

PROFESSIONAL SUMMARY

Professor and Teaching Coordinator at Kansas State University leading one of the largest undergraduate animal science programs. Oversees academic operations for 1,150+ students and ~13,000 student credit hours annually, driving curriculum design, faculty teaching alignment, and measurable student success outcomes. Recognized for integrating applied learning, industry relevance, and data-driven decision-making in large, complex academic programs.

EDUCATION

- 2012 Doctor of Philosophy in Nutritional Sciences, Iowa State University
- 2009 Master of Science in Animal Science, Kansas State University
- 2007 Bachelor of Science in Agriculture, Kansas State University

EMPLOYMENT

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| Kansas State University Department of Animal Sciences & Industry | |
| Professor & Teaching Coordinator | 2021-Present |
| Associate Professor, Undergraduate Research Coordinator | 2016-2021 |
| Assistant Professor, Undergraduate Research Coordinator | 2016-2017 |
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| Kansas State University Department of Grain Science & Industry | |
| Assistant Professor | 2012-2016 |

ADMINISTRATIVE & LEADERSHIP EXPERIENCE

Department Teaching Coordinator

- Leads academic operations for undergraduate students in one of the largest animal science programs globally
 - Leads Departmental recruitment strategy, resulting in
 - Nearly tripled admitted students (430 to 1,247)
 - +216% increase in new student enrollment (195 to 422)
 - Record undergraduate headcount (872 to 1,182)
 - Ensures continuing student care and service. Improved 1-year retention rate (79.2 to 82.2%) while maintaining accessibility (86% of applicants admitted).
 - Aligns curriculum and career placement. Within six months of graduation, 96% of students are employed or continuing their education, with a starting salary nearly 10% above the national average.
- Strategically assigns teaching responsibilities for 40+ teaching faculty across more than 13,000 student credit hours—representing nearly 70% of the College’s instructional load. Responsibilities include setting instructional needs, determining course frequency and sequencing, and balancing scheduling efficiency with faculty expertise and preferences.

- Supervises full-time staff responsible for coordinating prospective student visits, triaging student concerns, maintaining continuing student records, approving minor and certificate completion, and consistently providing exceptional student service
- Chairs Departmental Teaching and Advisory Committee. Recently led year-long program-wide curriculum review to set student learning outcomes and map degree program requirements using a DACUM model, which resulted in the development of a Departmental core taken by all animal science majors shifting from 7 to 23 hours.

Kansas State University Presidential Engagement Fellow

- Cohort of faculty fellows selected to bring university excellence to communities across the state of Kansas by showcasing K-State's vibrant academic community and research excellence, engage directly with schools and civic groups, inspire young minds to pursue higher education, and champion the K-State Opportunity Agenda.

LEAD21 - Leadership Development for the 21st Century Class 21 cohort

- Year-long, immersive experience that sharpened capacity for leading change and building cross-institutional partnerships.

Faculty Senate

- Elected by College of Agriculture colleagues to represent faculty and professional staff
- Served on the Executive Committee and Leadership Council, which meets with the University President and senior leadership team monthly
- Co-Chaired of the Faculty Senate Committee on University Planning, which participates in the shared governance of determining mission related academic priorities at the institutional level and shared governance by which distribution of university appropriated resources in support of the academic, research, and service missions of the university is determined.

Department Undergraduate Research Coordinator

- Served as Coordinator of Undergraduate Research, which included developing the first-ever course-based undergraduate research course and removing barriers to incentivize faculty to host individual undergraduate researchers.
- Students conducting meaningful undergraduate research in Animal Sciences & Industry grew from 34 to 122 (> 350% increase).
- Graduates completing undergraduate research increased from 29% to 43%
- Students being accepted to graduate or professional school grew from 22 to 35%.

TEACHING

Instructional Impact & Effectiveness

- Primary instructor for 4,500+ students across undergraduate and graduate courses in Animal Sciences and Grain Science
- Generates 650+ student credit hours annually across in-person, asynchronous online, and synchronous virtual formats
- Maintains consistently strong teaching effectiveness (Top 10% at Kansas State University)
- Extensive experience teaching large-enrollment courses, fully online programs, and working professionals, including graduate instruction for industry employees
- Expanded fully online degree options, increasing access, flexibility, and student engagement across diverse learner populations

Course Design & Innovation

- Designed coursework centered on real-world decision-making, incorporating industry data, case studies, and complex problem scenarios
- Developed and implemented an online experiential learning research course, expanding access to undergraduate research opportunities without impacting faculty workload
- Designed and delivered fully online, asynchronous courses with structured modules, applied assessments, and student engagement strategies
- Created and delivered professional education programming (synchronous and asynchronous) for adult and industry learners

Program-Level Teaching Leadership

- Leads program-level academic strategy for one of the largest animal science programs in the U.S., including curriculum design, faculty alignment, and instructional delivery at scale
- Chairs departmental Teaching and Advisory Committee, leading a DACUM-based curriculum redesign and implementation of program-level learning outcomes
- Directed alignment of degree requirements with the Kansas Board of Regents General Education Framework and implemented ongoing assessment practices
- Assigns and aligns teaching responsibilities for 40+ faculty, balancing instructional needs, expertise, and workload
- Led expansion of instructional capacity, including advocacy resulting in new teaching faculty positions and modern teaching facilities

Student Success, Advising, & Mentoring

- Faculty advisor for ~90+ undergraduate students annually
- Contributed to measurable student success outcomes:
 - Enrollment growth (+23%) and record program size
 - Improved retention (78.6% → 82.2%)
 - 96% placement within 6 months of graduation
- Developed a stakeholder-funded undergraduate research program, increasing student participation by >350% without additional hard-dollar resources

RESEARCH & SCHOLARSHIP

Scholarship Summary

Refereed Journal Articles: 112

Books or Book Chapters: 8

Awarded Grants and Gifts: \$8.8 million, \$3.2 million as PI

Google Scholar Metrics

Citations: 3,095

h-index: 28

i10-index: 67

Patents and Applications

Active Patent:

1. Chemical mitigants in animal feed and feed ingredients. Active in the United States, China, and the Philippines. Pending applications in Canada, the European Union, Mexico, and the World Intellectual Property Organization. Inventors: C.K. Jones, R.A. Cochrane, J.C. Woodworth, and S.S. Dritz. U.S. Patent Number 10,918,118. Anticipated expiration: November 19, 2035. Currently licensed by PMI Nutritional Additives, a Land O'Lakes/Purina company.

Selected Refereed Journal Articles

1. Kwon, T., J.T. Gebhardt, E.L. Lyoo, C.K Jones, J. Trujillo, N.N. Gaudreault, and J.A. Richt. 2025. Comparison of DNA extraction methods for detecting African swine fever virus in feed and environmental samples. *Fron. Vet. Sci.* DOI: 10.3389/fvets.2025.1675115.
2. Paulk, C.B., K. Dunmire, D. Lopez Diaz, Y. Zhang, J.C. Woodworth, M.D. Tokach, G. Goodband, C.K. Jones, C.R. Stark, and H. Stein. 2024. Effect of the pelleting process on diet formulations with varying levels of crystalline amino acids and reducing sugars on digestibility in growing pigs. *J. Anim. Sci.* 102:skad423. DOI:10.1093.skad423.
3. Dahmer, P.L., C. Zumbaugh, M. Reeb, N. Stafford, Z. Buessing, K. Odde, J. Drouillard, A. Tarpoff, and C. Jones. 2022. Impacts of a post-transport/pre-processing rest period on the growth performance, anthelmintic efficacy, and serum metabolite changes in cattle entering a feed yard. *T. Anim. Sci.* txac085.
4. Jeffrey, A., C.G. Aldrich, A.R. Huss, C. Knueven, C.K. Jones, and C. Zumbaugh. 2022. Effects of a dry acidulant addition to prevent *Salmonella* contamination in poultry feed. *T. Anim. Sci.* txab232.
5. Beyer, E., M. Chao, M. Zumbaugh, J. Vipham, E. Rice, K. Harr, B. Olson, C. Jones, and T. O'Quinn. 2021. Palatability traits of sirloin cap steaks from four USDA quality grades. *Meat Muscle Biol.* 5(1):31-41.
6. Lerner, A.B., M.D. Tokach, J.M. DeRouchey, J.C. Woodworth, S.S. Dritz, R.D. Goodband, and C.K. Jones. 2020. Implementing a species-specific undergraduate research program. *Nat. Sci. Ed.* 49:e20010.
7. Radcliffe, J.S., D.K. Aaron, J. Sterle, M.A.G. von Keyserlingk, N. Irlbeck, M. Maquiver, M. Wulster-Radcliffe, and C.K. Jones. 2020. Moving online: Roadmap and long-term forecast. *Anim. Front.* 10(3):36-45.
8. Williams, H.E., R.A. Cochrane, J.C. Woodworth, J.M. DeRouchey, S.S. Dritz, M.D. Tokach, C.K. Jones, S.C. Fernando, T.E. Burkey, Y.S. Li, R.D. Goodband, and R. Amachawadi. 2018. Effects of dietary supplementation of formaldehyde and crystalline amino acids on gut microbial composition of nursery pigs. *Nature Sci. Rep.* 8:8164-8171.

EXTENSION & ENGAGEMENT

External Engagement

- FAO/WHO External Expert Panel on Hazards Associated with Animal Feed
- European Food Safety Authority Expert Knowledge Elicitation: Assessment of Risk of Matrices to Transmit African Swine Fever Virus
- U.S. Food & Drug Administration Committees
 - Food Safety & Preventative Controls Alliance: Alliance of government, academia, and industry participants tasked with providing guidance to the FDA and industry for the implementation of the Food Safety Modernization Act.
 - Primary Author and Chair of Editorial Subcommittee to create the standardized training material for industry and investigators on Hazard Analysis and Risk-Based Preventive Controls for Animal Food (both in-person and blended course)
- USDA Expert Elicitation: Imports of Non-Animal Origin Feed Ingredients Potentially Contaminated with African Swine Fever Virus
- Dozens of invited presentations across multiple states and organization.
- Representative to USDA/FDA/State response planning for foreign animal disease entry
- American Feed Industry Association Nutrition Committee, previously on Regulatory Committee. Named 2020 Member of the Year for efforts on these committees.

University Service

- Faculty Senate: Executive Committee Member, Leadership Council Member, and Faculty Senate Committee on University Planning Co-Chair
- Provost and Executive Vice President Committee on Teaching Facilities
- Vice President for Administration and Finance Steering Committee on Campus Master Planning
- Vice President for Research Working Group on Technology Transfer and Commercialization
- Office of Undergraduate Research & Creative Inquiry Advisory Board
- Integrity in Research and Scholarly Activity Committee
 - Chaired a University Appendix O Committee on Research Misconduct which led to the dismissal of a tenured faculty member
- Gamma Sigma Delta Past President
- Graduate Program Member: Animal Sciences & Industry, Diagnostic Medicine and Pathobiology, Food Science Institute, Grain Science & Industry
- Office for the Advancement of Women in Science and Engineers GROW (Girls Researching Our World) and EXCITE (Exploring Science, Technology, & Engineering) workshop host
- Search Committees for University Provost and Executive Vice President, General Council, Dean of Agriculture, Associate Dean for Academic Programs in Agriculture, multiple faculty positions
- College Committee on Planning, ex officio member
- Department Committee on Planning Member

AWARDS & HONORS

- 2025 Mortar Board Outstanding Faculty Award at Kansas State University
- 2024 Manhattan (KS) Area Chamber of Commerce *15 Under 40* Honoree to recognize outstanding young professionals who make a positive impact in the community
- 2023 Kansas State University Distinguished Faculty Award for Mentoring of Undergraduate Students in Research
- 2023 Mark and Eva Gardiner Innovation and Excellence Faculty Award
- 2022 USDA Excellence in College and University Regional Teaching Award for Food and Agricultural Sciences
- 2021 Mortar Board Outstanding Faculty Award at Kansas State University
- Earned Effectiveness of College Instruction Certificate from the Association of College and University Education/American Council on Education
- 2020 American Society of Animal Science Early Achievement Award
- 2019 Midwest American Society of Animal Science Outstanding Young Teacher
- 2018-2019 Kansas State University College of Agriculture Advisor of the Year