Carly Ann Hoffmann, Ph.D.

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Assistant Professor – Animal Science
Intercollegiate Livestock Judging Team Coordinator
Sam Houston State University

EDUCATION:

Texas A&M University, College Station, TX   December 2023
Doctor of Philosophy in Animal Science   Advisor(s):Dr. Gordon E. Carstens, Dr. Chris L. Skaggs
Specifying in Ruminant Nutrition
Certificate in Extension Education
Members: Dr. Luis Tedeschi, Dr. Scott Cummings

Texas Tech University, Lubbock, TX   August 2019
Master of Science in Animal Science, *Thesis option*   Advisor: Dr. Jhones O. Sarturi
Specifying in Ruminant Nutrition & Beef Cattle Metabolism
Members: Dr. Darren Henry, Dr. Michael Ballou

Texas A&M University, College Station, TX   August 2017
Bachelor of Science in Animal Science
Certificate in Meat Science

TEACHING EXPERIENCE:

Assistant Professor (Animal Science), Sam Houston State University   August 2024 – Current
ANSC 4337 Domesticated Animal Behavior (Undergrad. & Grad. Students)
  – Lecture focused on ethological principles related to the domestication of various animals
    and performing applied behavioral observations
ANSC 3376 Meat Science Lecture and Laboratory
  – Overview of muscle and skeletal biology, conversion of muscle to meat, food-borne
    illnesses, and HACCP. Laboratory focuses on the methods and hands-on practices of
    harvesting, meat preparation, preserving and storing meat
ANSC 2321 Livestock Evaluation
  – Background on phenotypic and genotypic selection criteria of goats, sheep, cattle and swine
    focused on commercial livestock production objectives
ANSC 4310 Animal Growth and Performance (Undergrad. & Grad. Students; Online)
  – Overview of the physiological and endocrine system factors affecting growth and
    performance of domestic animals. Including the study of meat animal growth and
    developmental processes and factors that affect body/carcass composition, carcass quality
    and value.
ANSC 4376 Sheep & Goat Production Lecture & Laboratory
  – Focused on application of basic genetic principles, physiology, and nutrition to practical
    sheep, meat goat, and Angora goat production systems; Hands-on opportunities with
    regard to management; health care: and marketing of animals and fiber.

Assistant Professor of Practice, Sam Houston State University January – August 2024
ANSC 4337 Domesticated Animal Behavior (Undergrad. & Grad. Students)
- Lecture focused on ethological principles related to the domestication of various animals and performing applied behavioral observations

ANSC 3376 Meat Science Lecture and Laboratory
- Overview of muscle and skeletal biology, conversion of muscle to meat, food-borne illnesses, and HACCP. Laboratory focuses on the methods and hands-on practices of harvesting, meat preparation, preserving and storing meat

ANSC 2321 Livestock Evaluation
- Background on phenotypic and genotypic selection criteria of goats, sheep, cattle and swine focused on commercial livestock production objectives

Engaging Exploration Workshop, Sam Houston State University June 2024
Participant
- Selected to attend upcoming voluntary 30-hour faculty teaching workshop focused on observing, evaluating, and collecting a portfolio of innovative teaching approaches, instructional materials, and practical strategies for enhancing student learning

ACE Teaching Workshop, Sam Houston State University February 2024
Participant
- Participated in voluntary teaching workshop hosted by the Center for Community Engagement at Sam Houston State University focused on implementing hands-on activities for students to apply course concepts through a partnership with a community member/organization
- Received an Academic Community Engagement (ACE) Course designation for upcoming Sheep & Goat Production Course in the Fall of 2024

Graduate Teaching Assistant, Texas A&M University September 2019 – December 2023
Animal Science 108: General Animal Science Laboratory, Head Teaching Assistant (11 semesters)
- Overview of livestock (cattle, sheep, goats, swine, horses and poultry) production industries, including information on breeds and selection practices for each specie. Discuss major disciplines of the agriculture industry including nutrition, reproduction, meat science and genetics
- Coordinate and manage 10 graduate teaching assistants under the supervision of Dr. Chris Skaggs. Develop and maintain online learning management system (Canvas and eCampus)

AGLS 101: Modern Agricultural Systems and Renewable Natural Resources (7 semesters)
- Orientation course for first-year students to programs and opportunities in the College of Agriculture & Life Sciences. Expose students to diverse campus resources available as well as different career opportunities and how to best prepare for long-term future career goals
- Evaluate and assist with student development of a professional resume for use with job marketing
- Manage and coordinate guest speakers for each weekly lecture (approximately 150 students) under supervision of Dr.Chris Skaggs as well as develop online learning management system (Canvas)
- Facilitate makeup assignments for students by utilizing Zoom lecture recordings for an online format of course content delivery
- Encourage student centered learning strategies by instructing students on successful and ethical use of artificial intelligence programs such as ChatGPT

Animal Science 101: Introductory Seminar for Animal Science (4 semesters)

- Orientation course for first-year students to programs and opportunities in the animal science department. Create awareness of campus resources for tutoring and financial planning and prepare resume for internship and career opportunities
- Evaluate student development of a professional resume for use with job marketing
- Manage and coordinate guest speakers for each weekly lecture (approximately 300 students) under supervision of Dr.Chris Skaggs as well as develop online learning management system (Canvas)
- Facilitate makeup assignments for students by utilizing Zoom lecture recordings for an online format of course content delivery

Animal Science 111: Animal Production System Laboratory (1 semester)
- Transformative learning experience related to cattle, small ruminant, equine, swine, meats and companion animals as well as exposure to animal science careers
- Develop and formulate weekly lecture and assignments for a group of 25 undergraduate students
- Encourage peer-learning strategies by facilitating in class discussion and team project activities

Animal Science 318: Feeds & Feeding Laboratory (7 semesters)
- Scientific approaches associated with precision livestock feeding and diet formulation with an emphasis on cost-effective ration formulation to optimize animal production while enhancing animal health, welfare and minimizing environmental impact
- Stimulate student learning of group of 25 students by incorporating technology into the classroom, by utilizing interactive-learner software (ie: Kahoots, Zoom polls, etc.) for direct student feedback of course objectives
- Facilitate student learning of livestock feed formulation techniques through a hands-on experiential learning activity under supervision of Dr. Carstens

Texas A&M University Academy for Future Faculty   September 2022 – April 2023
Member
- Participate in weekly professional development workshops centered around college teaching, curriculum vitae, and teaching philosophy design
- Engage in formulation of learning outcomes and the course development cycle, syllabus design, teaching methodology and active learning strategies for improving student engagement

Aggieland Lamb & Goat Camp
Instructor (Appointed)   July 2009 - 2024 (*Annual*)
- Volunteered a minimum of 65 hours annually to assist over 40 junior-high and high-school youth in further developing their showmanship techniques and basic knowledge of nutrition and handling concerning market goats and sheep.

New Student Conference (NSC), Texas A&M University   May – August 2021
Invited Speaker
- Assisted in daily set-up for conference and spoke to groups of approx. 15-50 incoming Animal Science students and their families regarding the Department of Animal Science opportunities and programs offered.

Graduate Teaching Assistant, Texas Tech University   September 2018 - August 2019
Animal Science 4405: Feedlot and Stocker Management (3 semesters)

- Cover stocker and feedlot cattle production topics such as management, health, and nutrition strategies. Hands-on component with field trips to local feedlot and stocker cattle operations.
- Presented material to approximately 85 undergraduate students and evaluated student learning through weekly assignments

Animal Science 3307: Feeds and Feeding (3 semesters)
- Upper-level course covering the characteristics, methods of processing of feedstuffs and nutritional management strategies used within livestock enterprises. Basics of ration formulation techniques of cattle, sheep, goats, horses and swine.
- Developed and presented material over livestock nutrition feed formulation basics to approximately 140 undergraduate level students
- Facilitated a hands-on learning activity by having students engage in feed formulation project centered around collaborating with a local farmer/rancher

Animal Science 1401: General Animal Science, Substitute Lecturer (1 semester)
- Introductory level animal science laboratory component that focuses on basic scientific principles related to the production of livestock such as cattle, sheep, goats, horse and swine
- Prepared and presented lectures to a group of 20 students on livestock production principles related to beef cattle, sheep and goat production

Texas Tech University Groundwork Program, Lubbock, TX   May 2018
Participant
- Engaged in the opportunity for graduate students to learn more about teaching in the college classroom in a face-to-face, program of workshops, discussions, and micro-teaching opportunities.
- Exposed to fundamentals of college teaching such as syllabus and student learning outcome creation, classroom management, active learning, and other strategies for engaging students.

RESEARCH EXPERIENCE:

Sam Houston State University   January 2024 – Current
Faculty Member
- Conduct and develop research focused on improving professor instruction practices to foster a positive learning environment and emphasize higher domains of Blooms Taxonomy as it relates to undergraduate student learning

North American Colleges and Teachers of Agriculture Annual Conference   June 2023
Speaker
- Selected to present research pertaining to active teaching strategies in Animal Science courses at Texas A&M University to aid in student learning and comprehension
- Networked with current academic faculty and staff members with teaching appointments as well as learned about diverse teaching strategies to improve student experience and comprehension of course concepts

Fort Worth Zoo   November 2022 – August 2023
Research Assistant & Student Worker Supervisor
- Organize and design giraffe-based fecal microbiome trial by reviewing current literature over behavior and microbiome.

- Collaborate with Fort Worth Zoo staff to determine optimal trial design to meet objective(s) of study.
- Conduct various methods of laboratory assays and sample collection methods including giraffe fecal sampling and fecal DNA extraction
- Instruct a group of 4 undergraduate student researchers on the basics of reviewing scientific literature and proper fecal collection procedures

Texas A&M University, College Station, TX　　　　　September 2019 – Current
Graduate Researcher
- Conduct research pertaining to sustainability and efficiency in ruminant nutrition consisting of essential oil supplementation to reduce greenhouse gas emissions in ruminant production systems
- Gain research knowledge experience in the following techniques and analyses: GreenFeed system, GrowSafe system, modeling, residual feed intake, feeding behavior, in vitro gas production technique and 16S rRNA microbiome

American Society of Animal Science (ASAS) Annual Meeting　　　July 2018 – 2024 (*Annual*)
- Attend annual ASAS meeting to discuss current topics within the agriculture industry and network with graduate students and academic faculty and staff
- Selected to present over research conducted while at Texas Tech University and Texas A&M University consisting of grain manipulation techniques during the adaptation phase of cattle, feed additive to reduce methane production, a novel method to measure digestibility and evaluating teaching strategies to improve student comprehension of livestock nutrition

Texas Tech University, Lubbock, TX　　　　　January 2018– August 2019
Graduate Research Assistant & Ruminant Nutrition Lab Supervisor
- Conducted research regarding manipulation of digestive processes and metabolism of beef cattle consuming varying levels of processed grain during the adaptation phase.
- Coordinated laboratory assays including continuous culture in vitro procedures, digestive markers (internal and external), Van Soest detergent analysis system, Volatile fatty acid analysis and SF6 gas tracer technique

Texas Tech University Ruminant Nutrition Laboratory　　　September – December 2017
Intern
- Acquired further knowledge and experience regarding Ruminant Nutrition Research and Laboratory procedures including Fiber Analysis, Dry Matter calculations, and Acid Insoluble Ash
- Assisted with various research projects including cattle ruminal cannulation collections, evaluating ruminal tissue samples and data analyses.

SERVICE & OUTREACH:

ASAS Student Graduate Poster Competition Program Committee　　September 2024 – Current
Member (Appointed)
- Organize graduate student (Master and PhD) poster competition events for over 100 student participants and coordinate diverse judges for competition

Speaking Development Event (SDE), Texas FFA Association　　　April 2024 – Current
Co-Chair
- Organize annual State-level Speaking Development Event contest for over 50 youth through the Texas FFA Association including coordinating location, judges, and overseeing day of contest procedures

ASAS Teaching/ Undergraduate & Graduate Education Committee   Dec. 2023 – Current
Committee Member (Appointed)
  - Develop symposia topic, review abstracts, and organize speakers/presentations for annual teaching program (100+ members) hosted through the American Society of Animal Science (ASAS) Annual National Conference

Area IX FFA Career Development Event (CDE) Contest, Huntsville, TX   April 2024
  - Organize and coordinate area-level livestock judging competition for over 75 youth by arranging for various livestock to be utilized, preparing facilities and coordinating with over 20 collegiate volunteers to serve as group-leaders

Saturday at Sam, Huntsville, TX   March 2024
Departmental Representative
  - Visited with over 65 youth and their respective families at annual University recruitment event regarding various degree curriculum, extracurricular activities and opportunities in the Department of Animal Science at Sam Houston State University

Houston Livestock Show & Rodeo, Houston, TX
Collegiate Livestock Judging Contest Official   March 2023, 2024
  - Formulated and supervised selection of sheep and goat classes as well as listened to oral presentations given by over 120 collegiate students.

Livestock Quiz Bowl Official   March 2024
  - Monitored numerous quiz bowl rounds and facilitated question delivery for over 50 youth contestants
  - Assisted with contest activities such as development and accuracy of questions pertaining to all forms of livestock production (reproduction, nutrition, management, etc.)

Collegiate Livestock Judging Contest Intern   March 2021, 2022
  - Assisted with set-up and daily operations of contest activities such as score tabulation, officials, group leading and monitoring of over 100 high-school contestants.

Rodeo Austin, Austin, TX   March 2023, 2024
Beef Cattle Skillathon Co-Chair
  - Facilitated youth contest including contest set-up, officials and daily operations of contest activities for approximately 50 high-school and middle-school contestants.

San Antonio Livestock Show & Rodeo, San Antonio, TX   February 2021 - 2024 (*Annual*)
Beef Cattle Skillathon Contest Official
  - Assisted with set-up, provide officials, and assist with daily operations of contest activities such as score tabulation, group leading and monitoring of over 100 high-school and middle-school contestants.

Youth Public Speaking Contest Judge   February 2024
  - Evaluated speaking ability and relevance of Animal Science topics for over 25 high-school aged youth

Klein FFA Chapter Livestock Show, Klein, TX   January 2024
Livestock Judge
  - Evaluated showmanship skills (sheep, goats, cattle and hogs) of approximately 50 youth at local chapter show event

Sigma Alpha- Alpha Pi Chapter, Texas A&M University   January 2022 – December 2023
Advisor & Alumni
  - Advise professional agricultural sorority comprised of approximately 85 Undergraduate members.

- Facilitate event planning for leadership, community service and sisterhood events as well as approve all financial transactions and enforce constitutional bylaws.

International Livestock Congress (ILC), Houston, TX   March 2022,2023
Student Fellow
- Selected as a Student Fellow for the ILC with 10 other graduate students out of over 250 applicants internationally.
- Attended the ILC conference which discussed hot topics within the agricultural industry such as sustainable beef production, water conservation and positive marketing of beef.

Comal County Junior Livestock Show Association (CCJLSA)   March 2018-2023*(Annual)*
Auction Committee Officer
- Participated in the CCJLSA annual livestock show to support youth livestock projects (hogs, sheep, goats, cattle, poultry).
- Volunteered a minimum of 80 hours as a part of the auction committee by communicating with prospective buyers and leading the financial team in financial assessment and record-keeping of money spent

Texas Agricultural Lifetime Leadership (TALL) Texas A&M Scholar Program   February 2023
Graduate Supervisor
- Coordinated a group of 10 undergraduate students selected for San Antonio Livestock Show & Rodeo TALL Scholar Program
- Supervised round table discussions of current topics within the agricultural industry

State Fair of Texas Livestock Show & Rodeo   October 2022, 2023
Beef Cattle Skillathon Contest Official
- Facilitated the organization and contest events with State Fair of Texas Interns, including set-up of contest and score tabulation.
- Monitored approximately 35 high-school, 30 middle-school and 10 elementary-school youth contestants.

Texas Junior Simmental/Simbrah Association State Futurity   June 2022
Sales Talk Contest Official & Livestock Judging Reasons Official
- Evaluated approximately 135 youth contests ability to market their cattle based upon performance records and phenotypic traits as well as ability to orally defend cattle judging placing

Texas A&M Faculty-led United Kingdom & Ireland Study Abroad   August 2022
Chaperone; Adult Supervisor
- Selected to represent department through international experience and chaperone 40 undergraduate-students through 2.5 weeklong study abroad experience.
- Encouraged the experience of international agricultural systems by visiting numerous agricultural production sites centered around dairy cattle, beef cattle, sheep and produce industry.

Texas A&M Australia Agriculture & Animal Production   July - August 2016
Study Abroad
- Visited many different agricultural sites like mix farms, beef ranches, dairy farms, cattle and horse producers in Queensland, and grain and vegetable growers.
- Attended the Royal Queensland Livestock Show and visit Queensland College of Wine Tourism, the University of New England and its research Institute.

Texas A&M Agrilife Extension Service- Meat Science Department
Student Assistant   April 2016- August 2017

- Assisted the Meat Science Department, specifically Dr. Dan Hale with organizing and hosting various youth contests (Meats judging contests), clinics and extension lead programs such as Beef 706, Pork 101, Commercial Steer Camp and Aggie Processed Meats School.

CERTIFICATIONS:
Texas A&M University Department of Agricultural Leadership & Education Extension Education Certificate – 2023
Texas A&M University Academy for Future Faculty (AFF) – 2023
Masters of Beef Advocacy, Beef Checkoff-funded – 2022
Texas A&M University Center for Teaching Excellence Teaching Assistant Institute - 2019
Texas A&M University Undergraduate Certificate in Meat Science - 2017

AFFILIATIONS & MEMBERSHIPS:
Association of Zoos & Aquariums – 2023, 2024
Comparative Nutrition Society - 2023
North American Colleges and Teachers of Agriculture – 2023, 2024
Zoological Association of America - 2023
Texas A&M University Animal Science Graduate Student Association – 2019 - 2022
American Society of Animal Science - 2018 - 2024
American Meat Science Association – 2016, 2017, 2023
Texas 4-H Adult Leader – 2015 - 2024
Comal County Junior Livestock Show Association - 2007- 2023
Texas A&M University Former Student Association- 2017 – 2024
Texas A&M University Livestock Judging Team – 2017
Texas A&M University Meats Judging Team – 2016
Texas A&M University Processed Meats Judging Team - 2016
American International Charolais Association – 2011, 2016, 2017, 2018
Sigma Alpha Alpha Pi Chapter, Professional Agricultural Sorority - 2014 - 2017, 2022, 2023
Texas A&M University Animal Science Aggie REP – 2015 - 2017
Saddle & Sirloin, Texas A&M University – 2014 - 2017

SCHOLARSHIP/AWARDS/HONORS:
Saddle & Sirloin Little Southwestern, Texas A&M University
Grand Champion Expert Overall Species – April 2023
Grand Champion People's Choice – April 2023
Zoo & Wildlife Nutrition Foundation and AZA Nutrition Advisory Group
Roy McClements Student-Keeper Competition – 1st Place Oral Presentation
Wrangler Cowgirl 30 under 30
Class of 2023 Honorary Inductee – November 2022
Gamma Sigma Delta International Honor Society, Texas A&M University
Outstanding PhD Student – May 2022
SALE-TAMU Student TALL Scholar Program
Inductee – May 2022
International Livestock Congress, Houston Livestock Show & Rodeo

Student Fellow – March 2022
Texas 4-H Comal County Awards
Outstanding Adult Leader – August 2019
Department of Animal & Food Sciences, Texas Tech University
Bob Albin Outstanding MS Graduate Student Research Award – April 2019
Houston Livestock Show & Rodeo
Graduate Student Assistantship - January 2019
National FFA Conference Awards
National American FFA Degree- October 2015
Texas 4-H State Awards
4-H Gold Star Award- October 2012

ORAL PRESENTATIONS:

Zoo and Wildlife Nutrition Foundation and Association of Zoos and Aquariums Nutrition Advisory Group Conference. 2023. Behavior and fecal microbiome of giraffes engaging in a public enrichment activity.

North American Colleges and Teachers of Agriculture Conference. 2023. Students' Perceptions of an Experiential Learning Activity in a Livestock Feed Formulation Animal Science Course.

Texas A&M University Student Research Week. 2023. Testing different concentrations of garlic oil to reduce methane production and alter rumen fermentation parameters: An in vitro study.

Texas A&M University New Student Conference. 2022. Opportunities for undergraduate students to be involved in the Department of Animal Science.

PUBLICATIONS & ABSTRACTS:

Professional Journal Articles

Hoffmann C.A., C.L. Skaggs, G.E. Carstens, S.C. Cummings. Undergraduate Student Perceptions of an Artificial Intelligence Chatbot program in an Upper and Lower-level Agriculture Course. *In Progress for Submission. NACTA*

Hoffmann C.A., C.L. Skaggs, G.E. Carstens, S.C. Cummings. Students' Perceptions of an Experiential Learning Activity in a Livestock Feed Formulation Animal Science Course. *In Progress for Submission. NACTA*

Hoffmann C.A., G.E. Carstens, L.O. Tedeschi. Testing different concentrations of garlic oil to reduce methane production and alter rumen fermentation parameters: An in vitro study. *In Progress for Submission. J. Feed. Sci. Technology*

Hoffmann C.A., G.E. Carstens, M.N. Hall, C.L. Daigle. Validation of an ultra-wideband RFID geolocation system to monitor feeding and luxury patterns in feedlot cattle. *In Progress for Submission. J. Anim. Sci.*

Hoffmann C. A., J.O Sarturi, D.C. Weindorf, D.D Henry, H. A. Ramirez- Ramirez, S Jackson, M. A. Ballou, M.S. Douglas and L. Bouyi, E.F. Dias. 2020. The use of portable X-Ray fluorescence spectrometry to measure apparent total tract digestibility in beef cattle and sheep. *J. Anim. Sci.* 98 https://doi.org/10.1093/jas/skaa048

Kondratovich L. B., J. O. Sarturi, **C. A. Hoffmann**, M. A. Ballou, S. J. Trojan, and P. R. B. Campanili. 2019. Effects of fibrolytic enzyme on ruminal fermentation characteristics of beef steers fed high-and low-quality growing diets. *J. Anim. Sci.* 97: 3089- 3102

American Society of Animal Science Abstracts

C.A. Hoffmann, S.F. Kelley, K. Nicholson. 2024. Students' Perceptions of an Artificial Intelligence Photo Generation Tool in upper-level Animal Science curriculum. *Accepted on 5/8/24* for *Journal of Animal Science.*

C.A. Hoffmann, G. E. Carstens, S. Cummings, C. Skaggs. 2023. Undergraduate Student Perceptions of an Experiential Learning Activity in a Livestock Feed Formulation Animal Science Course. *Journal of Animal Science*, Volume 101, Issue Supplement_3: Pages 411– 412, https://doi.org/10.1093/jas/skad281.488

K. G. Scaranto Silva, I. G. Favero, K. T. Nardi, L. B. Kondratovich, **C. A. Hoffmann**, J. K. Hinds, N. Hall, D. D. Henry, J. O. Sarturi. 2020. PSVI-4 Effects of exogenous fibrolytic enzymes on beef cattle fed growing diets: Ruminal microbiome, *Journal of Animal Science*, Volume 98, Issue Supplement_4, Pages 425–426.

K. T. Nardi, K. G. Scaranto Silva, I. G. Favero, J. K. Hinds, **C. A. Hoffmann**, S. M. Soto, N. Hall, D. D. Henry, J. O. Sarturi. 2020. PSXII-3 Rumen microbiome from beef steers undergoing grain adaptation with steam-flaked corn varying in bulk density, *Journal of Animal Science*, Volume 98, Issue Supplement_4, Pages 446–447.

M.D. Sandes, R. Souza, G. Menezes, R. Souza, **C. A. Hoffmann**, P. Fonsenca, D. Jayme. 2019. Late-Breaking: Effect of initial body weight variation on growth performance of finishing Nellore cattle, *Journal of Animal Science*, Volume 97, Issue Supplement_3, Pages 322–323.

C. A. Hoffmann, J.O Sarturi, M.S. Douglas, L. Bouyi, E.F. Dias. 2019. A novel X-ray fluorescence technique to determine marker concentrations for estimating total tract apparent nutrient digestibility for beef cattle. *J. Anim. Sci.*

C. A. Hoffmann, J.O. Sarturi, D.D Henry. 2019. Manipulation of steam-flaked corn bulk density during grain adaptation phase of beef steers: ruminal fermentation characteristics and feeding behavior *J. Anim. Sci.*

J. D. Sugg, J. O. Sarturi, C. P. West, **C. A. Hoffmann**, and L. B. Kondratovich. 2019. Warm-season annual or perennial hay supplemented or not with distillers grains: ruminal fermentation characteristics, digestion, and feeding behavior. *J. Anim. Sci.*

E. F. F. Dias, J. O. Sarturi, D. D. Henry, D. D. Millen, **C. A. Hoffmann**, T. Opheim, M. D. F. Sandes, L.Bouyi, J. Hinds, S. Mejias, A. Osorio, N. Espinoza, J. Milopoulos, H. J. Manahan, P. M. Urso, M. Miller, and M. Brashears. 2019. Feeding behavior of feedlot steers fed combinations of feed additives *J. Anim. Sci.*

C. A. Hoffmann, J Sarturi, B Reis, M Miller, M Brashears, D Millen, J Milopoulos, T Opheim. December 2018. PSVII-9 Ruminal papillae morphology and volatile fatty acid profile of beef feedlot steers fed L. salivarius L28 in replacement for tylosin., *J. Anim. Sci.*, Volume 96, Issue suppl_3, Page 60.

Other American Conference Abstracts & Proceedings

C.A. Hoffmann, G.E. Carstens, S.R. Cummings. 2023. Students' Perceptions of an Experiential Learning Activity in a Livestock Feed Formulation Animal Science Course. North American Colleges and Teachers of Agriculture Conference.

C.A. Hoffmann, G.E. Carstens, S.R. Cummings. 2023. Students' Perceptions of an Experiential Learning Activity in a Livestock Feed Formulation Animal Science Course. Texas and Southwestern Cattle Raisers Association Conference.

C. A. Hoffmann, J.O. Sarturi, D.D Henry, L.B. Kondratovich. 2019. Manipulation of steam-flaked corn bulk density during grain adaptation phase of beef steers: ruminal fermentation characteristics and feeding behavior. Plains Nutrition Council Spring Conference- San Antonio, TX

M.S. Douglas, J.O Sarturi, **C. A. Hoffmann**, L. Bouyi, E.F. Dias. 2019. A novel X-ray fluorescence technique to determine marker concentrations for estimating total tract apparent nutrient digestibility for beef cattle. TTU Undergraduate Research Conference.

L. Bouyi, J.O. Sarturi, **C.A. Hoffmann**, M.S. Douglas. 2019. A novel X-ray fluorescence technique to determine marker concentrations for estimating total tract apparent nutrient digestibility for sheep. TTU Undergraduate Research Conference.

C. A. Hoffmann, J. O. Sarturi, B. Q. Reis, M. F. Miller, M. M. Brashears, D. D. Millen, J. T. Milopoulos, and T. L. Opheim. 2018. Ruminal papillae morphology and volatile fatty acid profile of beef feedlot steers fed combinations of feed additives. Plains Nutrition Council Spring Conference – San Antonio, TX

C. A. Hoffmann, J. O. Sarturi, B. Q. Reis, M. F. Miller, M. M. Brashears, D. D. Millen, J. T. Milopoulos, and T. L. Opheim. 2018. Ruminal papillae morphology and volatile fatty acid profile of beef feedlot steers fed combinations of feed additives. TTU Graduate Research Conference