

Blake K. Wilson

Curriculum Vitae

Contact Information:

Oklahoma State University Department of Animal Science
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Brief Background and Personal Information:

I grew up near Okemah, Oklahoma on my family's small diversified farm where we raised commercial cattle, harvested pecans, and maintained native grass meadows for hay production. My family has been involved in production agriculture for multiple generations, and I became heavily involved with the daily operations of the farm from an early age. I received my first cow when I was two, and I slowly began building a cowherd by retaining heifer calves and exchanging steer calves with my father for additional heifers. When I became of age to actively participate in 4-H, I wanted to exhibit livestock like most every other kid growing up in a small rural town. I began to exhibit sheep at nine years of age and was quickly drawn to the Southdown breed. After locating a local breeder, I began raising and exhibiting my own registered Southdowns and eventually built up a breeding flock of over 30 registered ewes. As a 4-H and FFA member, I exhibited my flock across Oklahoma as well as at regional and national Southdown shows. As a result of the success I achieved with my cattle and sheep operations, I was a finalist for the Oklahoma Northeast District Star Farmer Award as a senior in FFA. After graduation, I dispersed my cattle and sheep operations to assist in financing my undergraduate education.

I held positions in various aspects of the agriculture industry throughout my early career. In high school, my brother and I operated a custom hay hauling business. In college, I served as the assistant manager for Hillier Angus Ranch and subsequently worked for Ditch Witch assembling agricultural equipment prior to being employed by Oklahoma State University. While obtaining my BS, I served as a research assistant at the Poultry Center and as a student employee at the Sheep Center. I also represented the Department at the Animal Science Quadrathlon, and was involved in multiple organizations within the College of Agriculture and Natural Resources including serving as an officer in the Alpha Zeta Honorary Fraternity and being a Representative to the Ag Student Association. I met my wife, Amanda, when we were both undergraduate students, and we were married prior to the initiation of my PhD program. We currently reside on a small farm near Coyle, OK.

Education:

Doctor of Philosophy, Animal Science: July 2014

Department of Animal Science, Oklahoma State University, Stillwater, OK

Advisor: Clint R. Krehbiel (clint.krehbiel@okstate.edu)

Dissertation title: *Ancillary therapy use and trace mineral supplementation in beef cattle: Impacts on clinical health, immune response variables, animal performance, and carcass traits*

Master of Science, Animal Science: May 2010

Department of Animal Science, Oklahoma State University, Stillwater, OK

Advisor: Clint R. Krehbiel (clint.krehbiel@okstate.edu)

Thesis Title: *Feeding a direct-fed microbial to determine performance, carcass characteristics, and fecal shedding of Escherichia coli O157:H7 in feedlot heifers fed with or without wet distiller's grains plus solubles*

Bachelor of Science, Animal Science, Business Option Agricultural Economics and Agribusiness Minor: May 2008 Summa Cum Laude

Department of Animal Science, Oklahoma State University, Stillwater, OK

Advisor: Robert (Bob) Kropp (bob.kropp@okstate.edu)

Professional Experience and Employment:

Assistant Professor

Full time appointment, 75% teaching and 25% research: 2015 -present

Oklahoma State University, Department of Animal Science

- Teaching responsibilities
 - Instructor of Applied Animal Nutrition (ANSI 3653)
 - Spring and Fall Semesters
 - Four sections
 - Instructor of Peer-Led Team Learning in Animal Science (ANSI 3410)
 - Spring and Fall Semesters
 - One section
 - Co-instructor for Animal Management Techniques (ANSI 3703)
 - Spring and Fall Semesters
 - Two sections
 - Instructor of Introduction to the Animal Sciences (ANSI 1124)
 - Spring 2016
Three sections
- Research areas
 - Ruminant nutrition
 - Animal health

- Beef production and cattle management

Lecturer

Full time appointment, 100% teaching: 2014-2015

Oklahoma State University, Department of Animal Science

- Teaching responsibilities
 - Instructor of Applied Animal Nutrition (ANSI 3653)
 - Fall 2014
 - Four sections
 - Co-instructor for Animal Management Techniques (ANSI 3703)
 - Fall 2014
 - Two sections

Graduate Research Coordinator

Willard Sparks Beef Research Center (WSBRC), 3/4 time appointment: 2010-2014

Oklahoma State University, Department of Animal Science

- Supervision, scheduling, and record keeping in regard to all research conducted at the 980 head CAFO licensed facility
- Supervised the successful execution of 74 research trials
- Conducted research on excess of 9000 head of cattle
- Office manager for the WSBRC
- Maintained commodity and pharmaceutical inventories
- Determined commodity and pharmaceutical projections
- Coordinated the procurement of commodities and supplies through vendors
- Prepared break-evens, monthly billing statements, and cattle closeouts
- Served as a liaison between faculty in multiple departments and institutions, graduate students, staff, and student employees
- Assisted graduate students in the formulation of rations and the development of research protocols
- Coordinated and conducted tours of the facility for students, alumni, and producers
- Assisted with extension and classroom demonstrations at the facility
- Conducted daily activities at the facility including but not limited to calling feed, processing cattle, evaluating and treating cattle
- Provided daily supervision and management for up to 15 undergraduate and graduate employees

Personal research explored:

- Effects of castration methods on health and performance of “high-risk” commingled calves purchased from livestock markets in Oklahoma, Arkansas, and Missouri

- Factors influencing the subsequent receiving health and performance of “high-risk” steer and bull calves purchased at regional livestock markets in 2010 and 2011
- Evaluation of multiple ancillary therapies utilized in combination with an antimicrobial in newly received high-risk calves treated for bovine respiratory disease
- Impact of previous bovine respiratory disease incidence and ancillary therapy use on steer finishing performance, efficiency, carcass characteristics, and lung scores
- Effects of chelated copper, manganese, and zinc supplementation on clinical signs, immune response variables, and mineral status of calves following natural exposure to bovine viral diarrhea virus type 1b and subsequent *Mannheimia haemolytica* infection

Other responsibilities:

- Assisted with the Animal Science Academic Quadrathlon
- Assisted with the National Meat Animal Evaluation Contest
- Secretary of the Animal Science Graduate Student Association (ASGSA)
 - Performed all customary secretarial duties
 - Organized and managed two successful fundraisers
 - Assisted with the planning of and hosting of the annual Totusek Seminar and Dinner
- President of the Animal Science Graduate Student Association (ASGSA)
 - Performed all official presidential duties
 - Organized social and professional functions
 - Coordinated the planning of and hosting of the annual Totusek Lectureship
- Teaching assistant
 - Principles of Animal Nutrition (Dr. Bob Teeter)
 - Animal Management Techniques (Dr. Dan Stein)
 - Principles of Animal Nutrition (Dr. Scott Carter)
 - Applied Animal Nutrition (Dr. Bob Kropp; multiple semesters)

Graduate Research Assistant, 1/2 time appointment: 2008-2010

Oklahoma State University, Department of Animal Science

Personal research explored:

- Feeding *Lactobacillus acidophilus* combined with *Propionibacterium freudenreichii* to determine performance, carcass characteristics, and fecal shedding of *Escherichia coli* 0157:H7 in feedlot heifers fed with or without wet distiller’s grains plus solubles
- Assisted numerous graduate students with diverse research projects including many that have been recently accepted in professional journals or are pending publication, and several that have been presented at Joint Annual Meetings of ADSA, PSA, AMPA, CSAS, and ASAS

Other responsibilities:

- Animal Science Graduate Student Association (ASGSA)
 - Organized graduate student intramural sports teams
 - Assisted with all ASGSA activities
- Teaching assistant
 - Applied Animal Nutrition (Dr. Bob Kropp)
 - Agricultural Animals of the World (Dr. Steve Damron)

Undergraduate Student Employee and Research Assistant: 2004-2008

Oklahoma State University, Department of Animal Science

- Undergraduate research assistant, Poultry Unit
 - Assisted MS and PhD students with multiple research projects
 - Served as the research coordinator for two research trials
 - Responsible for all improvements and maintenance at the facility
- Undergraduate worker, Sheep Unit
 - Conducted day to day operations at the facility including but not limited to feeding, processing lambs, vaccinating, and treating
 - Lambd out the University flock

Other responsibilities:

- Teaching assistant
 - Applied Animal Nutrition (Dr. Bob Kropp)
 - Animal Breeding (Dr. Raluca Mateescu; multiple semesters)
 - Animal Reproduction (Dr. Leon Spicer)

Teaching Activities:

Brief Teaching Philosophy:

In the most basic sense, I define teaching as the process through which students are encouraged to become internally motivated to acquire knowledge about a given topic. It may seem odd coming from someone with an animal science background, but I consider teaching to be equal parts science and art. Teaching is much more than simply providing knowledge about the subject to students to increase their understanding of the subject matter. My overall concept of effective teaching is motivating students in such a way that causes them to aspire to be effective lifelong learners. I hope to accomplish this by communicating the importance of learning as a process and encouraging students to continue their learning independently above and beyond what is taught or required in my classroom. Besides the challenge of motivating students to learn continuously, I must be able to effectively communicate the importance of my discipline, establish a desire to learn the subject matter, build rapport with students, and institute expectations to challenge students.

When my students are highly motivated, interested in the material, comfortable with me as an educator, and clearly understand both what is expected of them and what is being

taught, I feel I can be an extremely effective teacher. It is my job as an educator to accomplish these things and I feel that I can by relating to my students and by being extremely competent, enthusiastic, and a highly effective motivator. My ultimate goal as an educator is to motivate my students to not only learn and be successful in my class, but to motivate them in a way that causes them to aspire to be effective lifelong learners.

Table 1. Courses taught and credit hours generated by semester

Course Designation	Course Title	Semester Taught	Number of Students	Total Credits
ANSI 3653	Applied Animal Nutrition	Fall 2014	107	321
ANSI 3653	Applied Animal Nutrition	Spring 2015	100	300
ANSI 3653	Applied Animal Nutrition	Fall 2015	109	327
ANSI 3653	Applied Animal Nutrition	Spring 2016	110	330
ANSI 3703 ¹	Animal Management Techniques	Fall 2014	55	165
ANSI 3703 ¹	Animal Management Techniques	Spring 2015	34	102
ANSI 3703 ¹	Animal Management Techniques	Fall 2015	38	114
ANSI 3703 ¹	Animal Management Techniques	Spring 2016	34	102
ANSI 3410	Peer-Led Team Learning in Animal Science	Spring 2015	3	6
ANSI 3410	Peer-Led Team Learning in Animal Science	Fall 2015	6	13
ANSI 3410	Peer-Led Team Learning in Animal Science	Spring 2016	10	20
ANSI 1124	Introduction to the Animal Sciences	Spring 2016	108	432

¹Co-instructor

Courses Taught:

Oklahoma State University, Department of Animal Science

- Applied Animal Nutrition
 - Introduction to Digestion, Nutrients, and Feed Labeling
 - Feedstuffs
 - Beef Cattle Nutrition
 - Sheep Nutrition
 - Meat Goat Nutrition

- Dairy Cattle Nutrition
- Horse Nutrition
- Swine Nutrition
- Poultry Nutrition
- Dog and Cat Nutrition
- Special Topics and Current Issues

- Animal Management Techniques
 - Field of Vision and Flight Zones
 - Collecting Blood Samples for Metabolic and Mineral Profiles
 - Administering Biologicals and Pharmaceuticals
 - Swine Behavior and Handling
 - Swine Breeds and Crossbreeding Systems
 - Castration
 - Dehorning

- Introduction to the Animal Sciences
 - Domestication
 - Animal Science Disciplines
 - Animal Contribution to Man
 - AFOs and CAFOs
 - Animal Behavior
 - Food Safety
 - Commodity Grading
 - Stunning Practices
 - Ritual Slaughter
 - Nutrition
 - Breeding and Genetics
 - Reproduction
 - Nutrition
 - Beef Cattle
 - Dairy Cattle
 - Sheep
 - Goats
 - Swine
 - Poultry
 - Horses
 - Pets

Guest Lectures:

Oklahoma State University, Department of Animal Science

- Principles of Nutrition ANSI 3543
 - Physiology of the Gastrointestinal System
 - Canine Digestion

- Digestion in the Ruminant
- Digestion in the Horse
- Zootechnology VMED 7152
 - United States Beef Industry Overview: Breeds, Production, and Management
- Freshmen Orientation ANSI 1111
 - Graduate School and Professional Career Options

Invited Lectures:

Western Oklahoma State College, Department of Arts and Sciences

- Agriculture Orientation
 - Graduate School Overview and Career Options with Graduate Degrees in Animal Science
- Fundamentals of Food Science
 - Implants and Beta Adrenergic Agonists: Modes of Action and Impacts on Meat Yield and Quality Grades

Laboratories Conducted:

Oklahoma State University, Department of Animal Science

- Animal Management Techniques
 - Conducted all labs for the course
- Applied Animal Nutrition
 - Conducted all labs for the course
- Form and Function of Livestock and Poultry
 - Anatomy of the Reticulum, Rumen, Omasum, Abomasum, Monogastric Stomach, Intestines, and Kidneys
- Introduction to the Animal Sciences
 - Conducted all labs for the course

Table 2. Instructor teaching evaluation summaries reported as percentage of students marking A, B, C, D, or E categories for seven questions on the student evaluation forms for courses taught at Oklahoma State University¹

Course	Semester	Instructor Rank	A	B	C	D	E
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ANSI 3653	Fall 2014	3.36	50.4	36.2	12.0	1.2	0.2
ANSI 3653	Spring 2015	3.43	54.4	35.5	8.8	1.1	0.2
ANSI 3653	Fall 2015	4.37	55.7	27.9	14.3	1.7	0.4
ANSI 3653	Spring 2016	4.01	37.5	35.5	19.7	5.0	2.3
ANSI 3703	Fall 2015	4.63	69.4	24.5	6.1	0.0	0.0
ANSI 3703	Spring 2016	4.89	88.9	11.1	0.0	0.0	0.0
ANSI 1124	Spring 2016	4.22	48.6	29.2	18.9	2.0	1.2

¹A = very high, B = high, C = average, D = low, and E = very low for evaluating the instructor on preparation and organization, effort devoted to teaching, presentation of material, knowledge of subject matter, ability to explain subject matter, positive attitude, and overall instructor appraisal.

Table 3. Course teaching evaluation summaries reported as percentage of students marking A, B, C, D, or E categories for seven questions on the student evaluation forms for courses taught at Oklahoma State University¹

Course	Semester	Course Rank	A	B	C	D	E
ANSI 3653	Fall 2014	3.33	37.1	50.2	5.8	0.3	6.6
ANSI 3653	Spring 2015	3.40	42.1	46.3	2.7	1.1	7.8
ANSI 3653	Fall 2015	3.34	47.5	40.9	9.0	2.1	0.4
ANSI 3653	Spring 2016	2.99	25.1	55.1	13.0	6.8	0.0
ANSI 3703	Fall 2015	3.86	85.7	14.3	0.0	0.0	0.0
ANSI 3703	Spring 2016	3.92	92.1	7.9	0.0	0.0	0.0
ANSI 1124	Spring 2016	3.25	41.8	44.0	11.2	3.0	0.0

¹A = definitely yes, B = yes, C = no, D = definitely no, and E = not applicable for evaluating the course for the amount learned, appropriate workload, usefulness of assignments, testing and evaluation procedures, student involvement, course worthwhileness, and overall course appraisal.

Advising and Mentoring Activities:

Table 1. Graduate student committee membership and service

Student	MS Program Dates	PhD Program Dates
Jacob Reed	-	Spring 2014 - Spring 2017
Steven Quanz	Fall 2014 - Fall 2016	-
Ishtar Silva Lara ^{2,3}	Fall 2014 - Summer 2015	-
Jason White	Spring 2015 - Fall 2016	-
Mariah Woolsoncroft ¹	Summer 2015 - Summer 2017	-
Taylor Langford ¹	Summer 2015 - Summer 2017	-
Ali Hussein ¹	-	Fall 2015 - Summer 2018
Garret Williams	Fall 2015 - Spring 2017	-
Caleb Lockard	Fall 2015 - Summer 2017	-
Lana Petrie ⁴	Fall 2015 - Summer 2017	-
Elizabeth DeSocio ¹	Summer 2016 - Summer 2018	-
Jace Lynch ^{1,4}	Fall 2016 - Summer 2018	-

¹Thesis or dissertation advisor

²International student receiving a dual degree from Oklahoma State and UPAEP in Mexico

³MS Degree with report option

⁴MS Degree with creative component option

Selected Thesis and Dissertation Titles:

Undergraduate Advising and Mentoring Activities:

- Mentored 2 undergraduates (Lynne Andrew and DeAndra Gilbert) from Langston University as part of a summer internship program 2016
- Mentored 3 students fulfilling requirements for honors contracts while taking ANSI 3653 2016
- Conducted floor programming for the CASNR Village Freshman in Transition (FIT) program as a Faculty Associate 2015-2016
- Mentored Undergraduate Research Scholar (Molly Meyer) 2015-2016
- Academic advisor for 24 undergraduate students 2015
- Mentored 4 students fulfilling requirements for honors contracts while taking ANSI 3653 2015

- Mentored 4 students fulfilling requirements for honors contracts while taking ANSI 3653 2014
- Mentored a Freshmen Research Scholar (Mary Temple-Lee) 2013
 - Provided instruction and guidance for conducting university sponsored undergraduate research project
 - Assisted with research presentation at the Freshman Research Scholars Colloquium

Formal Educational Training and Workshops:

2016 ITLE Teaching and Learning Conference
 2016 DASNR eGrants Training
 2016 Banner Instructor Training
 2016 Banner Advisor Training
 2016 CASNR New Faculty Training Series
 2015 CASNR New Faculty Training Series
 2015 Write Winning Grants Seminar
 2015 New Tenure Track Faculty Orientation
 2015 CASNR Advisors Workshop
 2014 GTA Workshop: Effective Strategies for Engaging Students in the Classroom
 2013 AGED 6120: Teaching Agriculture in Higher Education (3 credit hour course)

University, College, and Departmental Club/Committee Involvement:

- Oklahoma State FFA Veterinary Science Career Development Event (CDE)
 - Co-Superintendent 2016
- Department of Animal Science Banquet Committee
 - Member 2016 - Present
- Animal Science Leadership Alliance (ASLA) Interview and Selection Committee
 - Member 2016
- Animal Science Graduate Student Association (ASGSA)
 - Advisor 2016 - Present
- Department of Animal Science Teaching Committee
 - Member 2015 - Present
- Department of Animal Science Academic Quadrathlon
 - Committee Chair 2015 - Present
- CASNR Village Freshman in Transition (FIT) program
 - Faculty Associate 2015 - Present

Other University, College, and Departmental Activities:

2016 Animal Science Banquet

2016 Animal Science Gala Reunion
 2016 FIT Faculty Dinners
 2016 Charles and Linda Cline Equine Teaching Center Dedication Ceremony
 2016 OSU Research Week Whiteman Competition Judge
 2016 OSU Research Symposium Presentation Judge
 2016 Animal Science Faculty Retreat
 2015 FIT Faculty Dinners
 2015 OSU University Awards Convocation
 2015 Animal Science Quadrathlon
 2015 Ferguson Family Dairy Center Gift Announcement Ceremony
 2015 Superior Comes to Stillwater Sale
 2015 Animal Science Smokarama
 2015 ASGSA Back to School Picnic
 2015 Animal Science New Student Mixer
 2015 CASNR Advisor Appreciation Luncheon
 2015 Animal Science Banquet
 2015 Animal Science Gala Reunion
 2015 Charles and Linda Cline Equine Teaching Center Groundbreaking Ceremony
 2014 CASNR Representative for Phi Kappa Phi Initiation

Outreach and Extension Activities:

- Discussed vaccination programs for cow-calf operations with a Purina Animal Nutrition employee and made recommendations for producers 2016
- Spoke to a large group of students from Auburn University students about the research capabilities and current research taking place at WSBRC and provided a guided tour of the facility 2016
- Discussed ration formulation concerns and trace mineral supplementation in feedlot diets containing high levels of byproduct feeds with Carl Conrad of Custom Misers in Perry, OK 2016
- Spoke to a large group of students from Iowa State University about opportunities at Oklahoma State and graduate programs prior to the National Block and Bridle Convention 2015
- Discussed and outlined a winter feeding and supplementation strategies for a Mr. McReynolds, a Southeast Oklahoma cattle producer 2015
- Outlined feeding and management program for a Stillwater, OK resident with an senior horse 2015
- Southeast Kansas Extension Agents WSBRC Tour 2015
- Tour of the Animal Science Dairy and WSBRC for the Altus Public Schools and Western Oklahoma State College In-Service Math and Science Partnership 2015
- Invited speaker for Altus Public Schools and Western Oklahoma State College In-Service Math and Science Partnership 2015
- Assisted in the planning and organization of the grand opening celebration of the WSBRC Insentec facility 2011

- Invited speaker at the National Dexter Annual General Meeting held in conjunction with the National Dexter Show and Sale 2011
- Conducted Payne County Master Cattlemen's Feedlot Tour/Field Day 2010
- Conducted tours for the Oklahoma State University OKC Veterinarian Technician Program 2010
- Assisted with Oklahoma State Grandparent's University Tour/Field Day 2010

International Agriculture Experience:

- OSU Agricultural Study Abroad Tour of the United Kingdom and Ireland
- Oklahoma Agricultural Leadership Encounter Agricultural Tour of Argentina
- OSU Agricultural Study Abroad Tour of Czech Republic, Germany, and Poland

Professional Service Activities:

- Reviewed 1 manuscript for Journal of Animal Science 2015
- Edited 2 book chapters for Dr. W. Stephen Damron 2016
- Reviewed 1 manuscript for Small Ruminant Research 2016
- Reviewed 2 manuscripts for Journal of Animal Science 2015

Professional Organizations:

- American Society of Animal Science
- American Registry of Professional Animal Scientists
- Gamma Sigma Delta Honor Society
- Oklahoma State University Animal Science Alumni Association
- Plains Nutrition Council

Professional Development Activities:

- 2016 ASAS/ADSA/CSAS/WSASAS National Meeting, Salt Lake City, UT
- 2016 Grazing Livestock Nutrition Conference, Park City, UT
- 2016 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2016 ASAS Southern Section Academic Quadrathlon and Meeting
- 2015 ASAS/ADSA National Meeting, Orlando, FL
- 2015 DASNR Access Tour, North Central and Northeast, OK
- 2015 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2014 ASAS/ADSA/CSAS National Meeting, Kansas City, MO
- 2014 Oklahoma Center for Respiratory and Infectious Disease Annual Research Retreat, Stillwater, OK
- 2014 Plains Nutrition Council Annual Conference, San Antonio, TX

- 2014 ASAS Southern Section Meeting, Dallas, TX
- 2014 Research Internship with Novus International, St. Charles, MO
- 2013 ASAS/ADSA National Meeting, Indianapolis, IN
- 2013 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2013 Priefert Manufacturing Training Seminar, Mt Pleasant, TX
- 2012 Feedlot Nutritionist Boot Camp, Amarillo, TX
- 2012 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2011 Beef Quality Assurance Certification Training, Stillwater, OK
- 2011 ASAS/ADSA National Meeting, New Orleans, LA
- 2011 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2011 Good Clinical Practices Training, Stillwater, OK
- 2011 Stocker and Receiving Cattle Management Conference, Enid, OK
- 2010 ASAS/ADSA/CSAS/PSA/AMPA/WSASAS National Meeting, Denver, CO
- 2010 Oklahoma State University Beef Industry Conference, Stillwater, OK
- 2010 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2009 Plains Nutrition Council Annual Conference, San Antonio, TX
- 2009 Participated in Cargill Receiving Cattle School, Stillwater, OK
- 2009 Noble Foundation Stocker Cattle Seminar, Ardmore, OK
- 2009 Elanco Animal Nutrition Seminar, San Antonio, TX
- 2009 Discover Conference on Food Animal Agriculture: Direct Fed Microbials /Prebiotics for Animals: Science and Mechanisms of Action, Nashville, IN
- 2008 Oklahoma Agricultural Leadership Encounter, Stillwater, OK

Additional Activities, Honors, Awards, and Scholarships:

- 2014 Dr. Cletis Williams and William E. and Martha Jane Williams Outstanding Thesis Award in Animal Science from the College of Agricultural Sciences and Natural Resources
- 2013 Dr. Robert and Nell Totusek Graduate Fellowship
- 2012 Dr. N. Andy Cole Graduate Professional Development Scholarship
- 2011 International Study and Outreach Study Abroad Scholarship
CASNR Study Abroad Scholarship
- 2011 Dr. Donald R. Gill Animal Science Endowed Scholarship
- 2010 Eugene and Doris Miller Distinguished Graduate Fellowship
- 2010 Outstanding MS student in the Department of Animal Science
- 2008 Top Ten Graduating Senior in the College of Agricultural Sciences and Natural Resources
- 2008 Dean Fred LeCrone Senior Leadership Award Recipient (Top Five Graduating Senior in all of CASNR)
- 2008 Animal Science Outstanding Senior Leadership Award
- 2008 Animal Science Outstanding Senior Scholarship Award
- 2008 Oklahoma Agricultural Leadership Encounter
- 2008 CASNR Student Government Association Representative
- 2008 ASAS Academic Quadrathlon
- 2007 Alpha Zeta Honor Fraternity

2007 American Society of Collegiate Scholars
2007 Iota Kappa Honor Fraternity
2007 Phi Kappa Phi Honor Fraternity
2007 Golden Key Honor Society
2007 Alpha Zeta Outstanding Pledge Award
2005 CASNR FIT Award of Excellence
2005 American FFA Degree Recipient

Research Funding:

Pending Proposals:

Jaroni, D., C. Richards, R. Jadeja, C. Krehbiel, **B. Wilson**, G. Mourer, M. Brashears, K. Nightingale, T. Brashears, J. Sarturi, A. Echeverry, and J. Riordan. 2016. Evaluation of Direct-Fed-Microbials for the Mitigation of Antimicrobial Drug Resistance in Beef Cattle Production System. USDA-NIFA-AFRI-005802. \$1,199,995.

Wilson, B. K., C. R. Krehbiel, and A. W. Confer. 2016. Evaluation of Bioplex[®] organic trace minerals on clinical signs, immune response variables, and mineral balance in calves following natural exposure to bovine viral diarrhea virus type 1 and subsequent *Mannheimia haemolytica* infection. Alltech. \$90,679.

Funded:

Meyer, M. M., and **B. K. Wilson**. 2016. Comparing white blood cell counts in cattle to predict bovine respiratory disease. Wentz Research Grant. Lew Wentz Foundation and Oklahoma State University. \$4,500.

Sexten, A. K., S. R. Duncan, A. J. Sexten, **B. K. Wilson**, and M. A. Woolsoncroft. 2015. The effects of cutting height and plant maturity on yield and nutritional value of brome forage. Research collaboration between Kansas State University and Oklahoma State University. \$43,002 (\$9,350 to Oklahoma State Department of Animal Science).

Wilson, B. K., C. R. Krehbiel, and D. L. Step. 2015. Evaluation of MULTIMIN[®] 90 injectable trace minerals on the performance, clinical BRD incidence, and mineral balance in calves in a commercial feedlot. MultiMin USA, Inc. \$49,996.

Goetsch, A. L., T. A. Gipson, R. Mateescu, S. Zeng, R. Puchala, **B. K. Wilson**, T. Sahl, and P. Oltenacu. 2013. Genomics of Resilience in Sheep to Climatic Stressors. USDA 1890 Institution Capacity Building. Prime USDA-NIFA-2013-38821-21389. \$600,000 (\$124,537 to Oklahoma State Department of Animal Science).

- Krehbiel, C. R., C. G. Hixon, B. C. Bernhard, **B. K. Wilson**, C. L. Maxwell, and D. L. Step. 2013. Effect of Bovamine Defender on performance of beef cattle during receiving and growing. Nutrition Physiology Company, Inc. \$52,323.
- Krehbiel, C. R., C. L. Maxwell, B. C. Bernhard, **B. K. Wilson**, M. S. Calvo-Lorenzo, D. L. Step, and C. J. Richards. 2013. Effects of altering beef production systems on animal performance and carcass characteristics. Merck Animal Health. \$112,221.
- Maxwell, C. L., **B. K. Wilson**, D. L. Step, D. L. VanOverbeke, M. S. Calvo-Lorenzo, E. Devuyst, C. J. Richards, and C. R. Krehbiel. 2012. Effects of altering beef production systems on animal performance, carcass characteristics, production economics, heat stress, and animal behavior. Merck Animal Health. \$56,016.
- Wilson, B. K.**, B. C. Bernhard, C. L. Maxwell, C. A. Gifford, C. R. Krehbiel, D. L. Step, R. W. Fulton, A. W. Confer, and C. J. Richards. 2012. Evaluation of Mintrex[®] Beef chelated trace minerals on clinical signs, immune response variables, and mineral balance in calves following natural exposure to bovine viral diarrhea virus type 1 and subsequent *Mannheimia haemolytica* infection. Novus International, Inc. \$39,946.
- Krehbiel, C. R., D. L. Step, C. L. Maxwell, and **B. K. Wilson**. 2011. Effects of Range Buster on health and performance of newly received shipping stressed beef calves. Texas Creek Farms. \$25,560.
- Maxwell, C. L., **B. K. Wilson**, and C. R. Krehbiel. 2011. The effects of Bovine BlueLite[®] Pellets (BBL) (National Branded Product Name)/Beef Hydro-Lac[®] (Regional Branded Product Name) on feedlot performance and carcass characteristics of beef steers during the last 60 days on feed. Tech-Mix. \$3,300.
- Krehbiel, C. R., D. L. Step, and **B. K. Wilson**. 2010. Evaluation of the comparative efficacy of ML-1,709,460 and tulathromycin for the treatment of undifferentiated bovine respiratory disease in high risk feedlot calves under field conditions. Merial Limited. \$98,559 (\$51,028 to Oklahoma State Department of Animal Science).
- Krehbiel, C. R., **B. K. Wilson**, D. B. Burken, and D. L. Step. 2010. Data analysis to further evaluate the efficacy of Intervet/Schering Plough Animal Health products. Intervet/Schering-Plough Animal Health. \$58,840.
- Krehbiel, C. R., D. B. Burken, **B. K. Wilson**, and D. L. Step. 2010. A comparison of clinical efficiency for Resflor Gold and Draxxin in high-risk, light weight cattle as treatment for undifferentiated fever-clinical bovine respiratory disease. Intervet/Schering-Plough Animal Health. \$23,506.

Not Funded:

Wilson, B. K., J. Reed, D. Secrist, and C. R. Krehbiel. 2016. Evaluation of MULTIMIN[®] 90 injectable trace minerals on the performance, clinical BRD incidence, and mineral balance of long-haul, “high-risk” calves in a commercial feedlot. MultiMin USA, Inc. \$36,485.

Jaroni, D., T. Barashears, C. Richards, M. Rolf, R. Jadeja, **B. Wilson**, S. Trojan, and C. Krehbiel. 2015. Mitigation of Antibiotic Resistance Using Direct-Fed-Antimicrobials in Beef Cattle Production System. USDA-NIFA-AFRI Proposal Number: 2015-07868.

Wilson, B. K., C. R. Krehbiel, C. A. Gifford and A. W. Confer. 2015. Evaluation of OmniGen-AF[®] on clinical signs, immune response variables, and blood metabolites in calves following natural exposure to bovine viral diarrhea virus type 1 and subsequent *Mannheimia haemolytica* infection. Phibro Animal Health. \$107,910.

Wilson, B. K., C. R. Krehbiel, D. L. Step, C. J. Richards, M. S. Calvo-Lorenzo. 2015. Evaluation of Original XPC[™] *Saccharomyces cerevisiae* yeast product on clinical signs, immune response variables, and performance of calves during the receiving period. Diamond V. \$139,399.

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