

Curriculum Vitae

Jared M. Mumm

Instructor and Judging Team Coordinator

Texas A&M University-Commerce

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Education

- **College of Southern Idaho**, Twin Falls Idaho
2012 A.S. in Agriculture
Major: Animal Science
- **Kansas State University**, Manhattan Kansas
2014 B.S. in Agriculture
Major: Animal Science & Industry
- **Iowa State University**, Ames Iowa
2017 M.S. in Animal Science
Dr. Ken Stalder, Major Professor
Thesis: *Dynamic space requirements for lame and non-lame sows determined by lying-standing sequence profile*
- **Kansas State University**, Manhattan Kansas
2021 Ph.D. Animal Science
Dr. Lindsey E. Hulbert, Major Professor
Thesis: *Production and welfare of sows and pigs in lactation*

Work Experience

- 2012-2015: Student worker Kansas State Swine Teaching and Research Unit
-170 Sow farrow to finish, managed Feedlogic and Gestal systems as well as herd health and various day to day tasks. Assisted with numerous nutrition and feeding trials.
- 2015: National Barrow Show Progeny Test Station Manager, Ames IA
-Managed 300 purebred wean to finish market hogs that competed in the Super Sire competition at the National Barrow Show and one employee.

- 2021- Present: Instructor and Judging Team Coordinator Texas A&M University Commerce, Commerce TX
-Teach a variety of animal science courses within the College of Agriculture and coach the livestock judging team.

Teaching/Coaching Experience

Instructor: ANS 1119 Introduction to Animal Science Lab

- This lab course involves general animal science knowledge about meat animal species, equine and companion animals. Hands on livestock introduction and experience for students is the goal.

Instructor: ANS 1319 Introduction to Animal Science

- This course covers introduction to meat animal species from a production animal setting in a classroom.

Instructor: ANS 2319 Livestock Preparation and Handling

- This course involves the training of future agriculture instructors in all aspects of animal and barn management that they will see when teaching high school ag.

Instructor: ANS 300/301 Pre-Junior/Junior Livestock Judging

- This course involves the technical knowledge needed and the selection and building of competitive livestock judging teams that will travel.

Instructor: ANS 397/597 Advance Ethics and Welfare in Animal Production

- This course outlines the theories, legislation and science behind animal ethics and welfare. At the 500 level, graduate students will be expected to provide technically sound summaries and higher level novel thought processes.

Instructor: ANS 411 Sheep and Goat Management

- This course outlines the management practices and production cycles of profitable sheep and goat production systems.

Instructor: ANS 413/513 Swine Management

- This course outlines the management practices and production cycles of profitable swine production systems. At the 500 level, graduate students will be expected to provide technically sound summaries and higher level novel thought processes.

Instructor: ANS 319 Anatomy and Physiology of Domestic Animals

- This course covers the anatomy and physiology of all organ systems in domestic animals.

Instructor: ANS 397 Livestock Sales and Marketing

- This course covers all aspects of advertising, marketing and hosting a live animal auction.

Instructor: FDSCI 318 Meats Technology

- This course is an overview of all processes and technologies used from the live animal to the merchandised retail cuts.

Instructor: ASI 105 Introduction to livestock Evaluation (KSU Fall/Spring 2018-2019)

- This lab course involved general animal science knowledge of all meat animal species in both the classroom and laboratory settings with live animal evaluation.
- Guest Lecture:** Livestock and Meat Evaluation, Dr. Scott Schaaake (KSU 2017, 2018 spring)
 - Lecture on handling and behavior of domestic animals used for meat consumption.
- Guest Lecture:** Principles of Animal Disease, Dr. AJ Tarpoff (KSU 2017, 2018 fall)
 - Lecture involved the use of animal behavior as an indicator of animal disease.
- TA:** Farm Animal Reproduction Lab, Esther McCabe (KSU Spring 2017)
 - Laboratory course involving experiential learning with reproduction in the farm animal species through dissection of reproductive tracts.
- TA:** Behavior of Domestic Animals, Dr. Lindsey Hulbert (KSU Fall 2017)
 - This senior level course involved the basics of brain function and behavior nomenclature for domestic and captive animals.
- TA:** Contemporary Issues in animal agriculture, Dr.'s Ken Odde, Lindsey Hulbert (KSU 2014)
 - Corresponded with students on assignments and projects, graded reports and managed online records.
- TA:** Swine Systems Management, Dr. Ken Stalder (ISU Fall 2016)
 - Senior level swine management class with topics ranging from; facility citing, production flow, animal welfare, benchmarking, ventilation/facility management, and public perception.
- Coach:** Texas A&M University-Commerce Livestock Judging Team
 - Teach animal evaluation and oral reason presentation to students. Extensive travel and industry interaction is prevalent.
- Coach:** Texas A&M University-Commerce Animal welfare team
 - Teach legislation and justification for animal care and housing for a variety of species and compete at 1 National Contest each fall.
 - o 2021 TAMU-C 4th High Team
- Assistant coach:** Animal Welfare Judging Team (KSU 2018-2019)
 - Assist with lectures on welfare and housing of respective species, participate in mock audits, then guide students through the development of verbal reasoning and presentation of producer suggestion.

Professional Affiliations

National Pork Board

- PQA+ Advisor certification

North American South Devon Association

- Board Member

Kansas State University Animal Science and Industry Graduate Student Association

- Past Member

Iowa State University AGAS (Association of Graduate Animal Scientists)

- Past Member

American Society of Animal Science

Kansas State University Livestock Judging

- 2013-2014 team member

College of Southern Idaho Livestock Judging
- 2010-2011 team member

Grant Funding Received

2024 Texas A&M University Honors College Research Grant - \$500
2024 Texas A&M University Honors College Research Grant - \$500

Peer Reviewed Publications

Bortoluzzi, Eduarda M., Mikayla J. Goering, Sara J. Ochoa, Aaron J. Holliday, **Jared M. Mumm**, Catherine E. Nelson, Hui Wu et al. "Evaluation of Precision Livestock Technology and Human Scoring of Nursery Pigs in a Controlled Immune Challenge Experiment." *Animals* 13, no. 2 (2023): 246.

Mumm, J.M., Díaz, J.A.C., Stock, J.D., Johnson, A.K., Dekkers, J.C., Ramirez, A., Azarpajouh, S. and Stalder, K.J., 2019. Dynamic space utilization for lame and non-lame gestating sows estimated by the lying-standing sequence. *Livestock Science*, 223, pp.1-7.
<https://doi.org/10.1016/j.livsci.2019.02.014>.

Hulbert, L.E., Bortoluzzi, E.M., Luo, Y., **Mumm, J.M.**, Coffin, M.J., Becker, G.Y., Vandevord, P.J., McNeil, E.M., Walilko, T., Khaing, Z.Z., Zai, L. 2020. Noninvasive, In-pen Approach Test for Laboratory-housed Pigs. *J. Vis. Exp.* 148, e58597, doi:10.3791/58597.

Mumm J.M., J.A. Calderón Díaz, J.D. Stock, A.K. Johnson, A. Ramirez, S. Azarpajouh, K.J. Stalder. 2020. Characterization of the lying and rising sequence in lame and non-lame sows. *App. Anim. Behav.* 226. <https://doi.org/10.1016/j.applanim.2020.104976>.

Mumm, J.M., M. S. Rooda, R. Mazloom, M. J. Coffin, E. M. Bortoluzzi, L. A. Ruiz, M. J. Goering, D. T. Medin, M. Jaber-Douraki, L. E. Hulbert. 2020. Behavioral responses of sows exposed to conventional methods or precision-technology to mitigate piglet-crushing. *J Anim. Sci Livest. Prod.* 4(3):1. DOI: 10.36648/2577-0594.4.3.1.

Publications submitted/in preparation

Mumm, J M, and Hulbert, L E. Aversive stimuli from crushing mitigation strategies affect nursing behaviors in pigs born (first or last). *Animals*. -In Preparation

Extension/Outreach publications

Mumm J.; Stock J. D.; Arzapajouh S.; Johnson A. K.; Stalder K. J.; Calderón Díaz J. A. *Depiction of lying down and standing up sequences in multiparous sows*. Animal Industry Report 2017

Mumm J.; Stock J. D.; Azarpajouh S.; Johnson A. K.; Stalder K. J.; Calderón Díaz J. A. *Time taken for lame and non-lame sows to stand a lie*. Animal Industry Report 2017

Mumm J.; Stock J. D.; Azarpajouh S.; Johnson A. K.; Stalder K. J.; Ramirez A.; Calderón Díaz J. A. *Dynamic space requirements of lame and non-lame sows as they lie and stand*. Animal Industry Report 2017

Mumm J.; Stalder, Kenneth J; Stock, Joe; Calderón Díaz, Julia A. *Identification of the Range of Hock Angles in Lame and Non-lame Replacement Gilts*. Animal Industry Report 2016

Abstracts/Conference Proceedings

Markland, M L, Goering, M J, **Mumm, J M**, Jones, C K, Crane, A R, Hulbert, L E. The development of a non-invasive behavioral test for assessment of goat-human interactions. Undergraduate poster competition Western Section ASAS. June 12, 2019.

M J Goering, **J M Mumm**, M J Coffin, E M Bortoluzzi, L A Ruiz, L E Hulbert; 502 Low-Stress Sampling and Cortisol Concentrations in Periparturient Sows., *Journal of Animal Science*, Volume 96, Issue suppl_2, 10 April 2018, Pages 268, <https://doi.org/10.1093/jas/sky073.499>.

Morgan J. Coffin, Rodrigo Manjarin, **Jared Mumm**, Eduarda M. Bortoluzzi, Luke A. Ruiz, Marl Tommerdahl, Jameson Holden, Laila Zai, Tim X Waliko and Lindsey E. Hulbert
Side-bias and time-of-day influenced cognition after minipigs were conditioned using novel tactile stimulation device ASAS Midwest Section 2018

Calderón Díaz, J. A., **Mumm, J.**, Danielson, A., Arzapajouh, S., Hirano, Stalder, K. Does temperament affect performance in finisher pigs? *Proceedings of the International Society of Applied Ethology UK and Ireland regional meeting. Teagasc Animal and Grassland Research and Innovation Centre, Moorepark, Fermoy, Co. Cork, Ireland. November 11th, 2015, pp 27*

J. Mumm, K. J. Stalder, J. D. Stock, J.C.M. Dekkers, J. A. Calderón Díaz, *Identification of the range of hock angles in replacement gilts* ASAS Midwest Section Abstract 2016

J. Mumm, K. J. Stalder, J. D. Stock, J. A. Calderón Díaz, *Effect of lameness on hock angles of replacement gilts* ASAS Midwest Section Abstract 2016

Julia A Calderon Diaz, Amber M. Danielson, Samaneh Azarpajouh, **Jared M Mumm**, Shoki Hirano, Denise L. Beam, Muhammed Walugembe, Joseph D. Stock, Chandraratne Dematawewa and Kenneth J. Stalder, *The effect of temperament on pork quality* ASAS Midwest Section 2016

Samaneh Azarpajouh, **Jared M Mumm** and Julia A. Calderon-Diaz, *Evaluation of the inter-scorer reliability of body and leg conformation traits in replacement gilts* ASAS Midwest Section 2016

Jared M. Mumm, Joseph D. Stock, Samaneh Azarpajouh, Kenneth J. Stalder, Anna K. Johnson and Julia A Calderon Diaz, *Characterization of the Lying Down Sequence in Lamé and Non-Lamé Sows* ASAS Midwest Section 2017

Jared M. Mumm, Joseph D. Stock, Kenneth J. Stalder, Anna K. Johnson, A. Ramirez, Samaneh Azarpajouh and Julia A Calderon Diaz, *Dynamic Space Requirements of Lamé and Non-Lamé Sows Determined By the Lying-Standing Sequence* ASAS Midwest Section 2017

Jared M. Mumm, Samaneh Azarpajouh, Joseph D. Stock, Kenneth J. Stalder, Anna K. Johnson and Julia A Calderon Diaz, *Do Lamé Sows Need More Time to Stand up?* ASAS Midwest Section 2017

Masters and PhD Students Advised

Ms. Codi Bily MSc. Committee Member – Effects of melatonin on immune responses and behavior in dairy steers following LPS induced inflammation. May 2022.

Ms. Courtney Baldwin MSc. Committee Member – A survey of Texas pork producers current per-weaning management strategies. December 2022.

Ms. Mikaela Heggenstaller MSc. – Committee Member – Non-Thesis. May 2021.

Mr. Hunter Ganske MSc. Committee Member – The effect of creep feeding beef calves: a study on calf, dam, and economic performance. August 2024.

Undergraduate Honors Projects Advised

Mr. Agustin Espinoza –Behavioral Response of Commercial Cattle to Common Handling Methods in Pasture Settings. May 2024.

Ms. Yasmine Taylor – Water intake and performance of neonatal piglets.

Ms. Londyn Brazil – Economic feasibility of double cropping dorper ewes.

Ms. Callie Harter – AI technician impact on conception rate.