

CURRICULUM VITAE

NAME

Archibeque, Shawn

ADDRESS

Animal Sciences
College of Agricultural Sciences

Animal Sciences

PHONE

(970) 491-6649

EDUCATION

2003 Ph D, Texas A&M

2000 MS, North Carolina State University

1998 BS, Colorado State University

1998 BS, Colorado State University

ACADEMIC POSITIONS

August 2000 - August 2003 Graduate Research Associate, Texas A&M University.

July 1998 - July 2000 Graduate Research Associate, North Carolina State University.

OTHER POSITIONS

July 2012 - Present Associate Professor, Colorado State University.

2003 - 2012 Professional Animal Scientist, American Registry of Animal Scientists.

August 2006 - August 2012 Assistant Professor, Colorado State University.

2003 - 2006 Post Doc, USDA ARS US Meat Animal Research Center.

September 2003 - July 2006 Postdoctoral Research Associate, USDA-ARS U.S. Meat Animal Research Center.

PUBLISHED WORKS

Refereed Journal Articles

Field, M. E., Anthony, R. V., Engle, T. E., Archibeque, S. L., Keisler, D. H., Han, H. (2015). Duration of maternal undernutrition differentially alters fetal growth and hormone concentrations. *Domestic animal endocrinology*, 51, 1-7.

Wagner, J. J., Archibeque, S. L., Feuz, D. M. (2014). The Modern Feedlot for Finishing Cattle. *Annual review of animal biosciences*, 2, 535-554.

- (2012). Quantifying the effect of monensin dose on the rumen volatile fatty acid profile in high-grain-fed beef cattle. *J Anim Sci*, 90, 2717-2726.
- (2011). Community structure of cattle fecal bacteria from different animal feeding operations. *Appl Environ Micro*, 77, 2992-3001.
- (2011). Effect of feedbunk management on feedlot steer intake. *Prof Anim Sci*, 27, 395-401.
- (2010). Effects of sex and short-term magnesium supplementation on stress responses and longissimus muscle quality characteristics of crossbred cattle. *J Anim Sci*, 88, 349-360.
- (2010). Naturally colonized beef cattle populations fed combinations of yeast culture and an ionophore in finishing diets containing dried distiller's grains with solubles had similar fecal shedding of E coli O157. *J Food Protection*.
- (2009). Characterization and Identification of Hepatic mRNA Related to Copper Metabolism and Homeostasis in Cattle. *Biol Trace Elem Res*, 129, 130-136.
- (2008). Feeding distillers grains supplements to improve amino acid nutriture of lambs consuming moderate-quality forages. *J Anim Sci*, 86, 691-701.
- (2008). Model for estimating enteric methane emissions from United States dairy and feedlot cattle. *J Anim Sci*, 86, 2738-2748.
- (2007). Net portal and hepatic flux of nutrients in growing wethers fed high-concentrate diets with oscillating protein concentrations. *J Anim Sci*, 85, 997-1005.
- (2007). The influence of oscillating dietary protein concentrations on finishing cattle: Feedlot performance and odorous compound production. *J Anim Sci*, 85, 1487-1495.
- (2007). The influence of oscillating dietary protein concentrations on finishing cattle: Nutrient retention and ammonia emissions. *J Anim Sci*, 85, 1496-1503.
- (2007). Urea metabolism in beef steers grazing Bermudagrass, Caucasian bluestem, or gamagrass pastures varying in plant morphology, protein content, and protein composition. *J Anim Sci*, 85, 1997-2004.
- (2006). Effects of feeding steam-rolled corn in lieu of dry-rolled corn on the odor of finishing beef steer manure. *J Anim Sci*, 84, 154-155.
- (2006). Feeding high-moisture corn instead of dry-rolled corn reduces odorous compound production in manure of finishing beef cattle without decreasing performance. *J Anim Sci*, 84, 1767-1777.
- (2006). Influence of genotype and diet on steer performance, manure odor, and carriage of pathogenic and other fecal bacteria III Odorous compound production. *J Anim Sci*, 84, 2533-2545.
- (2006). Influence of genotype and diet on steer performance, manure odor, and carriage of pathogenic and other fecal bacteria, Pathogenic and other fecal bacteria. *J Anim Sci*, 84, 2523-2532.
- (2006). Net flux of A-amino N across splanchnic tissues of ewes during abomasal protein and glucose infusion. *J Anim Sci*, 84, 457-457.
- (2005). Total splanchnic flux of nutrients in wethers fed oscillating crude protein diets. *J Anim Sci*, 83, 396-396.
- (2005). Total splanchnic flux of nutrients in wethers fed oscillating crude protein diets. *J Dairy Sci*, 88, 396-396.

- (2004). Oscillating protein concentrations of finishing beef cattle diets improves nitrogen retention by improving nitrogen digestibility. *J Dairy Sci*, 87, 116-116.
- (2004). Oscillating protein concentrations of finishing beef cattle diets improves nitrogen retention by improving nitrogen digestibility. *J Anim Sci*, 82, 116-116.

Non-Refereed Journal Articles

- Warner, C. M., Hahm, S. W., Archibeque, S. L., Wagner, J. J., Engle, T. E., Roman-Muniz, I. N., Woerner, D. R., Sponsler, M., Han, H. (2015). A comparison of supplemental calcium soap of palm fatty acids versus tallow in a corn-based finishing diet for feedlot steers. *Journal of animal science and technology*, 57, 25.
- Swyers, K. L., Wagner, J. J., Dorton, K. L., Archibeque, S. L. (2014). Evaluation of *Saccharomyces cerevisiae* fermentation product as an alternative to monensin on growth performance, cost of gain, and carcass characteristics of heavy-weight yearling beef steers. *Journal of animal science*, 92(6), 2538-45.
- (2012). An evaluation of 10-G brand direct-fed microbial for yearling steers fed finishing diets containing wet distillers grains. *Prof Anim Sci*, 28, 319-324.
- (2011). Naturally colonized beef cattle populations fed combinations of yeast culture and an ionophore in finishing diets containing dried distiller's grains with solubles had similar fecal shedding of *Escherichia coli* O157:H7. *J Food Protection*, 74, 912-918.
- Swyers, K. L., Carlson, B. A., Nightingale, K. K., Belk, K. E., Archibeque, S. L. (2011). Naturally colonized beef cattle populations fed combinations of yeast culture and an ionophore in finishing diets containing dried distiller's grains with solubles had similar fecal shedding of *Escherichia coli* O157:H7. *Journal of food protection*, 74(6), 912-8.
- (2010). Net flux of amino acids across the Portal-drained viscera and liver of the ewe during abomasal infusion of protein and glucose. *J Anim Sci*, 88, 1093-1107.
- Bass, P. D., Engle, T. E., Belk, K. E., Chapman, P. L., Archibeque, S. L., Smith, G. C., Tatum, J. D. (2010). Effects of sex and short-term magnesium supplementation on stress responses and longissimus muscle quality characteristics of crossbred cattle. *Journal of animal science*, 88(1), 349-60.

Non-Refereed Chapters in Books

- Hess, T. M., Archibeque, S. L. (in press). Clinical textbook for Veterinary Technicians. *Large Animal Nutrition* (9th ed.). Elsevier.

Abstract

- Warner, C. M., Archibeque, S. L., Engle, T. E., Wagner, J. J., Woerner, D. R., Han, H. (2015). *Supplementation of rumen-protected PUFA in corn-fed beef steers*. (Suppl. 2 ed., vol. 91, pp. 236). *Journal of Animal Science*.

Book Review

- (2012). *Beef Production and the demands of modern society*. Sustentabilidade da pecuária bovina brasileira Universidade Federal de Viçosa Viçosa, MG Brazil.
- (2012). *Large Animal Nutrition*. McCurnin's Clinical Textbook for Veterinary Technicians, 8th Edition Ed Bassert, J and Thomas.

Manuscript

Ellis, J. L., Dijkstra, J., Bannik, A., Kebreab, E., Archibeque, S. L., Benchaar, C., Beauchemin, K. A., Nkrumah, J. D., France, J. *Prediction of methane production in feedlot beef cattle within a mechanistic 3 digestion model.* Canadian Journal of Animal Science.

Warner, C., Archibeque, S. L., Wagner, J. J., Engle, T. E., Roman-Muniz, I. N., Woerner, D. R., Sponsler, M., Han, H. *Supplementation of Rumen-Protected PUFA in Corn-Fed Beef Steers†.* Journal of Animal Science and Technology.

Archibeque, S. L., Swyers, K. L., Wagner, J. J., Dorton, K. L. *Evaluation of Saccharomyces cerevisiae fermentation product as a natural alternative to an ionophore on growth performance, cost of gain, and carcass characteristics of heavy-weight yearling beef steers.* Journal of Animal Science.

Field, M., Anthony, R. V., Engle, T. E., Archibeque, S. L., Keisler, D., Han, H. *Duration of maternal undernutrition differentially alters fetal growth, umbilical blood gas, glucose and hormone concentrations..* Domestic Animal Endocrinology.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

July 2015, "Perspectives of a beef cattle nutritionist", ASAS ADSA Joint Annual Meeting, ASAS ADSA, peer-reviewed/refereed.

June 2015, "Everyone to the plate: Sustainable food production must be an inclusive solution", Lilian Fountain Smith Nutrition Conference, CSU FSHN Department, (Presenter) Archibeque, S. L., peer-reviewed/refereed.

July 8, 2013, "Supplementation of Rumen Protected PUFA in Corn Fed Beef Steers", American Society of Animal Sciences Joint Annual Meeting, American Society of Animal Science, (Presenter) Warner, C., Indianapolis, peer-reviewed/refereed.

2012, "2/28/2012. The Bovine Innovative Greenhouse Gas Solutions Pilot Project. Presentation Title " A review of the beef production system protocols in the United States" Presenter and Participant. Fort Collins, CO. Web Presentation".

2012, "3/7/2012 ICF Inc. and EPA planning meeting. Presentation Title" Enteric fermentation source category methods and data sources for USDA guidelines. Presenter and Participant Fort Collins, CO."

2012, "6/19/2013DFA Executive meeting. Presentation Title: NAQSAT 2.0 implications and opportunities for the DFA. Presenter and participant."

2012, "7/11/2013Front Range Community College. Veterinary technician training meeting. Participant. Fort Collins, CO."

2012, "7/15-18/2012 Joint Annual Meeting ADSA,

ASAS. Participant and Chair. Phoenix, AZ.", peer-reviewed/refereed.

2012, "8/17/2012. Ram Welcome. Presentation
Title

"Animal Nutrition at CSU." Presenter and
Participant. Fort Collins, CO."

2012, "8/8-9/2012 American Carbon Registry
Planning meeting. Presentation title

"Enteric emissions from
livestock." Presenter and
participant. Sacramento, CA."

2012, "9/20/2012 Colorado Nutrition Roundtable.
Participant and Chair. Nunn CO."

2012, "9/26/2013 Front Range Community
College. Veterinary technician training
meeting. Participant. Fort
Collins, CO."

2011, "12/13-14/2011. The Bovine Innovative
Greenhouse Gas Solutions Pilot Project.

Presentation Title "What do we
know, Exactly II? - Reducing age to
harvest and low residual feed intake-
Beef production system protocols in the
United States: Are the strategies
relevant?" Presenter and Participant.
Davis, CA."

2011, "5/12/2011. NAABB External Advisory Board
Peer Review Meeting. Presentation Title

"Lipid Extracted Algae as
a Livestock Feed." Presenter and
Participant. Broomfield, CO."

2011, "5/17/2011. Northern Colorado Dietetic
Association Meeting. Presentation Title

"Livestock Nutrition Research at
Colorado State University." Presenter
and Participant. Fort Collins, CO"

2011, "6/23/2011. Larimer County 4H Livestock
Day. Presentation Title "Livestock

Nutrition Research at Colorado State
University." Presenter and Participant.
Fort Collins, CO"

2011, "7/20-7/21/2011 Coalition on Agricultural
Greenhouse Gases. Presentation Title

"Mitigation of Livestock
Greenhouse Gas Emissions in the U.S.
Presenter and Participant Chicago, IL."

2011, "8/11/2011 Visiting Scientists from Paraguay. Presentation Title "Livestock Nutrition Research at Colorado State University." Presenter and Participant. Fort Collins, CO.", peer-reviewed/refereed.

2011, "8/19/2011. Ram Welcome. Presentation Title "Animal Nutrition at CSU." Presenter and Participant. Fort Collins, CO."

2011, "9/13/2011. CDPHE Air Quality Task Force Meeting. Presentation Title "The influence of growth promoting implants and ractopamine on N use in finishing beef cattle." Presenter and Participant. Fort Collins, CO."

2010, "2010 AFIA Spring Forum Carbon Footprint/ Cap & Trade . San Antonio, TX 3/9/2010. Presentation Title What is the potential impact on livestock production? . Presenter and Participant.", peer-reviewed/refereed.

2010, "2010 Larimer County Stockgrowers Meeting. Fort Collins, CO. 1/21/2010. Presentation Title Nutrition Research in the Animal Sciences Department at CSU . Presenter and Participant."

2010, "2010 Regional Capacity Building for Sustainable National Greenhouse Gas Inventory Management Systems in Southeast Asia. Kuala Lumpur, Malaysia. 10/28-29/2010. Presentation Title Greenhouse Gas Mitigation Options for Livestock Production. Presenter and Participant".

2010, "2010 Whole Foods Meat Group.. Fort Collins, CO 8/18/2010. Presentation Title Diet, Meat Quality and Implications for Human Health? . Presenter and Participant."

2010, "2010. Ram Welcome. Fort Collins, CO. 8/20/2010. Presentation Title Animal Nutrition at CSU. Presenter and Participant."

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

"Assisted in further development of the USDA Comet Farm online tool. Available at <http://cometfarm.nrel.colostate.edu/>." (Submitted: 2012, Application: 2012, Approved: 2012, Licensed: 2012).

"Updated NAQSAT. Available at naqsat.tamu.edu." (Submitted: 2012, Application: 2012, Approved: 2012, Licensed: 2012).

"National Air Quality Self Assessment Tool Available at naqsat.tamu.edu.." (Submitted: 2010, Application: 2010, Approved: 2010, Licensed: 2010).

(February 6, 2016 - February 9, 2016). Professional Meeting, "ASAS Southern Section meeting," ASAS, San Antonio, TX, United States. Approximate Number of Hours Spent Per Year: 8.

(July 12, 2015 - July 17, 2015). Professional Meeting, "ASAS ADSA JAM," ASAS ADSA, Orlando, FL, United States.

(May 26, 2015 - May 30, 2015). Professional Meeting, "National Conference on Race and Ethnicity," National Conference on Race and Ethnicity, Washington, DC, United States. Approximate Number of Hours Spent Per Year: 40.

(January 31, 2015 - February 3, 2015). Professional Meeting, "ASAS Southern Section meeting," ASAS, Atlanta, GA, United States. Approximate Number of Hours Spent Per Year: 8.

(October 5, 2014 - October 7, 2014). Conference Attendance, "ASAS 2014 Innovate," ASAS, Brainerd, Montana, United States. Approximate Number of Hours Spent Per Year: 16.

(July 13, 2014 - July 17, 2014). Conference Attendance, "ASAS 2013 Joint Annual Meeting," ASAS/ADSA, Kansas City, MO, United States. Approximate Number of Hours Spent Per Year: 24.

(September 19, 2013). Conference Attendance, "Colorado Nutrition Roundtable," ARPAS, Fort Collins, CO, United States. Approximate Number of Hours Spent Per Year: 6.

(July 14, 2013 - July 18, 2013). Conference Attendance, "ASAS 2013 Joint Annual Meeting," ASAS/ADSA, Indianapolis, Indiana, United States. Approximate Number of Hours Spent Per Year: 24.

(June 16, 2013 - June 18, 2013). Conference Attendance, "ASAS 2013 Western Section," ASAS, Billings, Montana, United States. Approximate Number of Hours Spent Per Year: 12.

(April 1, 2013 - April 2, 2013). Conference Attendance, "Waste to Worth," CLPE, Denver, CO, United States. Approximate Number of Hours Spent Per Year: 12.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Summer	ANEQ320 - Principles of Animal Nutrition	4	5
2016	Summer	ANEQ320 - Principles of Animal Nutrition - Lab	0	5
2016	Spring	ANEQ320 - Principles of Animal Nutrition	4	44
2016	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	11
2016	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	19
2016	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	14
2016	Spring	ANEQ384 - Supervised College Teaching	5	22
2016	Spring	ANEQ784 - Supervised College Teaching	18	31
2016	Spring	ANEQ699 - Thesis	18	9
2015	Fall	ANEQ305 - Functional Large Animal Anatomy/Physiology	3	95
2015	Fall	ANEQ725 - Rumen Metabolism	3	7
2015	Fall	ANEQ384 - Supervised College Teaching	5	27
2015	Fall	ANEQ784 - Supervised College Teaching	18	29
2015	Fall	ANEQ699 - Thesis	18	10

2015	Spring	ANEQ320 - Principles of Animal Nutrition	4	37
2015	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	10
2015	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	19
2015	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	8
2015	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	8
2015	Spring	ANEQ792E - Seminar-Nutrition	1	10
2015	Spring	ANEQ784 - Supervised College Teaching	18	28
2015	Spring	VM623 - Veterinary Nutrition and Metabolism	2	138
2014	Fall	ANEQ792E - Seminar-Nutrition	1	8
2014	Fall	ANEQ699 - Thesis	18	9
2014	Summer	ANEQ487A - Internship: Animal	6	36
2014	Summer	ANEQ320 - Principles of Animal Nutrition	4	2
2014	Summer	ANEQ320 - Principles of Animal Nutrition - Lab	0	2
2014	Spring	ANEQ320 - Principles of Animal Nutrition	4	65
2014	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	17
2014	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	17
2014	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	13
2014	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	18
2014	Spring	ANEQ792E - Seminar-Nutrition	1	9
2014	Spring	ANEQ784 - Supervised College Teaching	18	23
2014	Spring	ANEQ699 - Thesis	18	8
2014	Spring	VM623 - Veterinary Nutrition and Metabolism	2	136
2013	Fall	ANEQ487A - Internship: Animal	6	14
2013	Fall	ANEQ725 - Rumen Metabolism	3	13
2013	Fall	ANEQ792E - Seminar-Nutrition	1	10
2013	Fall	ANEQ699 - Thesis	18	4
2013	Summer	ANEQ487 - Internship	18	22
2013	Spring	ANEQ320 - Principles of Animal Nutrition	4	60
2013	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	19
2013	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	17
2013	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	11
2013	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	13
2013	Spring	ANEQ792E - Seminar-Nutrition	1	7
2013	Spring	ANEQ784 - Supervised College Teaching	18	22
2013	Spring	ANEQ699 - Thesis	18	9
2013	Spring	VM623 - Veterinary Nutrition and Metabolism	2	138
2012	Fall	ANEQ799 - Dissertation	18	8
2012	Fall	ANEQ699 - Thesis	18	5
2012	Summer	ANEQ487 - Internship	18	22
2012	Summer	ANEQ587 - Internship	9	1
2012	Spring	ANEQ495 - Independent Study	18	6
2012	Spring	ANEQ320 - Principles of Animal Nutrition	4	61
2012	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	11
2012	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	19
2012	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	13
2012	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	18
2012	Spring	ANEQ784 - Supervised College Teaching	18	18
2012	Spring	ANEQ699 - Thesis	18	10
2012	Spring	VM623 - Veterinary Nutrition and Metabolism	2	134
2011	Fall	ANEQ320 - Principles of Animal Nutrition	4	35
2011	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	10
2011	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	19
2011	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	6
2011	Fall	ANEQ699 - Thesis	18	13
2011	Spring	ANEQ799 - Dissertation	18	11

2011	Spring	ANEQ320 - Principles of Animal Nutrition	4	55
2011	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	17
2011	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	16
2011	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	7
2011	Spring	ANEQ320 - Principles of Animal Nutrition - Lab	0	15
2011	Spring	ANEQ784 - Supervised College Teaching	18	23
2011	Spring	VM623 - Veterinary Nutrition and Metabolism	2	141
2010	Fall	ANEQ799 - Dissertation	18	14
2010	Fall	ANEQ320 - Principles of Animal Nutrition	4	37
2010	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	11
2010	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	17
2010	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	0
2010	Fall	ANEQ320 - Principles of Animal Nutrition - Lab	0	9
2010	Fall	ANEQ384 - Supervised College Teaching	5	30
2010	Fall	ANEQ784 - Supervised College Teaching	18	27
2010	Fall	ANEQ699 - Thesis	18	14
2010	Spring	ANEQ799 - Dissertation	18	11
2010	Spring	ANEQ220 - Feeds and Feeding	2	29
2010	Spring	ANEQ320 - Principles of Animal Nutrition	3	57
2010	Spring	ANEQ784 - Supervised College Teaching	18	23
2010	Spring	ANEQ699 - Thesis	18	15
2009	Fall	ANEQ799 - Dissertation	18	10
2009	Fall	ANEQ320 - Principles of Animal Nutrition	3	50
2009	Fall	ANEQ384 - Supervised College Teaching	5	18
2009	Spring	ANEQ799 - Dissertation	18	13
2009	Spring	ANEQ220 - Feeds and Feeding	2	29
2009	Spring	ANEQ320 - Principles of Animal Nutrition	3	59
2009	Spring	ANEQ784 - Supervised College Teaching	18	20
2008	Fall	ANEQ799 - Dissertation	18	12
2008	Fall	ANEQ220 - Feeds and Feeding	2	28
2008	Fall	ANEQ320 - Principles of Animal Nutrition	3	43
2008	Fall	ANEQ384 - Supervised College Teaching	5	31
2008	Fall	ANEQ784 - Supervised College Teaching	18	24
2008	Summer	ANEQ487 - Internship	18	19
2008	Spring	ANEQ320 - Principles of Animal Nutrition	3	62
2007	Fall	AGRI192 - Orientation to Agricultural Systems	1	18
2007	Fall	ANEQ320 - Principles of Animal Nutrition	3	50

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Spring	VM623 - Veterinary Nutrition and Metabolism	1	Face to Face
2015	Fall	FSHN500 - Food Systems, Nutrition, and Food Security	1	Face to Face
2015	Fall	FSHN496B - Group Study in Dietetics and Nutrition-Sustainable Food Issues	1	Face to Face
2015	Spring	Rangeland Herbivore Ecology and Management	2	Face to Face
2015	Spring	PHIL666 - Science and Ethics	1	Face to Face
2015	Spring	ANEQ104 - Values, Culture, and Food Animal Agriculture	1	Face to Face
2014	Fall	FSHN500 - Food Systems, Nutrition, and Food Security	1	Face to Face
2014	Fall	FSHN496B - Group Study in Dietetics and Nutrition-Sustainable Food Issues	1	Face to Face
2014	Spring	Rangeland Herbivore Ecology and Management	2	Face to Face
2014	Spring	PHIL666 - Science and Ethics	1	Face to Face

2014	Spring	ANEQ104 - Values, Culture, and Food Animal Agriculture	1	Face to Face
2013	Fall	FSHN500 - Food Systems, Nutrition, and Food Security	1	Face to Face
2013	Fall	FSHN496B - Group Study in Dietetics and Nutrition-Sustainable Food Issues	1	Face to Face
2013	Spring	Rangeland Herbivore Ecology and Management	2	Face to Face
2013	Spring	PHIL666 - Science and Ethics	1	Face to Face
2013	Spring	ANEQ104 - Values, Culture, and Food Animal Agriculture	1	Face to Face

Evidence of Teaching Effectiveness (Annual Input)

Examples of Course Improvements

Spring 2013, ANEQ 320–Principles of Animal Nutrition

We further developed the "hands on" lab to allow for better coordination of the concepts taught in lab with those simultaneously being taught in lecture.

Other Evidence

Fall 2013, ANEQ 725–Rumen Metabolism

This is a course that had not been taught in several years and all pre-existing material was not available, so I developed the entire course.

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Presentation

GHG mitigation. Denver, CO. Number of times program was made: 1. Total number of participants: 100. Percent Responsible: 100%. 2012.

Visiting congress and staff

Climate change on the hill. Adult, Washington DC, DC. Number of times program was made: 1. Total number of participants: 20. Percent Responsible: 5%. 1st Quarter 2014.

COMMITTEES

Committee on Teaching and Learning, (2010 - 2015).

ITLT Task force on academic integrity, (January 2013 - May 2013).

(2012).

(2012).

(2012).

(2011).

(2011).

(2010).

(2010).

(2010).

AES Deputy Director Search Committee.

Committee on Teaching and Learning, (2009 - Present).

AES faculty liaison for Animal Sciences, (July 1, 2014 - June 30, 2017).

AES ARDEC Plant Sciences Manager, (December 2015 - March 2016).

AES ARDEC Science Manager, (April 2015 - June 2015).

(2012).

(2012).

(2012).

(2011).

(2011).

(2010).

(2010).

(2010).

Graduate Committee, (2014 - Present).

Beef Systems search committee, (January 2015 - March 2015).

(2012).

(2012).

(2012).

(2011).

(2011).

(2010).

(2010).

(2010).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

American Registry of Professional Animal Scientists. (2003 - 2041).

American Society of Animal Science. (1998 - 2041).

American Registry of Professional Animal Scientists. (2003 - 2010).

American Society for Nutritional Sciences. (2002 - 2010).

Society for Experimental Biology and Medicine. (2002 - 2010).

American Society of Animal Science. (1998 - 2010).

American Society for Nutritional Sciences. (2002 - 2004).

American Meat Science Association. (2003).

Gamma Sigma Delta, The Honor Society of Agriculture. (2000).

Golden Key Honor Society. (1998).

Coloradoan. (January 29, 2016).

AFIA, San Antonio, TX.

Algae.

Member, American Meat Science Association.

Member, American Registry of Professional Animal Scientists.

Member, American Registry of Professional Animal Scientists.

Member, American Society for Nutritional Sciences.

Member, American Society for Nutritional Sciences.

American Society of Animal Science, Miles City, MT.

Member, American Society of Animal Science.

Member, American Society of Animal Science.

Animal.

Animal.

ARPAS, Fort Collins, CO.

ARPAS Colorado Nutrition Roundtable.

British Journal of Nutrition.

Member, Clanton Scholarship Review Committee.

Member, College of Ag. Dean's Faculty Advisory Committee.

Colorado Nutrition Roundtable.

Member, Curriculum Committee.

Member, Faculty Council Committee on Teaching and Learning.

FASS, Denver, CO.

FASS, New Orleans, LA.

FASS, Phoenix, AZ.

Foodborne Pathogens and Disease.

Foodborne Pathogens and Disease.

Member, Gamma Sigma Delta, The Honor Society of Agriculture.

Member, Golden Key Honor Society.

Member, Institute for Livestock and the Environment.

Member, Institute for Livestock and the Environment.

Journal of Animal Science.

Journal of Animal Science.

Journal of Animal Science.

Member, Journal of Animal Science.

Larimer County Stockgrowers, Fort Collins, CO.

Physiology and Behavior.

Member, Society for Experimental Biology and Medicine.

The Bovine Innovative Greenhouse Gas Solutions Meeting, Davis, CA.

The Bovine Innovative Greenhouse Gas Solutions Pilot Project, Davis, CA.

Member, TILT Task Force on academic integrity.

United Nations, Kuala Lumpur, CO.

Reviewer, Ad Hoc Reviewer, University of Wyoming AES Competitive Grants Program.

USDA NRCS, Boise, ID.

Member, USDA NRCS CIG program.

Whole Foods, Fort Collins, CO.

Algae. (2012 - Present).

Animal. (2012 - Present).

FASS, Phoenix, AZ. (2012 - Present).

Journal of Animal Science. (2012 - Present).

The Bovine Innovative Greenhouse Gas Solutions Meeting, Davis, CA. (2012 - Present).

USDA NRCS, Boise, ID. (2012 - Present).

American Society of Animal Science, Miles City, MT. (2011 - Present).

ARPAS, Fort Collins, CO. (2011 - Present).

FASS, New Orleans, LA. (2011 - Present).

Foodborne Pathogens and Disease. (2011 - Present).

Journal of Animal Science. (2011 - Present).

The Bovine Innovative Greenhouse Gas Solutions Pilot Project, Davis, CA. (2011 - Present).

Reviewer, Ad Hoc Reviewer, University of Wyoming AES Competitive Grants Program. (2011 - Present).

Member, USDA NRCS CIG program. (2011 - Present).

AFIA, San Antonio, TX. (2010 - Present).

Animal. (2010 - Present).

British Journal of Nutrition. (2010 - Present).

FASS, Denver, CO. (2010 - Present).

Foodborne Pathogens and Disease. (2010 - Present).

Member, Institute for Livestock and the Environment. (2010 - Present).

Journal of Animal Science. (2010 - Present).

Larimer County Stockgrowers, Fort Collins, CO. (2010 - Present).

Physiology and Behavior. (2010 - Present).

United Nations, Kuala Lumpur, CO. (2010 - Present).

Whole Foods, Fort Collins, CO. (2010 - Present).

Member, American Registry of Professional Animal Scientists. (2003 - 2041).

Member, American Society of Animal Science. (1998 - 2041).

Member, TILT Task Force on academic integrity. (2013 - 2014).

Colorado Nutrition Roundtable. (2012 - 2014).

Member, Journal of Animal Science. (2011 - 2013).

ARPAS Colorado Nutrition Roundtable. (2010 - 2012).

Member, Clanton Scholarship Review Committee. (2010 - 2012).

Member, College of Ag. Dean's Faculty Advisory Committee. (2010 - 2012).

Member, Curriculum Committee. (2010 - 2012).

Member, Faculty Council Committee on Teaching and Learning. (2010 - 2012).

Member, Institute for Livestock and the Environment. (2008 - 2012).

Member, American Registry of Professional Animal Scientists. (2003 - 2010).

Member, American Society for Nutritional Sciences. (2002 - 2010).

Member, Society for Experimental Biology and Medicine. (2002 - 2010).

Member, American Society of Animal Science. (1998 - 2010).

Member, American Society for Nutritional Sciences. (2002 - 2004).

Member, American Meat Science Association. (2003).

Member, Gamma Sigma Delta, The Honor Society of Agriculture. (2000).

Member, Golden Key Honor Society. (1998).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

For Profit Organization, Omega Beef, Aspen, CO, United States. (January 1, 2014 - December 31, 2014).

Academic, Bovine Innovative Greenhouse Gas Solutions, Fort Collins, CO, United States. (2013 - 2014).

Academic, ICF Inc., United States. (2013 - 2014).

For Profit Organization, Omega Beef, Aspen, CO, United States. (January 1, 2013 - December 31, 2013).

Bovine Innovative Greenhouse Gas Solutions. (2012 - 2013).

ICF Inc. (2012 - 2013).

Bovine Innovative Greenhouse Gas Solutions. (2011).

ICF Inc. (2011).

ICF Inc. (2010).

Winrock International. (2010).

Board of Directors of a Company, ASAS Board of directors. (2013 - Present).

Board of Directors of a Company, ASAS, Champagn, Illinois. (July 2013 - July 2016).

Ag Adventure. (2012 - Present).

Ag Adventure. (2011 - Present).

Laurel Elementary School. (2011 - Present).

Laurel Elementary School. (2010 - Present).
