

CASSANDRA KATHERINE JONES

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EMPLOYMENT

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

EDUCATION

- 2012 Doctor of Philosophy in Nutritional Sciences (Swine Nutrition emphasis)
Iowa State University, Ames, Iowa
- 2009 Master of Science in Animal Science (Swine Nutrition emphasis)
Kansas State University, Manhattan, Kansas
- 2007 Bachelor of Science in Agriculture (Animal Sciences & Industry major)
Kansas State University, Manhattan, Kansas

TEACHING

Scholarship of Teaching Summary

Refereed Journal Articles: 5

Scientific Abstracts: 6

Awarded Grants and Gifts: \$701,972 total, \$376,507 as PI

Referred Journal Articles

1. Harrison, O.L., P.L. Dahmer, J.T. Gebhardt, C.B. Paulk, J.C. Woodworth, and C.K. Jones. 2022. Evaluation of biosecurity measures on a swine operation using Glo Germ powder as a visual learning aid. *J. Swine Health Prod.* 30(6):362-366.
2. 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.
3. Lerner, A.B., M.D. Tokach, J.M. DeRouche, 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.
4. Mendez, E., C. Jones, and V. Trinetta. 2020. Engaging undergraduate students about the importance of food safety. *Food Prot. Trends.* 40(3):164-170.

- Jones, C.K. and A.B. Lerner. 2019. Implementing a course-based undergraduate research experience to grow the quantity and quality of undergraduate research in an Animal Science curriculum. *J. Anim. Sci.* 97(11):4691-4697.

Scientific Abstracts

- Getty, K., K. Whitehair, and C. Jones. 2022. Creating undergraduate research experiences in product development of grain-based foods products for KSU Dining Halls. Institute of Food Technologists Annual Meeting. *Accepted*.
- Mendez, E., C.K. Jones, and V. Trinetta. 2019. Engaging undergraduate students into the importance of food microbiology and safety. International Association of Food Protection Annual Meeting. P1-82.
- Jones, C.K. 2019. Growing the quantity and quality of undergraduate research experiences in animal science. *J. Anim. Sci.* 97(E3):426.
- Jones, C.K. 2019. Undergraduate research experiences improve critical thinking ability of animal science students. *J. Anim. Sci.* 97(E2):237.
- Jones, C.K. and G. Hock. 2018. Evaluation of undergraduate student critical thinking in animal and food sciences. North American Colleges and Teachers of Agriculture Conference.
- Jones, C.K. 2017. Impact of student demographics on confidence of critical thinking proficiency. North American Colleges and Teachers of Agriculture Conference. *NACTA.* 61(1):0088.

Awarded Grants and Gifts

- Gifts to the Kansas State University Foundation to support the ASI Undergraduate Research Program directed by **C.K. Jones** (Dr. Mark and Kim Young, Tom Jones, ADDCON, Seaboard Foods, Dairy Nutrition Plus, Tyson Fresh Meats).
- National Pork Board Swine Research and Educational Experiences. 2019. **C. Jones**.
- Kansas Corn Commission. Utilizing undergraduate research to evaluate DDGS and ionophore inclusion in Boer goat grower rations. 2019. A. Crane, **C. Jones**, J. Lattimer.
- Kansas Corn Commission. Utilizing undergraduate research to evaluate DDGS or corn gluten feed in Boer goat grower rations. 2018. A. Crane, **C. Jones**, J. Lattimer.
- Kansas Corn Commission. Utilizing undergraduate research to evaluate DDGS as a replacement for soybean meal in Boer goat grower rations. 2017. A. Crane, **C. Jones**.
- National Pork Board Swine Research and Educational Experiences. 2017. **C. Jones**.

Undergraduate Research Program Growth

	2016	2017	2018	2019	2020	2021
Credit Hours Generated for Undergraduate Research	50	128	144	167	161	224
Students Presenting at Univ./Regional/National Level	41	75	82	88	80	120
Graduates Attending Graduate or Professional School	n/a	22%	27%	35%	38%	35%
Graduates Completing Undergraduate Research	n/a	29%	33%	38%	39%	43%

Academic Advising

	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22
Academic advisees	9	13	18	23	38	50	61	57	55	64	98
Advisee satisfaction	100%	100%	100%	100%	96%	98%	95%	98%	100%	100%	

Teaching Effort and Impact

Student Enrollment / Teaching Evaluation Raw Score for Overall Effectiveness
on a scale of 1.0 (low) to 5.0 (high)

Semester	ASI 101 Foundations in ASI	ASI 218/318 Fund. of Nutrition	ASI 220/320 Princ. of Feeding	ASI 560/561 Undergrad . Research	ASI 675 Monogastric Nutrition	GRSC 101 Intro to Grain Science	GRSC 561 Qualities of Feed Ingredients	GRSC 790 Animal Feed Safety	Total
F12						132 / 4.2			132 / 4.2
S13							10 / 4.6		10 / 4.6
F13						107 / 4.6			107 / 4.6
S14							18 / 4.7	9 / 5.0	27 / 4.8
F14						117 / 4.6			117 / 4.6
S15							23 / 4.6		23 / 4.6
F15						109 / 4.7			109 / 4.7
S16							21 / 4.9	17 / 4.9	38 / 4.8
F16						146 / 4.8			146 / 4.8
S17		133 / 4.5		15 / 4.8					148 / 4.5
F17				20 / 4.6	43 / 4.6				63 / 4.6
S18		143 / 4.7		20 / 4.7					163 / 4.7
F18				35 / 4.7	37 / 4.9				72 / 4.8
S19		143 / 4.5		39 / 4.6					182 / 4.5
F19				28 / 4.8	36 / 4.8				64 / 4.8
S20		143 / 4.6		38 / 4.8					181 / 4.6
F20		96 / 4.8		28 / 4.8	51 / 4.6				175 / 4.7
S21		148 / 4.8		50 / 4.8					198 / 4.8
F21				56 / 4.8	70 / 4.6				126 / 4.7
S22		120 / 4.7		56 / 4.8					176 / 4.7
F22	161 / 4.5	91 / 4.7			54 / 4.7				306 / 4.6
S23			73/4.7						73/4.7
Students Taught	161	1,017	73	385	291	611	72	26	2,636
Credit Hours Generated	161	3,051	219	770	291	1,833	216	52	6,593
Weighted Average TEVAL	4.5	4.7	4.7	4.8	4.7	4.6	4.7	4.9	4.7

Teaching Awards and Honors

- 2023 Kansas State University Distinguished Faculty Award for Mentoring of Undergraduate Students in Research
- 2022 United States Department of Agriculture 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
- Participated in 13 teaching and/or advising workshops
- 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

RESEARCH

Scholarship of Research Summary

Refereed Journal Articles: 95

Books or Book Chapters: 7

Awarded Patents: 2

Awarded Grants and Gifts: \$8.1 million, \$2.8 million as PI

Google Scholar Metrics

Citations: 1,972

h-index: 24

i10-index: 50

Referred Journal Articles

1. Dahmer, P.L., J. DeRouchey, J. Gebhardt, C. Paulk, and C.K. Jones. 2023. Summary of methodology used in enterotoxigenic *Escherichia coli* (ETEC) challenge experiments in weanling pigs and quantitative assessment of observed variability. *T. Anim. Sci.* *Accepted*.
2. Velasco Ayala, C. L.A Koulicoff, C.K. Chun, T.G. O'Quinn, E. Boyle, M. Richards, C.K. Jones, and M.D. Chao. 2023. Exploring the effects of incorporating egg powder containing phospholipase $\alpha 2$ antibody to ground striploin on its shelf-life. *Meat Muscle Biol.* *Accepted*.
3. Schwan, C.L., L. M. Bastos, S. Young, K. Domesle, B. Ge, C.H. Hsu, C. Li, E. Strain, J. Vipham, C.K. Jones, R. Amaachawadi, T.G. Nagaraja, and V. Trinetta. 2023. Genotypic and phenotypic characterization of antimicrobial and heavy metal tolerance in *Salmonella enterica* and *Escherichia coli* isolates from swine feed mills. *J. Food Protect.* *Accepted*.
4. Harrison, O.L., K.W. Li, J.T. Gebhardt, C.B. Paulk, J.C. Woodworth, S. Rensing, C.K. Jones, and V. Trinetta. 2023. Investigation of the environmental presence of *Salmonella* spp. In finishing pigs at commercial swine farms in Kansas (United States). *Lett. Appl. Microbiol.* *Accepted*.
5. Blomme, A.K., T.L. Ackerman, C.K. Jones, J.T. Gebhardt, J.C. Woodworth, C.B. Paulk, and R.M. Pogranichniy. 2023. Insolation of porcine reproductive and respiratory syndrome virus from feed ingredients and complete feed, with subsequent RT-qPCR analysis. *J. Vet. Diagn.* *Accepted*.
6. Houston, C.G., C.K. Jones, J.C. Woodworth, C.B. Paulk, S.S. Dritz, and J.T. Gebhardt. 2023. Evaluating the impact of organic matter and sample processing techniques on RNA detection using environmental samples. *J. Swine Health Prod.* 30(2):87-91.
7. Harrison, O.L., C.G. Houston, A. Blomme, H. Otott, J. Bai, J. Woodworth, C. Paulk, J. Gebhardt, and C. K. Jones. 2022. Evaluating a dry vs. wet disinfection in boot baths on detection of porcine epidemic diarrhea virus and porcine reproductive and respiratory virus RNA. *T. Anim. Sci.* txac150.
8. Dahmer, P.L., O.L. Harrison, and C.K. Jones. 2022. Effects of formic acid and glycerol monolaurate on weanling pig growth performance, fecal consistency, fecal microbiota, and serum immunity. *T. Anim. Sci.* txac145.
9. Houston, G.E., C.K. Jones, J.C. Woodworth, R. Palinski, C.B. Paulk, T. Petznick, and J.T. Gebhardt. 2022. Detection and investigation of Atypical Porcine Pestivirus in a swine production system. *Fron. Vet. Sci.* 11(9):998344.
10. Saensukjaroenphon, M., C. Jones, C. Evans, J. Gebhardt, J. Woodworth, C. Stark, J. Bergstrom, and C. Paulk. 2022. Impact of storage conditions and premix type on water-soluble vitamin stability. *T. Anim. Sci.* txac135.
11. Stewart, S., C. Jones, J. Gebhardt, J. Woodworth, C. Paulk, C. Vier, O. Harrison, C. Zumbaugh, and S. Dritz. 2022. The application of environmental monitoring of PEDV within a swine system during a disease outbreak. *J. Swine Health Prod.* 30(5):308-312.

12. Dahmer, P.L., F. McDonald, C. Chun, C. Zumbaugh, C. Jones, A. Crane, T. Kott, J. Lattimer, and M. Chao. 2022. Evaluating the impact of feeding dried distillers grains plus solubles on Boer goat growth performance, meat color stability, and antioxidant capacity. *T. Anim. Sci.* txac060.
13. 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.
14. Harrison, O.L., J.T. Gebhardt, C.B. Paulk, J.C. Woodworth, and C.K. Jones. 2022. Developing a gateway program for importing non-animal origin ingredients from regions with African swine fever virus. *Trans. Emerg. Dis.* 69(5):e1407-e1416.
15. Muckey, M., A. Huss, and C.K. Jones. 2022. Evaluation of liquid and dry chemical treatments to reduce *Salmonella* typhimurium concentration on animal food manufacturing surfaces. *J. Food Protect.* JFP-21-240.
16. Harrison, O.L., J.T. Gebhardt, C.B. Paulk, B.L. Plattner, J.C. Woodworth, S. Rensing, C.K. Jones, and V. Trinetta. 2022. Inoculation of weaned pigs by feed, water, and airborne transmission of *Salmonella* enterica Serotype 4,[5],12:i:-. *J. Food Protect.* 21:418.
17. Harrison, O.L., S. Rensing, C.K. Jones, and V. Trinetta. 2022. *Salmonella* enterica 4,[5],12:i:- an emerging threat for the swine feed and pork production industry. *J. Food Protect.* 21:400.
18. LaRoche, E.M., W.J. Wu, P. Garcia, B. Song, C.K.Y. Chun, C.K. Jones, A.R. Crane, T.G. O'Quinn, and M.D. Chao. 2022. Evaluation of skin-on goat meat processing efficiency, carcass yield, meat quality, and sensory attributes. *Meat Sci.* 184:108675.
19. Gebhardt, J.T., S.S. Dritz, C.G. Elijah, C.K. Jones, C.B. Paulk, and J.C. Woodworth. 2022. Sampling and detection of African swine fever virus within a feed manufacturing and swine production system. *Trans. Emerg. Dis.* 69(1):103-114.
20. Elijah, C.E., J.D. Trujillo, C.K. Jones, T. Kwon, C.R. Stark, K.R. Cool, C.B. Paulk, N.N. Gaudreault, J.C. Woodworth, I. Morozov, C. Gallardo, J.T. Gebhardt, and J.A. Richt. 2022. Effect of mixing and feed batch sequencing on the prevalence and distribution of African swine fever virus in swine feed. *Trans. Emerg. Dis.* 69(1):115-120.
21. Blomme, A., C.K. Jones, J.T. Gebhardt, J.C. Woodworth, and C.B. Paulk. 2022. Assessment of soy-based imports into the United States and associated foreign animal disease status. *Trans. Emerg. Dis.* 69(1):137-148.
22. 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.
23. Yoder, A.D., C.R. Stark, J. DeRouchey, M. Tokach, C. Paulk, J. Gebhardt, J. Woodworth, C.K. Jones, and C. Zumbaugh. 2021. Effect of cleaning corn on mycotoxin concentration and nursery pig growth performance. *T. Anim. Sci.* 5(3):txab134.
24. Elijah, C.E., O.L. Harrison, A.K. Blomme, J.C. Woodworth, C.K. Jones, C.B. Paulk, and J.T. Gebhardt. 2021. Understanding the role of the feed supply chain within a series of porcine deltacoronavirus investigations. *J. Swine Health Prod.* 30(1):17-23.
25. Elijah, C.E., J.D. Trujillo, C.K. Jones, N. N. Gaudreault, C.R. Stark, K.R. Cool, C.B. Paulk, T. Kwon, J.C. Woodworth, I. Morozov, C. Gallardo, and J.A. Richt. 2021. Evaluating the distribution of African swine fever virus within a feed mill environment following manufacture of inoculated feed. *PLoS ONE* 16(8):e0256138.

26. 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.
27. Muckey, M., C. Jones, J. Woodworth, C. Paulk, S. Dritz, and J. Gebhardt. 2021. Using environmental sampling to evaluating the effectiveness of decontamination methods to reduce the detection of porcine epidemic diarrhea virus RNA on feed manufacturing surfaces. *T. Anim. Sci.* txab121.
28. Molitor, A., U. Yucel, C. Jones, J. Vipham, and V. Trinetta. 2021. Effects of moisture and temperature on *Salmonella* survivability in beef tallow, white grease, and chicken rendered fat. *T. Anim. Sci.* txab110.
29. Huss, AA., C. Jones, C. Stark, S. Fleming, R.N. Dilger, and J. Jendza. 2021. Sodium buffered formic acid concentration and feed pH is stable over a 3-month period. *T. Anim. Sci.* txab085.
30. Sorensen, R. C. Jones, A. Crane, and J. Lattimer. 2021. Efficacy of corn dried distillers grains with solubles as a replacement for soybean meal in Boer-cross goat finishing diets. *Small Rum. Nutr.* 201:106411.
31. Dahmer, P.L. and C.K. Jones. 2021. Evaluating dietary acidifiers as alternatives for conventional feed-based antibiotics in nursery pig diets. *T. Anim. Sci.* txab040.
32. Dee, S., A. Shah, C. Jones, A. Singrey, D. Hanson, R. Edler, G. Spronk, M. Niederwerder, and E. Nelson. 2021. Evidence of viral survival in representative volumes of feed and feed ingredients during long-distance commercial transport across the continental United States. *Trans. Emerg. Dis.* 00:1-8.
33. Gebhardt, J.T., S.S. Dritz, F.J. Domingues, Jr., C.K. Jones, J.C. Woodworth, and C.B. Paulk. 2021. Importance of feed biosecurity in relation to swine health: What lessons can be learned from preliminary monitoring for African swine fever virus in a region of ongoing transmission. *J. Amer. Vet. Med. Assoc.* 258:35-38.
34. Acosta, J.A., A. Petry, S. Gould, C.K. Jones, C.R. Stark, A.C. Fahrenholz, and J.F. Patience. 2020. Can the digestibility of corn distillers dried grains with solubles fed to pigs at two stages of growth be enhanced through management of particle size using a hammermill or a roller mill? *T. Anim. Sci.* 4(3):txaa171.
35. Dahmer, P.L., G.E. Luebcke, A.B. Lerner, and C.K. Jones. 2020. Effects of Medium Chain Fatty Acids (MCFA) as alternatives to ZnO or antibiotics in nursery pig diets. *T. Anim. Sci.* 4(3):txaa151.
36. Boccato, G. E. Lambertini, L. Noll, C. Jones, J. Bai, T.G. Nagaraja, R. Phebus, J. Woodworth, and V. Trinetta. 2020. Potential risk-factors affecting *Salmonella* spp. and *E. coli* occurrence and distribution in Midwestern United States swine feed mills. *J. Appl. Microbiol.* 129(6):1744-1750
37. Muckey, M., A.R. Huss, A.D. Yoder, and C.K. Jones. 2020. Evaluating the roles of surface sanitation and feed sequencing on mitigating *Salmonella* Enteritidis contamination on animal food manufacturing equipment. *J. Poult. Sci.* 99(8):3841-3845.
38. Stewart, S.S., J.C. Woodworth, S.S. Dritz, C.B. Paulk, and C.K. Jones. 2020. A review of strategies to impact swine feed biosecurity. *Anim. Health Res. Rev.* 21:61-68.
39. Saensukjaroenphon, M., C.E. Evans, C.B. Paulk, J.T. Gebhardt, J.C. Woodworth, C.R. Stark, J.R. Bergstrom, and C.K. Jones. 2020. Impact of storage conditions and premix type on fat-soluble vitamin stability. *T. Anim. Sci.* txaa143.

40. Dee, S., M. Niederwerder, G. Patterson, R. Cochrane, C. Jones, D. Diel, E. Nelson, G. Spronk, E. Brockhoff, and P. Sundberg. 2020. The risk of viral transmission in feed: What do we know, what do we do? *Trans. Emerg. Dis.* 00:1-7.
41. Jones, C.K., J. Woodworth, S. Dritz, and C. Paulk. 2020. Foreign animal disease in the feed industry: What are the risks, and what can we do? *Cereal Foods World.* 65(1)1-8.
42. Acosta, J.A., A. Petry, S. Gould, C.K. Jones, C.R. Stark, A. Fahrenholz, and J.F. Patience. 2020. Effects of grinding method and particle size of wheat grain on energy and nutrient digestibility in growing and finishing pigs. *T. Anim. Sci.* 4:1-12.
43. Lerner, A.B., R.C. Cochrane, J.C. Gebhardt, S.S. Dritz, C.K. Jones, J.M. DeRouchey, M.D. Tokach, R.D. Goodband, J. Bai, E. Poulsen, J. Anderson, P.C. Gauger, D. Magstadt, B. Bass, J.Q. Zhang, T.P. Karnezos, B. de Rodas, and J. Woodworth. 2020. Effects of medium chain fatty acids as a mitigation or prevention strategy against porcine epidemic diarrhea virus in swine feed. *J. Anim. Sci.* 98(6):1-7.
44. Saensukjaroenphon, M., C.B. Paulk, J.T. Gebhardt, J.C. Woodworth, C.R. Stark, and C.K. Jones. 2020. Impact of storage conditions and premix type on phytase stability. *T. Anim. Sci.* 4(3):txaa049.
45. Gebhardt, J.C., K. Thompson, J.C. Woodworth, S.S. Dritz, M.D. Tokach, J.M. DeRouchey, R.D. Goodband, C.K. Jones, R.C. Cochrane, M.C. Niederwerder, S.C. Fernando, and T.E. Burkey. 2020. Effect of dietary medium chain fatty acids on nursery pig growth performance, fecal microbial composition, and mitigation properties against porcine epidemic diarrhea virus following storage. *J. Anim. Sci.* 98(1):skz358.
46. Cochrane, R.C., S.S. Dritz, J.C. Woodworth, C.R. Stark, M. Saensukjaroenphon, J. Gebhardt, J. Bai, P.C. Gauger, M.D. Tokach, and C.K. Jones. 2020. Assessing the effects of medium chain fatty acids and fat sources on PEDV infectivity. *T. Anim. Sci.* 4(2):txz179.
47. Acosta, J.A., A. L. Petry, S.A. Gould, C. K. Jones, C.R. Stark, A. C. Fahrenholz, and J. F. Patience. 2019. Enhancing digestibility of corn fed to pigs at two stages of growth through management of particle size using a hammermill or roller mill *T. Anim. Sci.* 4(1):txz146.
48. Jones, C.K., J.C. Woodworth, S.S. Dritz, and C.B. Paulk. 2019. Reviewing the risk of feed as a vehicle for swine pathogen transmission. *Vet. Med. Sci.* 00:1-8.
49. Jones, C.K., S. Stewart, J.C. Woodworth, S.S. Dritz, and C.B. Paulk. 2019. Validation of sampling methods in bulk feed ingredients for detection of swine viruses. *Trans. Emerg. Dis.* 00:1-5.
50. Magossi, G., M. U. Yucel, C.K. Jones, and V. Trinetta. 2019. Effects of different moisture and temperature levels on *Salmonella* survival in poultry fat. *T. Anim. Sci.* 3(4):txz090.
51. Niederwerder, M.C., A.M.M. Stoian, R.R. Rowland, S.S. Dritz, V. Petrovan, L.A. Constance, J.T. Gebhardt, M. Olcha, C.K. Jones, J.C. Woodworth, Y. Fang, J. Liang, and T.J. Hefley. 2019. Infectious dose of African swine fever virus when consuming naturally in liquid and plant-based feed. *Emerg. Infect. Dis.* 25(5):891-897.
52. Magossi, G., J. Bai, N. Cernicchiaro, C.K. Jones, E. Porter, and V. Trinetta. 2019. Seasonal presence of *Salmonella* spp., *Salmonella* Typhimurium and its monophasic variant serotype I 4,[5],12:i:-, in selected United States swine feed mills. *Foodborne Path. Dis.* 16(4):276-281.
53. Trinetta, V., A. McDaniel, G. Magossi, U. Yucel, and C.K. Jones. 2019. Effects of different moisture and temperature levels on *Salmonella* survival in poultry fat. *T. Animal. Sci.* 3(4):1369-1374.
54. Saensukjaroenphon, M., C.E. Evans, C.K. Jones, C.H. Fahrenholz, C.B. Paulk, and C.R.

- Stark. 2019. The effect of liquid application time and wet mix time with different mixer types on uniformity of mix. *J. Anim. Sci. Res.* 3(2):1-4.
55. Yoder, A.D., C.R. Stark, M.D. Tokach, and C.K. Jones. 2019. Effects of pellet mill processing parameters on pellet quality and nursery pig growth performance. *T. ASABE.* 62(2):439-446.
56. Schumacher, L.L., R.A. Cochrane, A.R. Huss, J.T Gebhardt, J.C. Woodworth, C.R. Stark, C.K. Jones, J. Bai, R.G. Main, Q. Chen, J. Zhang, P.C. Gauger, J.M. DeReouchey, R.D. Goodband, M.D. Tokach, and S.S. Dritz. 2018. Feed batch sequencing to decrease the risk of porcine epidemic diarrhea virus (PEDV) cross-contamination during feed manufacturing. *J. Anim. Sci.* 96(11):4562-4570.
57. Yoder, A.D., C.K. Jones, K. Herrick, C.R. Stark, and C.B. Paulk. 2018. Effects of low oil DDGS on pellet quality and pellet mill motor electrical efficiency. *Appl. Eng. Agric.* 35(1):103-108.
58. Donadelli, R., C.K. Jones, R.S. Beyer, and G.C. Aldrich. 2018. The amino acid composition and protein quality of various egg, poultry meal by-products, and vegetable proteins used in the production of dog and cat diets. *J. Poult. Sci.* 98(3):1371-1378.
59. Gebhardt, J.T., R.A. Cochrane, J.C. Woodworth, C.K. Jones, M.C. Niederwerder, M.B. Muckey, C.R. Stark, M.D. Tokach, J.M. DeRouchey, R.D. Goodband, J. Bai, P.C. Gauger, Q. Chen, J. Zhang, R.G. Main, and S.S. Dritz. 2018. Evaluation of the effects of flushing feed manufacturing equipment with chemically treated rice hulls on porcine epidemic diarrhea virus (PEDV) cross contamination during feed manufacturing. *J. Anim. Sci.* 96(10):4149-4158.
60. Magossi, G., N. Cernicchiaro, S. Dritz, T. Houser, J. Woodworth, C. Jones, and V. Trinetta. 2018. Evaluation of Salmonella presence in selected United States feed mills. *MicrobiologyOpen.* e711.
61. Martinez, A., C.K. Jones, C.R. Stark, L.J. McKinney, K.C. Behnke, and C.B. Paulk. 2018. Evaluating flushing procedures to prevent nicrbazin carryover during medicated feed manufacturing. *J. Feed Sci. Technol.* 242:1-7.
62. Gebhardt, J.T., C.B. Paulk, J.A. DeJong, M.D. Tokach, J.C. Woodworth, J.M. DeRouchey, R.D. Goodband, K.F. Coble, C.R. Stark, C.K. Jones, and S.S. Dritz. 2018. Effect of roller mill configuration on growth performance of nursery and finishing pigs and milling characteristics. *J. Anim. Sci.* 96(6):2278-2292.
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Books, Book Chapters, and Factsheets

1. Huss, A., R. Cochrane, C. Jones, and G.G. Atungulu. *Physical and chemical methods for the reduction of biological hazards in animal feeds*. In: *Food and Feed Safety Systems and Analysis*. S.C. Ricke, G.G. Atungulu, C.E. Rainwater, and S.H. Park, eds. Cambridge, MA: Elsevier Academic Press, 2018. Print.
2. Huss, A., R. Cochrane, M. Muckey, and C. Jones. *Animal feed mill biosecurity: Prevention of biological hazards*. In: *Food and Feed Safety Systems and Analysis*. S.C. Ricke, G.G. Atungulu, C.E. Rainwater, and S.H. Park, eds. Cambridge, MA: Elsevier Academic Press, 2018. Print.
3. *Preventive Controls for Animal Food Participant Manual, Instructor Manual, and Exercise Workbook v1.1*. Jones, C.K., C.R. Stark, B.M. Miller, and A.C. Fahrenholz, eds. Illinois: Food Safety Preventive Controls Alliance, 2017. Electronic.
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5. Cochrane, R.A. and C.K. Jones. *The Role of PEDV in Feed: Current Knowledge and Understanding*. National Pork Board. Des Moines, IA: In-House Publishing, 2016. Print.
6. *Feed Pelleting Reference Guide*. Jones, C.K., C.R. Stark, and A.C. Fahrenholz, eds. Illinois: WATT Ag Net, 2014. Electronic.
7. Neil, C.R., J.M. DeRouchey, and C.K. Jones. *Feed Manufacturing*. In: *PIC Nutrient Specifications Manual 2013*. PIC USA. Hendersonville, TN: In-House Publishing, 2013. Print.

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.

Applications:

2. Chemical mitigation of African swine fever virus and classical swine fever virus. Pending applications in Brazil, Canada, China, European Union, Japan, Mexico, the United States, Philippines, Russia, South Korea, and the World Intellectual Property Organization. Inventors: M.C. Niederwerder, R.R.R. Rowland, C.K. Jones, S.S. Dritz, and J.C. Woodworth. U.S. Publication Number: US 2021/0046144 A1.

COOPERATIVE EXTENSION/OUTREACH

Invited Presentations

1. Association of American Feed Control Officials. Advancing human and animal health and safety. August 2022. St. Louis, MO.
2. North American Renderers Association. Preventive controls for animal food. June 2022. Minneapolis, MN.
3. Animal Nutrition Association of Canada. Biosecurity and viral transmission through feed. May 2022. Virtual.
4. U.S. Grains Council. Bioseguridad y vacunación la solución? March 2022. Virtual.
5. American Feed Industry Association. Update on African swine fever. March 2022. San Francisco, CA.
6. U.S. Soybean Export Council. ASF case studies in Vietnam and updates on vaccine production. February 2022. Virtual.
7. Wisconsin Agribusiness Classic. African Swine Fever Virus: What you need to know if ASFV enters the United States. January 2022. Madison, WI.
8. Northern Crops Institute. African Swine Fever Virus transmission risk through feed in the U.S. December 2021. Virtual.
9. Agrifirm Southeast Asia. The role of medium chain fatty acids to mitigate swine viruses. November 2021. Virtual.
10. American Feed Industry Association. African Swine Fever Virus and its impact in the United States. October 2021. Virtual.
11. American Feed Industry Association. African Swine Fever Virus transmission risk through feed in the U.S. August 2021. Orlando, FL.
12. U.S. Soybean Export Council. Transmission of African Swine Fever Virus association with feed and feed ingredients. July 2021. Virtual.
13. United States Swine Health Improvement Program. Considerations for US-SHIP for feed ingredients of non-animal origin being imported from ASFV/CSFV endemic regions. June 2021. Virtual.
14. United States Department of Agriculture Animal and Plant Health Inspection Service. Feed contamination, additives, and future directions for research. May 2021. Virtual.
15. Feed Safety Task Force. Identifying the demand, structure, and cost:benefit for a gateway program to import non animal-origin ingredients into the U.S. from ASFV-endemic regions. May 2021. Virtual.
16. Feed & Grain Magazine. Innovations in biosecurity measures for feed mills. March 2021. Virtual.
17. United States Department of Agriculture Agricultural Research Service International Biosafety & Biocontainment. Biorisks on the farm: Practices to prevent pathogen transmission to and from animals. February 2021. Virtual.
18. Feed Strategy Magazine. Feed safety and biosecurity during transportation. December 2020. Virtual.
19. Animal Nutrition Association of Canada. African Swine Fever Virus, the feed link, and why it matters to your business. September 2020. Virtual.
20. Allen D. Leman Conference. The role of feed in disease outbreaks: Experiences from Kansas, Vietnam, Brazil, and Beyond. September 2020. Virtual.
21. Feed Risk Task Force. Sampling, testing, and feed risk research. August 2020. Virtual.
22. American Feed Industry Association. Update on African swine fever virus and other foreign animal diseases. July 2020. Virtual.

23. Farm Foundation. African swine fever virus – Risks for Entry. February 2020. Washington, DC.
24. Food and Agriculture Organisation of the United Nations International Food Regulators Meeting. Status of research on virus transmission in feed. Jan. 2020. Atlanta, GA.
25. International Production and Processing Expo. Swine feed mill biosecurity: Prevention of domestic and foreign animal diseases. Jan. 2020. Atlanta, GA.
26. POET. Understanding the role of DDGS in feed safety. January 2020. Virtual.
27. Nestlé Purina North America. African swine fever virus preparedness for the pet food industry. Jan. 2020. St. Louis, MO.
28. Department of Homeland Security Critical Infrastructure Partnership Advisory Council. African swine fever virus in the feed supply chain. Nov. 2019. Virtual.
29. Pet Food Institute Annual Meeting. Foreign animal diseases and animal food – emerging issues. Oct. 2019. Kansas City, MO.
30. National Grain and Feed Association Annual Conference. Feed mill biosecurity. Oct. 2019. Kansas City, MO.
31. Allen D. Leman Conference. What can we do? Methods to keep viruses out of the feed supply chain. Sept. 2019. Minneapolis, MN.
32. Feed Risk Task Force. Monitoring and Surveillance of feed and ingredients for African swine fever virus. Sept. 2019. Arlington, VA.
33. China Agricultural University. Transmission of swine diseases through the feed supply chain. Aug. 2019. Beijing, China.
34. Elanco Animal Health. African swine fever virus: What’s going on and how it is impacting U.S. proteins. Aug. 2019. Salina, KS.
35. Association of American Feed Control Officials. Animal food safety – a review of available training and resources via Universities. Aug. 2019. Lexington, KY.
36. Reciprocal Meats Conference. Pet food regulatory compliance with the Food Safety Modernization Act. June 2019. Fort Collins, CO.
37. United States Food and Drug Administration. African swine fever virus and other foreign animal disease transmission via animal food. June 2019. Rockville, MD.
38. United States Department of Agriculture. Sampling bulk feed ingredients for detection of swine viruses. June 2019. Washington, DC.
39. American Feed Industry Association. African swine fever virus and foreign animal disease transmission via feed. May 2019. Orlando, FL.
40. Swine Medicine Education Center Swine Emerging Diseases Diagnosis and Management. Risk of disease transmission through feed. March 2019, Nov. 2019. Virtual.
41. American Association of Swine Veterinarians. Investigating feed and feed mill risks. Mar. 2019. Orlando, FL.
42. Mid-Continental Association of Food & Drug Officials and Heartland Roundtable. Food Safety Modernization Act Preventive Controls for Animal Food update. Feb. 2019. Manhattan, KS.
43. Iowa State University Department of Animal Science. Feed mill biosecurity. Jan. 2019.
44. Pet Food Institute. Factors impacting poultry fat safety during transportation. Dec. 2018. Washington, DC.
45. Iowa State University James D. McKean Swine Disease Conference. Feed mill biosecurity. Nov. 2018. Ames, IA.

46. NutriQuest. African swine fever virus strategies for feed safety. Oct. 2018. Virtual.
47. United States Animal Health Association. Addressing disease threats in the feed supply. Oct. 2018. Kansas City, MO.
48. National Grain and Feed Association Annual Meeting. Current knowledge on the potential for virus transmission through swine feed. Sept. 2018. St. Louis, MO.
49. Pet Food Institute Annual Meeting. Pathogen transmission and animal food. Sept. 2018. St. Louis, MO.
50. Allen D. Leman Swine Conference. Feed testing and feed mill biosecurity. Sept. 2018. Minneapolis, MN.
51. Swine Health Information Center Committee. Role of environmental monitoring to evaluate feed safety. Mar. 2018. Virtual.
52. Midwest American Society of Animal Science Meeting. Practical strategies to maintain feed safety. Mar. 2018. Omaha, NE.
53. Pet Food R&D Showcase. Using grain-based diets to maximize pet food safety. Feb. 2018. Manhattan, KS.
54. Neogen. Mycotoxin analysis – A tool for FSMA compliance. Dec. 2017. Virtual.
55. Pet Food Institute Annual Meeting. Preparing for new conversation-based FSMA inspections. Oct. 2017. Louisville, KY.
56. National Grain and Feed Association Annual Meeting. Conducting an effective animal feed hazard evaluation. Oct. 2017. Louisville, KY.
57. Zinpro Short Course. Feed Safety. August 2017. Manhattan, KS.
58. Seaboard Corp. Good manufacturing practices and FSMA compliance. Jan. 2017. Atlanta, GA.

Web Presence

1. KSUFeed.org and <https://www.asi.k-state.edu/research-and-extension/feedsafetyresources/index.html> primary editor and contributor
2. Animal Food Hygiene and Animal Food Safety. 2017. <https://youtu.be/O6kflfOqxYs>. 9,250 views.

Extension Publications

New Prairie Press: 18,462 downloads from 1,291 institutions in 149 countries.

1. Houston, G.E., J.D. Trujillo, C.K. Jones, T. Kwon, C.R. Stark, K.R. Cool, C.B. Paulk, N.N. Gaudreault, J.C. Woodworth, I. Morozov, C. Gallardo, J.T. Gebhardt, and J.A. Richt. 2022. Persistence of African Swine Fever virus in feed and feed mill environment over time after manufacture of experimentally inoculated feed. Kansas State University Agricultural Experiment Station Research Reports. 8:10(45).
2. Dahmer, P.L., Z.T. Buessing, N.B. Stafford, M.E. Reeb, C.A. Zumbaugh, A.J. Tarpoff, K.G. Odde, J.S. Drouillard, M. Theurer, T. Jones, and C.K. Jones. 2022. Impacts of a post-transport/pre-processing rest period on the growth performance and serum metabolites of cattle entering a feedlot. Kansas State University Agricultural Experiment Station Research Reports. 8:1(11).
3. Harrison, O.L., G.E. Houston, A.K. Blomme, H.K. Otott, J. Bai, E. G. Poulsen Porter, J.C. Woodworth, C.B. Paulk, J.T. Gebhardt, C.K. Jones. 2022. Evaluating a dry vs. wet disinfection in boot baths on detection of porcine epidemic diarrhea virus and porcine reproductive respiratory syndrome virus RNA. Kansas State University Agricultural

- Experiment Station Research Reports. 8:10(43).
4. Harrison, O.L., J.T. Gebhardt, C.B. Paulk, B.L. Plattner, J.C. Woodworth, S. Rensing, C.K. Jones, and V. Trinetta. 2022. Inoculation of weaned pigs by feed, water, and airborne transmission of *Salmonella enterica* serotype 4,[5],12:i:-. Kansas State University Agricultural Experiment Station Research Reports. 8:10(44).
 5. Saensukjaroenphon, M., C.E. Evans, C.K. Jones, C.R. Stark, and C.B. Paulk. 2022. Effect of feed form, corn particle size, and extrusion of corn on broiler performance. Kansas State University Agricultural Experiment Station Research Reports. 8:11(4).
 6. Scotten, S. and C.K. Jones. 2021. K-State meat goat show guide. MF3572.
 7. Blomme, A., C.B. Paulk, C. Jones, J. Woodworth, and J. Gebhardt. 2021. Feed mill biosecurity for feed mill managers. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. MF3550.
 8. Jones, C.K. and O.L. Harrison. 2021. Salmonella in livestock feed. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. MF3549.
 9. Jones, C.K., C.G. Elijah, J. Gebhardt, J. Woodworth, and C.B. Paulk. 2021. Feed safety basics for veterinarians. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. MF3548.
 10. Jones, C.K., O.L. Harrison, C.B. Paulk, J.C. Woodworth, and J.T. Gebhardt. 2021. Feed biosecurity for swine producers. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. MF3547.
 11. Dahmer, P.L., O.L. Harrison, and C.K. Jones. 2021. Investigating potential additive effects of formic acid and glycerol monolaurate in nursery pig diets. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 12. Dahmer, P.L. and C.K. Jones. Evaluating dietary acidifiers as alternatives to conventional feed-based antibiotics in nursery pig diets. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 13. Dunmire, K.M., M.B. Braun, Y. Zhang, C.K. Jones, Y. Li, J.C. Woodworth, R.D. Goodband, M.D. Tokach, A.C. Fahrenholz, C.R. Stark, and C.B. Paulk. 2021. Effects of the pelleting process on diet formulations with varying levels of crystalline amino acids and reducing sugars on nursery pig growth performance. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 14. Elijah, C.G., C.K. Jones, C. Evans, H. Wecker, C.R. Stark, J. Bai, E.G. Poulsen-Porter, A.K. Blomme, J.C. Woodworth, C.B. Paulk, and J. T. Gebhardt. 2021. Quantification of semi-truck cab decontamination. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 15. Elijah, C.G., A.K. Blomme, O.L. Harrison, J. Bai, J.C. Woodworth, C.K. Jones, E.G. Poulsen-Porter, C.B. Paulk, and J.T. Gebhardt. 2021. Evaluating the impact of presence of organic matter on environmental samples and sample processing technique on RNA detection of PEDV. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 16. Blomme, A.K., J.T. Gebhardt, C.K. Jones, J.C. Woodworth, E. Poulsen-Porter, J. Bai, and C.B. Paulk. 2021. Effect of benzoic acid and essential oil blends on viral load in swine feed and vitamin premix. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 17. C.G. Elijah, G.E. Nichols, J.T. Gebhardt, C.K. Jones, J.C. Woodworth, S.S. Dritz, J. Bai, J.W. Anderson, E.G. Poulsen-Porter, A. Singrey, and C.B. Paulk. 2021. Feed mitigant

- efficacy for control of porcine epidemic diarrhea virus and porcine reproductive and respiratory syndrome virus when inoculated alone or together in feed. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
18. Blomme, A.K., C.K. Jones, J.T. Gebhardt, J.C. Woodworth, and C.B. Paulk. 2021. Assessment of soy-based imports into the US and associated foreign animal disease status. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 19. C.G. Elijah, J.D. Trujillo, C.K. Jones, T. Kwon, C.R. Stark, K.R. Cool, C.B. Paulk, N.N. Gaudreault, J.C. Woodworth, I. Morozov, C. Gallardo, J.T. Gebhardt, and J.A. Richt. 2021. Prevalence and distribution of African swine fever virus in swine feed after mixing and feed batch sequencing. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 20. Harrison, O.L., P.L. Dahmer, J.T. Gebhardt, C.B. Paulk, J.C. Woodworth, and C.K. Jones. 2021. Evaluation of biosecurity measures on a commercial swine operation using Glo Germ powder as a visible learning aid. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 21. Elijah, C.G., C.K. Jones, J.C. Woodworth, R. Palinski, C.B. Paulk, T. Petznick, and J.T. Gebhardt. 2021. Detection and investigation of Atypical Porcine Pestivirus within a breed-to-finish farm and off-site nursery and finisher locations. 2021 Kansas State University Swine Day. KS Agric. Exp. Stn. Res. 7:11.
 22. Saensukjaroenphon, M., C.E. Evans, C.K. Jones, C.R. Stark, and C.B. Paulk. 2021. The effect of different inclusion levels of corn starch and fine ground corn with different conditioning temperature or die thickness on pellet quality. 2021 Kansas State University Animal Feed and Pet Food Research Report. KS Agric. Exp. Stn. Res. 7:10.
 23. Nichols, G.E., H.K. Wekcer, C.E. Evans, C.K. Jones, C.R. Stark, and C.B. Paulk. 2021. The effects of medium chain fatty acids in mash and crumbled pellet diets on growth performance of broilers. 2021 Kansas State University Animal Feed and Pet Food Research Report. KS Agric. Exp. Stn. Res. 7:10.
 24. Dahmer, P.D. and C.K. Jones. 2020. Show lamb guide. MF3420.
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SERVICE

Department/College/University

- Department of Animal Sciences & Industry
 - Undergraduate Teaching Coordinator
 - Teaching & Advisory Committee Co-Chair
 - Department Committee on Planning Member
 - Search Committee Member for Assistant (2) or Assistant/Associate (5) Professors
 - Swine Club Advisor
 - Block & Bridle Club Advisor
- College of Agriculture
 - Course & Curriculum Committee
 - College Committee on Planning, ex officio member
 - Search Committee Member for Associate Dean for Academic Programs
- Kansas State University
 - Faculty Senate
 - Executive Committee Member
 - Leadership Council Member
 - Faculty Senate Committee on University Planning Co-Chair
 - Gamma Sigma Delta Member
 - President-Elect, President, and Past President
 - Office of Undergraduate Research & Creative Inquiry Advisory Board
 - Integrity in Research and Scholarly Activity Committee
 - 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 Committee Member for Pre-Professional Advising Center Director and Diagnostic Medicine/Pathobiology Swine Production Veterinarian Assistant Professor

Professional

- 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 regarding Hazard Analysis and Risk-Based Preventive Controls for Animal Food (both in-person and blended course)
 - Primary Author of training material for industry regarding Current Good Manufacturing Practice Requirements of the Preventive Controls for Animal Food Rule
- USDA Expert Elicitation: Imports of Non-Animal Origin Feed Ingredients Potentially Contaminated with African Swine Fever Virus
- Representative to USDA/FDA/State response planning for foreign animal disease entry

- American Feed Industry Association Nutrition Committee, previously on Regulatory Committee
- American Society of Animal Science Midwest Section Judge