Megan P. T.**, Nicole S. Sanchez, Amanda K. Ashley, Timothy T. Ross, and Ryan L. Ashley. 2015. Human chorionic gonadotropin increases serum progesterone, number of corpora lutea and angiogenic factors in pregnant sheep. *Reproduction*. 150. 43-52.
DOI:10.1530/REP-14-0632.

Abstracts & Proceedings:

- Hisaw, Zachary A., Caleta M. Willis, Kaylee R. Kipp, Douglas Eborn, **Megan P. Owen**. 2020. Effects of supplementing heifers with dietary quercetin during late-gestation. Abstract: 69. 2020 ASAS Southern Section Meeting. Chattanooga, Tennessee. Oral Presentation.
- Kipp, Kaylee R., Douglas Eborn, **Megan P. Owen**. 2020. Mineral Supplementation Effects in Stocker Cattle Performance Grazed on Wheat Seeded Native Pastures. Abstract: 113. 2020 ASAS Southern Section Meeting. Chattanooga, Tennessee. Oral Presentation.
- Hendricks, Meagan, Douglas Eborn, Kaylee R. Kipp, Caleta M. Willis, **Megan P. Owen**. 2020. Performance Effects on Weaned Calves using 3 Weaning Strategies and Nutritional Supplementation. Abstract: 120. 2020 ASAS Southern Section Meeting. Chattanooga, Tennessee. Oral Presentation.
- Owen, Megan P. T.**, Keelee J. McCarty, Melissa M. Steichen, Carla D. Sanford, Luara B. Canal, Pedro L. P. Fontes, Nicky Oosthuizen, Nicolas DiLorenzo, Kim Vonnahme, G. Cliff Lamb, and Caleb O. Lemley. 2017. Effects of Biweekly Administration of

Recombinant Bovine Somatotropin on Steroid Metabolizing Enzymes during Early Gestation. Abstract: 105. ASAS Annual Meeting. Baltimore, Maryland. Ph.D. Poster Competition.

Owen, Megan P. T., Keelee J. McCarty, Kalisha C. Yankey, Christopher N. McGee, Caitlin G. Hart, and Caleb O. Lemley. 2017. Examining Uterine Endometrial Blood Perfusion Using a Novel Laser Doppler Technique in Angus Cows. Abstract: 481. ASAS Annual Meeting. Baltimore, Maryland. Poster Presentation.

McCarty, Keelee J., **Megan P. T. Owen**, Caitlin G. Hart, Kalisha C. Yankey, Robyn C. Thompson, Derris D. Burnett, E. Heath King, Richard M. Hopper, and Caleb O. Lemley. 2017. Effect of Melatonin Supplementation during Mid- to Late- Gestation on Maternal Uterine Blood Flow and Calf Size at Birth. Abstract: 487. ASAS Annual Meeting. Baltimore, Maryland. Poster Presentation.

McCarty, Keelee J., **Megan P. T. Owen**, Caitlin G. Hart, Kalisha C. Yankey, Trent Smith, and Caleb O. Lemley. 2017. Effect of Melatonin Supplementation from Mid- to Late- Gestation on Hair Growth and Skin Temperature of Beef Cattle. Abstract: 71. ASAS Annual Meeting. Baltimore, Maryland. M.S. Poster Competition (1st place).

McGee, Christopher N., **Megan P. T. Owen**, Keelee J. McCarty, Caitlin G. Hart, Kalisha C. Yankey, E. Heath King, Richard M. Hopper, Derris D. Burnett, and Caleb O. Lemley. 2017. Characterizing Fetal Liver and Placental Steroid and Eicosanoid Metabolizing Enzymes from Dams Supplemented with Melatonin. Abstract: 121. ASAS Annual Meeting. Baltimore, Maryland. Undergraduate Poster Competition (3rd place).

Yankey, Kalisha C., **Megan P. T. Owen**, Emily N. Ferjak, Clay A. Cavinder, Keelee J. McCarty, Caitlin G. Hart, Derris D. Burnett, Thu T. N. Dinh, and Caleb O. Lemley. 2017. Effect of Body Condition Score on Steroid and Eicosanoid Metabolizing Enzymes in Various Horse Tissues. Abstract: 120. ASAS Annual Meeting. Baltimore, Maryland. Undergraduate Poster Competition.

Larson, Jamie E., Gunnar R. Dunham, Kalisha C. Yankey, **Megan P.T. Owen**, Melissa M. Steichen, Keelee J. McCarty, Amanda E. Stone, and Caleb O. Lemley. 2017. Additional exercise among grazing dairy cows and effects on uterine blood flow, milk production, and milk composition. Abstract: 516. ASAS Annual Meeting. Baltimore, Maryland. Poster Presentation.

Coleson, Megan P. T., Emmalee J. Northrop, Jerica J. J. Rich, George A. Perry, Caitlin G. Hart, Keelee J. McCarty, and Caleb O. Lemley. 2016. Effect of pregnancy on steroid and eicosanoid metabolizing enzymes in bovine reproductive tissues. Abstract: 1053. Joint Annual Meeting. Salt Lake City, Utah. Poster Presentation.

McCarty, Keelee J., **Megan P. T. Coleson**, Sambhu M. Pillai, Maria L. Hoffman, Amanda K. Jones, Kristen E. Govoni, Sarah A. Reed, Steven A. Zinn and Caleb O. Lemley. 2016. Effects of maternal nutrition during gestation on placental steroid metabolizing enzyme activity in sheep. Abstract: 208. Joint Annual Meeting. Salt Lake City, Utah. Poster Competition; Placed 2nd.

Coleson, Megan P. T., Christa L. Gilfeather, Kimberly A. Vonnahme, and Caleb O. Lemley. 2015. Ovine maternal nutrient restriction from mid to late gestation induces steroid metabolizing enzyme activity in maternal and fetal reproductive and liver tissues. Abstract: M221. Joint Annual Meeting. Orlando, Florida. Poster Presentation.

- Coleson, Megan P. T.**, R. L. Ashley, and T. T. Ross. 2014. Effects of hCG administration in ewes post mating on production of 3β -hydroxysteroid dehydrogenase, steroidogenic acute regulatory protein, and interferon-stimulated gene 15. Proc. West. Sec. Am. Soc. Anim. Sci. 65: 203-206. Poster Presentation.
- Sanchez, N.S., **M. P. T. Coleson**, T. T. Ross, K. E. Quinn, A. K. Ashley, and R. L. Ashley. 2014. Expression of Membrane Progesterone Receptors and Select Angiogenic Factors, are Altered in Ewes Treated with hCG. Proc. West. Sec. Am. Soc. Anim. Sci. 65.
- Stewart, Whit, Eric Scholljegerdes, Shad Cox, Tim Ross, Richard Dunlap, **Megan Coleson**, Daniel Fellwock, Ronald Pope, and Faron Pfeiffer. 2014. Commercial Rambouillet and South African Meat Merino (SAMB) crossbred rams: growth, feed efficiency, wool and ultrasound carcass characteristics. Proc. Corona Range and Livestock Res. Center 2014 Field Day.
- Buck, C. M., N. M. Rodriguez, F. R. Melgar, L. H. Schmitz, A. L. Salazar, K. H. Marchetti, B. E. Bonfantini, S. L. Lodge-Ivey, **M. P. T. Coleson**, C. B. Gardner, J. R. Graves, and E. J. Scholljegerdes. 2014. Effects of ad libitum supplement containing increasing levels of microalgae, *Scenedesmus* sp., on site and extent of digestion in beef heifers consuming a forage-based diet. Proc. West. Sec. Am. Soc. Anim. Sci. 65: 74-78.
- Coleson, M. P. T.**, C. M. Richardson, R. L. Ashley, K. E. Quinn, C. A. Gurule, R. A. Halalsheh, D. M. Hallford, and T. T. Ross. 2013. Effects of human chorionic gonadotropin administration in ewes post mating on serum progesterone concentration and number of corpora lutea and concepti. Proc. West. Sec. Am. Soc. Anim. Sci. 64: 84-87. Graduate Student Paper Competition; Oral Presentation.

Extension Publications:

- Stewart, Whit, Eric Scholljegerdes, Shad Cox, Tim Ross, Richard Dunlap, **Megan Coleson**, Daniel Fellwock, Ronald Pope, and Faron Pfeiffer. 2014. Commercial Rambouillet and South African Meat Merino (SAMB) crossbred rams: growth, feed efficiency, wool and ultrasound carcass characteristics. Proc. Corona Range and Livestock Res. Center 2014 Field Day.
- Lemley, Caleb O., Keelee J. McCarty, **Megan P. T. Coleson**, and Caitlin G. Hart. 2016. Programming postnatal growth of calves born to beef cattle treated with melatonin during the last third of pregnancy. Abstract for Mississippi State University 2016 Beef Unit Field Day.
- Coleson, Megan P. T.**, Keelee J. McCarty, Caitlin G. Hart, and Caleb O. Lemley. 2016. Utilization of uterine biopsies and uterine blood perfusion to examine the uterine environment throughout the estrous cycle of Angus cows. Abstract for Mississippi State University 2016 Beef Unit Field Day.

Oral Presentations:

- Departmental Seminar. Department of Animal and Dairy Science, Mississippi State University. September 2016. *Evaluating Placental Efficiency as a Breeding Value in Pigs*.

Departmental Seminar. Department of Animal and Dairy Science, Mississippi State University. February 2016. *Oxytocin: You won't be let down.*

Departmental Seminar. Department of Animal and Dairy Science, Mississippi State University. November 2015. *Fetal Programming: Differences Between Cattle and Sheep.*

Departmental Seminar. Department of Animal and Dairy Science, Mississippi State University. April 2015. *Investigating the effects of intra-vaginal infusion of resveratrol in nonpregnant cattle: a research proposal seminar.*

Neumann Competition. Department of Animal and Range Sciences, New Mexico State University. April 2013. *Effects of human chorionic gonadotropin administration in ewes post-mating on serum progesterone concentration and number of corpora lutea and concepti.*

Departmental Seminar. Department of Animal and Range Sciences, New Mexico State University. October 2012. *How does hCG increase serum progesterone concentrations when administered to ewes?*

Poster Presentations:

Dunham, G. D., J. E. Larson, C. O. Lemley, K. C. Yankey, **M. P. T. Owen**, M. M. Steichen, K. J. McCarty, and A. E. Stone. 2017. Additional exercise among grazing dairy cows and effects on uterine artery blood flow, milk production, and milk quality parameters. Abstract. MSU Undergraduate research symposium: 26.

Dix, J. A., A. M. Muth-Spurlock, **M. P. T. Coleson**, C. G. Hart, C. O. Lemley, and J. E. Larson. 2016. Duration of progesterone exposure and its effects on circulating concentrations of steroid hormones and activities of hepatic steroid-catabolizing enzymes in beef cattle. MSU Undergraduate research symposium: 25.

Sanchez, N. S., **M. P. T. Coleson**, T. T. Ross, A. K. Ashley, R. L. Ashley. 2013. Administration of human chorionic gonadotropin to pregnant ewes alters expression of chemokine receptor 4, membrane progesterone receptors and angiogenic factors. Howard Hughes Memorial Institute Student Summer Symposium at New Mexico State University.

Coleson, M. P. T., C. M. Richardson, R. L. Ashley, K. E. Quinn, C. A. Gurule, R.A. Halalshah, D. M. Hallford, and T. T. Ross. 2013. Effects of human chorionic gonadotropin administration in ewes post mating on serum progesterone concentration and number of corpora lutea and concepti. Corona Range and Livestock Center's Research Day.

Funding:

EquiVibe.com Product Donation

- Received Donation September 2020
 - Equivibe 4080 and matching stocks
 - Valued at \$7745

Texas A&M University – Commerce Undergraduate Research Grants

- Applied September 2019
 - *Effects of Antioxidant Supplementation on Overall Health Parameters and Performance Characteristics in Weaned Pigs*

- Funded: \$490
- *Utilization of Rumen Microbes in Composting Organic Matter*
 - Funded: \$500

Texas A&M University – Commerce Undergraduate Research Grants

- Applied January 2019
 - *Effects of quercetin to sows through the last third of gestation on piglet iron binding capacity and overall health*
 - Funded: \$490
 - *Uterine hemodynamic and piglet health effects on quercetin to sows through the last third of gestation*
 - Funded: \$480

National Pork Board and U.S. Pork Center of Excellence Swine Research and Education Experience Proposal 2018

- Applied October 2018
- Outcome: Not Funded (\$10,000)

USDA Capacity Building Grants for the Non Land Grant Colleges of Agriculture (NLGCA) Program

- Applied May 2018
- Outcome: Not Funded (\$300,000)

Mississippi Agricultural & Forestry Experiment Station: Special Research Initiative for 2016

- Assisted in the production of the grant titled, “Investigating production characteristics of calves born to dams treated with melatonin”
- Applied October 2015
- Outcome: \$ 40,230.00 Funded (January – December 2016)

Mississippi Agricultural & Forestry Experiment Station: Special Research Initiative Progress Report for 2015

- Assisted in the Progress Report for the 2015 grant titled, “Investigating a novel intravaginal therapeutic drug delivery method in cattle”

Ford Foundation Fellowship Programs: Pre-doctoral Fellowships

- Applied November 2013
- Outcome: Not Funded (\$32,000)

Research Mentorship:

Graduate

Genevieve M. D’Souza. May 2018. Effect of Yeast Culture Supplementation on the Performance of High Risk Beef Cattle. *Committee Member.*

Lauren R. Parker. August 2018. Effectiveness of Different Anthelmintic Classes on the Texas A&M University-Commerce Goat Herd. *Committee Member.*

Zachary A. Hisaw. August 2019. Effects of Supplementing Heifers Dietary Quercetin during Late-Gestation on Uterine Artery Blood Flow. *Major Advisor.*

Kaylee R. Kipp. Expected Dec. 2020. Determination of the Efficacy and Resistance of Different Anthelmintic Classes on Beef Calves in North East Texas. *Committee Member*.

Shanon Park. Expected May 2021. Supplementation of Stock-Type Horses with Dietary Antioxidants and the Effects on Distal Limb Blood Flow and Overall Health Status. *Major Advisor*.

Undergraduate

Breanthy N. Baker. May 2018. Comparative Economic Analysis of Beef Calf Preconditioning Programs. *Committee Member*.

Ashlyn Thomas. December 2018. Testing the Reliability of the Use of the Draminski® for Estrus Detection in Heifers. *Committee Member*.

Meagan E. Hendricks. May 2020. Implications of Stress on Beef Calves at Weaning: A study on Fence-Line Weaning. *Committee Member*.

Courtney Ezagui. May 2021. Evaluation of natural anthelmintics in newly weaned calves. *Major Advisor*.

Teaching Responsibilities:

Texas A&M University – Commerce

Graduate:

Endocrinology of Domestic Animals (ANS 512) *Spring 2020*

- Spring 2020: Student Evaluations not collected due to COVID-19

Laboratory Research Techniques (ANS 597) *Spring 2019*

- Spring 2018: Overall Student Evaluation Score of 4.75 out of 5.00 (with 5.00 being excellent)

Undergraduate:

Reproduction of Domestic Livestock with lab (ANS 311) *Fall 2020*

- Fall 2020: Student Evaluations not collected due to COVID-19

Equine Reproduction (EQSC 343) *Spring 2020, 2021*

- Spring 2020: Student Evaluations not collected due to COVID-19
- Spring 2021: Overall Student Evaluation Score TBD out of 5.00 (with 5.00 being excellent)

Feeds & Feeding (ANS 307) *Spring 2018, 2019, 2020*

- Spring 2018: Overall Student Evaluation Score of 4.35 out of 5.00 (with 5.00 being excellent)
- Spring 2019: Overall Student Evaluation Score of 4.72 out of 5.00 (with 5.00 being excellent)
- Spring 2020: Student Evaluations not collected due to COVID-19

Introduction to Animal Science (ANS 1319) *2018 - 2021*

- Spring 2018: Overall Student Evaluation Score of 5.00 out of 5.00 (with 5.00 being excellent)
- Fall 2018: Overall Student Evaluation Score of 4.74 out of 5.00 (with 5.00 being excellent)

- Spring 2019: Overall Student Evaluation Score of 4.70 out of 5.00 (with 5.00 being excellent)
- Fall 2019: Overall Student Evaluation Score of 4.75 out of 5.00 (with 5.00 being excellent)
- Spring 2020: Student Evaluations not collected due to COVID-19
- Summer II 2020: Student Evaluations not collected due to COVID-19
- Fall 2020: Student Evaluations not collected due to COVID-19
- Spring 2021: Overall Student Evaluation Score TBD out of 5.00 (with 5.00 being excellent)

Sheep and Goat Management with lab (ANS 411)

Fall 2019

- Spring 2018: Overall Student Evaluation Score of 4.75 out of 5.00 (with 5.00 being excellent)

Livestock Anatomy & Physiology (ANS 319)

Fall 2018, 2019, 2020

- Fall 2018: Overall Student Evaluation Score of 4.73 out of 5.00 (with 5.00 being excellent)
- Fall 2019: Overall Student Evaluation Score of 4.82 out of 5.00 (with 5.00 being excellent)
- Fall 2020: Student Evaluations not collected due to COVID-19

Companion Animal Management (ANS 415)

Summer I 2018, 2019, 2020

- Summer I 2018: Overall Student Evaluation Score of 4.88 out of 5.00 (with 5.00 being excellent)
- Summer I 2019: Overall Student Evaluation Score of 4.70 out of 5.00 (with 5.00 being excellent)
- Summer I 2020: Student Evaluations not collected due to COVID-19

Livestock Disease & Parasitology (ANS 419)

Summer 2019 & 2020

- Summer II 2019: Overall Student Evaluation Score of 4.43 out of 5.00 (with 5.00 being excellent)
- Summer I 2020: Student Evaluations not collected due to COVID-19

Introduction to Animal Science Laboratory (ANS 1119)

Spring 2018

- Spring 2018: Overall Student Evaluation Score of 5.00 out of 5.00 (with 5.00 being excellent)

Agricultural Internships (AG 405)

Summer II 2018

- Summer II 2018: Overall Student Evaluation Score of 4.64 out of 5.00 (with 5.00 being excellent)

Grayson College

Undergraduate:

Wildlife Conservation and Management (AGRI 2330)

Spring 2021

- Spring 2021: Overall Student Evaluation Score TBD out of 5.00 (with 5.00 being excellent)

Livestock Evaluation (AGRI 2321)

Fall 2020

- Fall 2020: Student Evaluations not collected due to COVID-19

Introduction to Animal Science (AGRI 1319)

Spring 2020

- Spring 2020: Student Evaluations not collected due to COVID-19

- Spring 2020: Student Evaluations not collected due to COVID-19

Mississippi State University

Anatomy and Physiology Laboratory (VS 3014)

2015 & 2016

- Prepared laboratory activities, taught and demonstrated to the students the anatomy and physiology of livestock species in a laboratory setting and prepared and graded all coursework (quizzes, worksheets, and final) for the laboratory
 - Spring 2015: Overall Student Evaluation Score of 4.26 out of 5.00 (with 5.00 being excellent)
 - Fall 2015: Overall Student Evaluation Score of 4.64 out of 5.00 (with 5.00 being excellent)
 - Spring 2016: Overall Student Evaluation Score of 4.69 out of 5.00 (with 5.00 being excellent)
 - Fall 2016: Overall Student Evaluation Score of 4.85 out of 5.00 (with 5.00 being excellent)
 - Fall 2017: Overall Student Evaluation Score of 4.56 out of 5.00 (with 5.00 being excellent)

New Mexico State University

Lambing Barn Management-Special Topics (ANSC 250)

Spring 2014

- Set up laboratories such as vaccinations, determining parturition, ewe and lamb care (which included pre- and post-parturition), methods of docking tails and castration, and preparation/organization of lectures and homework materials

Halter Breaking-Special Topics (ANSC 250)

Fall 2012

- Taught, demonstrated, and monitored a group of students while halter breaking foals, as well as created and graded writing assignments as well as a midterm and final exam

Teaching Assistant Responsibilities:

Mississippi State University

Practice in Physiology and Reproduction (ADS 4611)

2015 & Spring 2016

- Assisted in the preparation and execution of laboratory activities, assisted in the demonstrations of artificial insemination in cattle to students

New Mexico State University

Livestock, Meat, and Wool Evaluation (ANSC 303)

Fall 2014

- Assisted in setting up classes of livestock and carcasses for students to judge, managed attendance records, and graded assignments

Agricultural Animals of the World (ANSC 351V)

Fall 2012, Spring 2014

- Assisted in setting up hands on activities such as breeding soundness evaluations, displaying reproductive tracts, and graded assignments

Introduction to Animal Science Laboratory (ANSC 100L)

Fall 2013

- Prepared laboratory activities and worksheets, taught and demonstrated to the students breeds and species, and basic livestock care and practices

Sheep and Wool Production (ANSC 414) *Spring 2013*

- Assisted in setting up laboratories, such as vaccinations, determining parturition, methods of docking tails and castration, etc, and acted as an assistant for lambing watches

Chemistry Supplemental Instructor for Chemistry 102 *Spring 2012*

- Facilitated two CHEM 102 classes and creating lesson plans, worksheets, and activities relating to the subject

Guest Lectures:

Mississippi State University

Physiology of Reproduction Lecture (ADS 4613) *January 2017*

- Topic: Puberty

Physiology of Reproduction Lecture (ADS 4613) *November 2016*

- Topic: Semen Processing and Artificial Insemination

Growth Development Lecture (ADS 3213) *October 2016*

- Topic: Placental Efficiency and Intrauterine Growth Retardation

Anatomy and Physiology Lecture (VS 3014) *August 2016*

- Topic: Joints

Anatomy and Physiology Lecture (VS 3014) *March 2016*

- Topic: Endocrinology

Anatomy and Physiology Lecture (VS 3014) *March 2016*

- Topic: Respiratory System Physiology

Animal Science (ADS 1113) *November 2015*

- Topic: Reproductive anatomy and physiology

Anatomy and Physiology Lecture (VS 3014) *October 2015*

- Topic: Respiratory anatomy and physiology

New Mexico State University

Agricultural Animals of the World (ANSC 351V) *November 2014*

- Topic: Reproductive anatomy and breeding soundness evaluations in rams

Introduction to Animal Science Laboratory (ANSC 100L) *April 2013*

- Topic: Reproductive anatomy and breeding soundness evaluations in rams

Awards and Honors:

May 2017	2016-2017 College of Agriculture and Life Sciences – North American Colleges and Teachers of Agriculture (CALs/NACTA) Graduate Teaching Award of Merit – Ph.D. Division
April 2017	Outstanding Graduate Student Award – Doctoral Student at Mississippi State University
Jan. 2015	Doctoral assistantship funded by the MAFES Research Fellowship
May 2014	Dean’s Award of Excellence for Graduate Students at New Mexico State University

Aug. 2012	Master's assistantship funded by the New Mexico Agricultural Experiment Stations
Jan. 2010	First NMSU student to be accepted in the Colorado State University Equine Breeding Farm Internship program
2005-2009	Graduated with honors and held Crimson Scholar Status for four years
Dec. 2009	Dean's Award of Excellence for Undergraduate Students at New Mexico State University
Dec. 2009	Outstanding Animal Science Undergraduate Award
March 2008	Society of Animal Science Scholar Award
March 2007	Society of Animal Science Scholar Award

Extension and Departmental Work:

Texas A&M University – Commerce

- Facilitated the regeneration of the Livestock Show Team and recruited students to show animals for the school
 - Grand Overall Champion Boer Buck at the East Texas State Fair 2019
 - Placed top three with two heifers at Four States Fair Open Beef Show and one heifer at the East Texas State Fair 2019
- Assisted with the development of the CASNR video compilation (<https://youtu.be/X51aC2quIEY>) and images to be used for recruitment purposes
- Helped put on the Pre-Vet, Milk quality, and Livestock Judging FFA Area 5 and 6 Career Development Event Contest
- Worked with colleagues to get a new Sheep and Goat Facility established that will be breaking ground in Summer 2020
- Advised over 200 undergraduate students
- Served as the TAMUC Animal Science Representative for the 2018-2019 Sulfur Springs High School Advisory Committee CTE Program

Mississippi State University

- Assisted with various field days (such as the Hereford Field Day, Beef Field Day, Dairy Field Day, and “Trick or Teat” Breakfast on the Farm), Spring 2016 and 2017
- Lectured and assisted with the Cattle Artificial Insemination School, Spring 2015, Spring 2016, Fall 2016, and Spring 2017
- Aided in interactive recruitment opportunities for Academic Insight, 2015 - 2017
- Facilitated in the learning and award of the Animal Science Merit Badge to Boy Scouts participating at Camp Seminole, Summer 2015
- Assisted with the preparation, execution, oral presentations, and quiz bowl for the Mississippi State University Academic Quadrathlon in Fall 2015 - 2016

New Mexico State University

- Assistant Coordinator for the New Mexico State University Academic Quadrathlon and Assistant Coach for the 2013 and 2014 Academic Quadrathlon Team
- Helped with the preparation, execution, and oral presentations for the Diné Sheep Days in 2013
- Assisted with preparation, execution, and oral presentations for the College Degree Days in 2013 and 2014
- Assisted with advising undergraduate students during advising parties and registration for classes to ensure a prompt and successful graduation

- Assisted with various Equine related activities including the Annual Horse and Bull Sale, State 4-H Horse Judging Contest, and the Equine Science Symposium that held in Ruidoso, NM (2013).

Other Activities/Memberships:

Active Memberships

- American Society of Animal Science Member
- American Quarter Horse Association Member
- Member of the National Rifle Association

Alumnus Memberships

- Member of the American Registry of Professional Animal Scientists with emphasis in sheep
- Member of the Mississippi State University Animal and Dairy Sciences Graduate Student Association (Held office of interim president)
- Gamma Sigma Delta, Mississippi State University Chapter
- Gamma Sigma Delta, New Mexico State University Chapter
- New Mexico State University Graduate Student Association of Animal & Range Sciences
 - Held offices of president and representative to the Graduate Student Council
- New Mexico State University Rodeo Team
 - Assisted with several community service organizations: Koats for Kids, Exceptional Rodeo (Las Cruces), and Food Drives for the V.A.
- New Mexico State University Horsemen's Association
 - Assisted in establishing the program, member, and held office as secretary
- Town and Country 4-H Rodeo Club
 - Member and held all officer positions
 - Assisted with several community service organizations
 - Koats for Kids, Exceptional Rodeo (Albuquerque), Food Drives for the V.A., produced youth rodeo's, gained sponsorships for local 4-H chapters