

## Samuel J. Rochell, Ph.D.

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Associate Professor of Poultry Nutrition  
Department of Poultry Science | Auburn University

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### Education

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#### University of Illinois at Urbana-Champaign

Doctor of Philosophy in Animal Sciences 2015  
Dissertation: *Eimeria acervulina* infection and amino acid nutrition in broiler chickens

#### Auburn University

Master of Science in Poultry Science 2012  
Thesis: Effects of diet type and ingredient composition on rate of passage and use of in vitro assays to predict amino acid digestibility of animal protein meals in broilers

Bachelor of Science in Poultry Science 2009  
Minor in business, magna cum laude

### Professional Experience

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Associate Professor of Poultry Nutrition 2022-present  
Appointment: 70% research, 30% teaching  
Auburn University

Assistant and Associate Professor of Poultry Nutrition 2016-2022  
Appointment: 80% research, 20% teaching  
University of Arkansas

Graduate Research Assistant 2012-2015  
University of Illinois at Urbana-Champaign

Feed Milling and Nutrition Internship 2012  
Aviagen, Inc., Athens, AL

Graduate Research Assistant 2009-2012  
Auburn University

### Publications

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#### Peer-reviewed journal articles

*Underlined first authors are graduate students or researchers directed by SJR*

40. Teyssier, J. R., G. Brugaletta, F. Sirri, S. Dridi, **S. J. Rochell**. 2022. A review of heat stress in chickens. Part II: Insights into protein and energy utilization and feeding. Front. Physiol. 13:943612. <https://doi.org/10.3389/fphys.2022.943612>

39. Brugaletta, G., J. R. Teyssier, S. Dridi, **S. J. Rochell**, and F. Sirri. 2022. A review of heat stress in chickens. Part I: Insights into physiology and gut health. *Front. Physiol.* 13:934381. <https://doi.org/10.3389/fphys.2022.934381>
38. Lee, D. T., J. T. Lee, C. Ruan, and **S. J. Rochell**. 2022. Influencing of increasing glycine concentrations in reduced crude protein diets fed to broilers from 0 to 48 days. *Poult. Sci.* 101:102038. <https://doi.org/10.1016/j.psj.2022.102038>
37. Teyssier, J. R., A. Preynat, P. Cozannet, M. Briens, A. Mauromoustakos, E. S. Greene, C. M. Owens, S. Dridi, and **S. J. Rochell**. 2022. Constant and cyclic chronic heat stress models differentially influence growth performance, carcass traits and meat quality of broilers. *Poult. Sci.* 31:101963. <https://doi.org/10.1016/j.psj.2022.101963>
36. Lee, D. T., J. T. Lee, and **S. J. Rochell**. 2022. Evaluation of a threonine fermentation product as a digestible threonine source in broilers. *J. Appl. Poult. Res.* 31:100252. <https://doi.org/10.1016/j.japr.2022.100252>
35. Whitfield, H., C. Laundon, **S. J. Rochell**, S. Dridi, S. A. Lee, T. Dale, T. York, I. Kuehn, M. R. Bedford, and C. A. Brearley. 2022. Effect of phytase supplementation on plasma and organ myo-inositol content and erythrocyte inositol phosphates as pertaining to breast meat quality issues in chickens. *J. Appl. Anim. Nutr.* 10:45-47 <https://doi.org/10.3920/JAAN2021.0014>
34. Lee, D. T. and **S. J. Rochell**. 2022. Precision intestinal nutrition: knowledge and gaps regarding the role of amino acids during an enteric challenge. *Poult. Sci.* 101: 101674. <https://doi.org/10.1016/j.psj.2021.101674>
33. Ayres, V., M. E. Jackson, S. Cantley, **S. J. Rochell**, C. D. Crumpacker, D. T. Lee, B. C. Bodle, W. J. Pacheco, M. Rueda, C. A. Bailey, K. Gardner, T. P. Boltz, and J. S. Moritz. 2021. Multi-experiment evaluation of increasing phytase activity from Optiphos and Optiphos Plus on 21-d broiler performance and tibia mineralization. *J. Appl. Poult. Res.* 30:100210. <https://doi.org/10.1016/j.japr.2021.100210>
32. Mullenix, G. J., C. J. Maynard, C. M. Owens, **S. J. Rochell**, W. G. Bottje, R. D. Brister, and M. T. Kidd. 2021. *Spirulina platensis* meal inclusion effects on broilers fed a reduced protein diet. *J. Appl. Poult. Res.* 31: 100199. <https://doi.org/10.1016/j.japr.2021.100199>
31. Maynard, C. W., S. Y. Liu, J. T. Lee, J. V. Caldas, E. J. J. Diehl, **S. J. Rochell**, S. Dridi, and M. T. Kidd. 2021. Determination of digestible valine requirements in male and female Cobb 500 broilers. *Anim. Feed Sci. Technol.* 275:114847. <https://doi.org/10.1016/j.anifeedsci.2021.114847>
30. Deines, J. R., D. E. Yoho, F. Dustan Clark, R. K. Bramwell, and **S. J. Rochell**. 2021. Effects of hatch window and nutrient access in the hatcher on performance and processing yield of broiler chicks reared according to time of hatch. *Poult. Sci.* 100:101295. <https://doi.org/10.1016/j.psj.2021.101295>

29. Deines, J. R., F. D. Clark, D. E. Yoho, R. K. Bramwell, and **S. J. Rochell**. 2021. Effects of hatch window and nutrient access in the hatcher on performance and processing yields of broiler reared with equal hatch window representation. *Animals*. 11:1-11.  
<https://doi.org/10.3390/ani11051228>
28. Herrero-Encinas, J., D. Menoyo, M. Blanch, J. J. Pastor, and **S. J. Rochell**. 2020. Response of broiler chickens fed diets supplemented with a bioactive olive pomace extract from *Olea europaea* to an experimental coccidial vaccine challenge. *Poult. Sci.* 100:575-584.  
<https://doi.org/10.1016/j.psj.2020.11.027>
27. French, C. E., M. A. Sales, **S. J. Rochell**, A. Rodriguez, G. F. Erf. 2020. Local and systemic inflammatory responses to lipopolysaccharide in broilers: new insights using a two-window approach. *Poult. Sci.* 99:6593-6605. <https://doi.org/10.1016/j.psj.2020.09.078>
26. Maynard, C. W., S. Y. Liu, J. T. Lee, J. V. Caldas, J. J. E. Diehl, **S. J. Rochell**, and M. T. Kidd. 2020. Evaluation of branched-chain amino acids in male Cobb MV× 500 broiler chickens by using Box-Behnken response surface design. *Anim. Feed Sci. Technol.* 271:114710.  
<https://doi.org/10.1016/j.anifeedsci.2020.114710>
25. Maynard, C. W., S. Y. Liu, J. T. Lee, J. Caldas, E. J. J. Diehl, **S. J. Rochell**, and M. T. Kidd. 2020. Determining the 4th limiting amino acid in low crude protein diets for male and female Cobb MV× 500 broilers. *British Poult. Sci.* 61:695-702.  
<https://doi.org/10.1080/00071668.2020.1782348>
24. Butler, L. D., C. G. Scanes, **S. J. Rochell**, A. Mauromoustakos, J. V. Caldas, C. A. Keen, C. O. Hanning, and M. T. Kidd. 2020. Effect of pullet body weight and hen dietary amino acid treatments on their progeny fed high and low amino acid diets. *Poult. Sci.* 100:159-173.  
<https://doi.org/10.1016/j.psj.2020.08.035>
23. Lee, D. T., J. T. Lee, and **S. J. Rochell**. 2020. Influence of branched chain amino acid inclusion in diets varying in ingredient composition on broiler performance, processing yields, and pododermatitis and litter characteristics. *J. Appl. Poult. Res.* 29:712-729.  
<https://doi.org/10.1016/j.japr.2020.05.005>
22. Butler, L. D., C. G. Scanes, **S. J. Rochell**, A. Mauromoustakos, J. V. Caldas, C. A. Keen, C. W. Maynard, S. A. Bolden, R. D. Brister, P. A. Smith, R. E. Latham, C. M. Owens, and M. T. Kidd. 2020. Cobb 700 responses to increasing lysine by growth phase. *J. Appl. Poult. Res.* 29:479-488 <https://doi.org/10.1016/j.japr.2020.02.005>
21. Beer, L. C., J. D. Latorre, **S. J. Rochell**, X. Sun, G. Tellez, A. L. Fuller, B. M. Hargis, C. N. Vuong. 2020. Research Note: Evaluation of deoxycholic acid for antihistomonal activity. *Poult. Sci.* 99:3841-3486 <https://doi.org/10.1016/j.psj.2020.03.049>
20. Butler, L. D., C. G. Scanes, **S. J. Rochell**, A. Mauromoustakos, J. V. Caldas, C. A. Keen, C. M. Owens, and M. T. Kidd. 2020. Cobb MV × Cobb 700 broiler responses to eight varying levels of amino acid density with emphasis on digestible lysine. *J. Appl. Poult. Res.* 29:34-47  
<https://doi.org/10.1016/j.japr.2019.12.002>

19. Gautier, A. E. and **S. J. Rochell**. 2020. Influence of coccidiosis vaccination on nutrient utilization of corn, soybean meal, and distillers dried grains with solubles in broilers. *Poult. Sci.* 99:3,540-3,549. <https://doi.org/10.1016/j.psj.2020.03.035>
18. Gautier, A. E., J. D. Latorre, P. L. Matsler, and **S. J. Rochell**. 2020. Longitudinal characterization of coccidiosis control methods on live performance and nutrient utilization in broilers. *Front. Vet. Sci.* 6:468. <https://doi.org/10.3389/fvets.2019.00468>
17. Liu, S. Y., **S. J. Rochell**, C. W. Maynard, J. Caldas, and M. T. Kidd. 2019. Digestible lysine concentrations and amino acid densities influence growth performance and carcass traits in broiler chickens from 14 to 35 days post-hatch. *Anim. Feed Sci. Technol.* 255:114216. <https://doi.org/10.1016/j.anifeedsci.2019.114216>
16. Cloft, S. E., **S. J. Rochell**, K. S. Macklin, and W. A. Dozier. 2019b. Effects of dietary amino acid density and feed allocation during the starter period on 41 days of age growth performance and processing characteristics of broiler chickens given coccidiosis vaccination at hatch. *Poult. Sci.* 98:5005–5016. <https://doi.org/10.3382/ps/pez295>
15. Cloft, S. E., **S. J. Rochell**, K. S. Macklin, and W. A. Dozier. 2019a. Effects of pre-starter and starter diets varying in amino acid density given to broiler chickens that received coccidiosis vaccination at hatch. *Poult. Sci.* 98:4878–4888. <https://doi.org/10.3382/ps/pez236>
14. Greene, E., J. Flees, S. Dadgar, B. Mallmann, S. Orlowski, A. Dhamad, **S. J. Rochell**, M. T. Kidd, C. Laurendon, H. Whitfield, C. Brearley, N. Rajaram, C. Walk, and S. Dridi. 2019. Quantum blue reduces the severity of woody breast myopathy via modulation of oxygen homeostasis-related genes in broiler chickens. *Front. Physiol.* 10:1251. <https://doi.org/10.3389/fphys.2019.01251>
13. Maynard, C. W., R. E. Latham, R. Brister, C. M. Owens, and **S. J. Rochell**. 2020. Effects of dietary amino acid regimens on live performance and processing characteristics of Cobb MV × 700 male and female broilers. *J. Appl. Poult. Res.* 29:64-76. <https://doi.org/10.3382/japr/pfz028>
12. Maynard, C. W., R. E. Latham, R. Brister, C. M. Owens, and **S. J. Rochell**. 2019. Effects of dietary energy and amino acid density during finisher and withdrawal phases on live performance and carcass characteristics of Cobb MV × 700 broilers. *J. Appl. Poult. Res.* 28:729–742. <https://doi.org/10.3382/japr/pfz025>
11. **Rochell, S. J.** 2018. Formulation of broiler chicken diets using distillers dried grains with solubles. *Fermentation.* 4(3):64. <https://doi.org/10.3390/fermentation4030064>
10. Bortoluzzi, C., **S. J. Rochell**, and T. J. Applegate. 2018. Threonine, arginine, and glutamine: influences on intestinal physiology, immunology, and microbiology in broilers. *Poult. Sci.* 97:937-945. <https://doi.org/10.3382/ps/pex394>
9. **Rochell, S. J.**, A. Helmbrecht, C. M. Parsons, and R. N. Dilger. 2017. Interactive effects of dietary arginine and *Eimeria acervulina* infection on broiler growth performance and metabolism. *Poult. Sci.* 96:659-666. <https://doi.org/10.3382/ps/pew295>

8. **Rochell, S. J.**, J. L. Usry, T. M. Parr, C. M. Parsons, and R. N. Dilger. 2017. Effects of dietary copper and amino acid density on growth performance, apparent metabolizable energy and nutrient digestibility in *Eimeria acervulina*-challenged broilers. *Poult. Sci.* 96:602-610. <https://doi.org/10.3382/ps/pew276>
7. **Rochell, S. J.**, A. Helmbrecht, C. M. Parsons, and R. N. Dilger. 2016. Influence of dietary amino acid reductions and *Eimeria acervulina* infection on growth performance and intestinal cytokine responses of broilers fed low crude protein diets. *Poult. Sci.* 95:2602-2614. <https://doi.org/10.3382/ps/pew153>  
- *Selected as Editor's Choice*
6. **Rochell, S. J.**, C. M. Parsons, and R. N. Dilger. 2016. Effects of *Eimeria acervulina* infection severity on growth performance, apparent ileal amino acid digestibility, and plasma concentrations of amino acids, carotenoids, and  $\alpha$ 1-acid glycoprotein in broilers. *Poult. Sci.* 95:1573-1581. <https://doi.org/10.3382/ps/pew035>
5. **Rochell, S. J.**, L. S. Alexander, G. C. Rocha, W. G. Van Alstine, R. D. Boyd, J. E. Pettigrew, and R. N. Dilger. 2015. Effects of dietary soybean meal concentration on growth and immune responses of pigs infected with porcine reproductive and respiratory syndrome virus. *J. Anim. Sci.* 93(6):2987-2997. <https://doi.org/10.2527/jas.2014-8462>
4. dePersio, S., P. L. Utterback, C. W. Utterback, **S. J. Rochell**, N. O'Sullivan, K. Bregendahl, J. Arango, C. M. Parsons, and K. W. Koelkebeck. 2015. Effects of feeding diets varying in energy and nutrient density to Hy-Line W-36 laying hens on production performance and economics. *Poult. Sci.* 94:195-206. <https://doi.org/10.3382/ps/peu044>  
- *Selected as Editor's Choice*
3. **Rochell, S. J.**, D. L. Kuhlbers, and W. A. Dozier. 2013. Relationship between in vitro assays and standardized ileal amino acid digestibility of animal protein meals in broilers. *Poult. Sci.* 92:158-170. <https://doi.org/10.3382/ps.2012-02365>
2. **Rochell, S. J.**, T. J. Applegate, E. J. Kim, and W. A. Dozier. 2012. Effects of diet type and ingredient composition on rate of passage and apparent ileal amino acid digestibility in broiler chicks. *Poult. Sci.* 91:1647-1653. <https://doi.org/10.3382/ps.2012-02173>
1. **Rochell, S. J.**, B. J. Kerr, and W. A. Dozier. 2011. Energy determination of corn co-products fed to broiler chicks from 15 to 24 days of age and use of composition analysis to predict AME<sub>n</sub>. *Poult. Sci.* 90:1999-2007. <https://doi.org/10.3382/ps.2011-01468>

### **Proceedings**

7. Hampton, J., W. Li, F. Mussini, K. Hilton, J. Remus, and **S. J. Rochell**. 2022. Recent findings on phosphorus digestibility of feed ingredients in broilers. *Proc. of Arkansas Nutr. Conf.*, Rogers, AR
6. **Rochell, S. J.** 2020. Evaluating dietary nutrient and energy utilization in broilers facing enteric stress. *Proc. of Arkansas Nutr. Conf.*, Virtual.

5. Gautier, A. E. and **S. J. Rochell**. 2019. How do coccidiosis challenges influence lipid digestibility and energy utilization? Proc. of Midwest Poultry Federation Conv. Pre-Show Nutr. Symp., Minneapolis, MN.
4. Kidd, M. T., **S. J. Rochell**, S. Dridi, J. Bai, R. D. Brister, J. Caldas, and E. Diehl, 2017. Branched-chain amino acids: re-evaluating ideal amino acid ratios. Pages 293-303. Poultry Beyond 2023. Queenstown, New Zealand.
3. **Rochell, S. J.** 2017. The impact of enteric challenges on nutrient digestion and absorption. Proc. of Multi-State Poultry Meeting, Indianapolis, IN.
2. **Rochell, S. J.**, and R. N. Dilger 2016. Nutritional modulation of the immune response. Arkansas Nutr. Conf., Rogers, AR.
1. **Rochell, S. J.**, J. E. Pettigrew, and R. N. Dilger. 2014. Soybean meal and the immune response to PRRS virus. Proc. of Midwest Swine Nutr. Conf., Indianapolis, IN.

### **Refereed conference abstracts**

*Underlined first or presenting authors are graduate students or researchers directed by SJR*

67. McGovern, K., A. Duff, M. Trombetta, R. Whelan, N. Yacoubi, K. D. Teague, **S. J. Rochell**, and L. Bielke. 2022. Effect of poor-quality soybean meal on broiler performance. Poult. Sci. 101(E-Suppl. 1):105 (Abstr.)
66. Lee, D. T., J. T. Lee, R. Adhikari, C. M. Owens, and **S. J. Rochell**. 2022. Impact of the timing and duration of increased dietary arginine on growth performance and processing characteristics of coccidiosis vaccinated broilers. Poult. Sci. 101(E-Suppl. 1):93 (Abstr.)
65. **Teyssier, J. R.**, A. Preynat, P. Cozannet, M. Briens, E. Greene, **S. J. Rochell**, and Sami Dridi. 2022. Influence of chronic and acute heat stress exposure on whole blood gene expression of stress and inflammatory markers in broilers. Poult. Sci. 101(E-Suppl. 1):90 (Abstr.)
64. Lee, D. T., J. T. Lee, C. Ruan, **S. J. Rochell**. 2022. Responses of broilers to increasing dietary glycine when fed reduced or low crude protein diets from 0 to 48 days. Poult. Sci. 101(E-Suppl. 1):33 (Abstr.)
63. Parsons, B., K. D. Teague, K. Mitre, K. Herrick, M. Jolly Breithaupt, and **S. J. Rochell**. 2022. Validation of a previously determined nitrogen-corrected metabolizable energy value for distillers dried grains with solubles on more recently collected samples from 4 different biorefineries. Poult. Sci. 101(E-Suppl. 1):23 (Abstr.)
62. Teague, K. D., G. Tellez-Isaias, V. Petrone-Garcia, C.N. Vuong, A. Blanch, S. H. Rasmussen, K. Brown, and **S. J. Rochell**. 2021. Dietary soy oligosaccharides affect the gastrointestinal health and feed efficiency of growing chicks. Symp. on Gut Health in Food Prod. Anim. 128
61. Maynard, C. J., C. W. Maynard, A. Jackson, M. T. Kidd, **S. J. Rochell**, and C. M. Owens. 2021. Characterization of growth patterns and carcass characteristics of male and female broilers from four commercial strains fed low or high density diets. Poult. Sci. 100(E-Suppl. 1):357 (Abstr.)

60. Mueller, A. J., C. J. Maynard, A. Jackson, J. Caldas-Cueva, A. Giampietro-Ganeco, X. Sun, M. T. Kidd, **S. J. Rochell**, and C. M. Owens. 2021. Assessment of meat quality attributes of four commercial broiler strains processed at various market weights. *Poult. Sci.* 100(E-Suppl. 1):299 (Abstr.).
59. Maynard, C. J., A. Jackson, J. Caldas-Cueva, A. Mauromoustakos, M. T. Kidd, **S. J. Rochell**, and C. M. Owens. 2021. Quality attributes of standard and high breast yielding broilers raised for small and big bird debone markets. *Poult. Sci.* 100(E-Suppl. 1):298 (Abstr.).
58. Mullenix, G., C. W. Maynard, **S. J. Rochell**, W. G. Bottje, R. D. Brister, and M. T. Kidd. 2021. *Spirulina (Arthrospira) platensis* ingredient characterization and amino acid digestibility in male Cobb 500 broilers. *Poult. Sci.* 100(E-Suppl. 1):127 (Abstr.).
57. Ayres, V., M. E. Jackson, S. Cantley, **S. J. Rochell**, C. D. Crumpacker, D. T. Lee, B. C. Bodle, W. J. Pacheco, M. Rueda Lastres, C. A. Bailey, K. N. Gardner, T. Boltz, and J. Moritz. 2021. Multi-experiment evaluation of increasing phytase activity from Optiphos and Optiphos Plus on 21-d broiler performance and tibia mineralization. *Poult. Sci.* 100(E-Suppl. 1):147 (Abstr.).
56. Lee, D. T., J. Lee, and **S. J. Rochell**. 2021. Broilers administered a live coccidiosis vaccine or fed a chemical anticoccidial responded similarly to increased dietary amino acids contributed by soybean meal or feed-grade sources. *Poult. Sci.* 100(E-Suppl. 1):129 (Abstr.).
55. Teyssier, J. R., A. Preynat, P. Cozannet, E. S. Greene, S. Dridi, and **S. J. Rochell**. 2021. Effects of different heat stress models on ileal nutrient digestibility and molecular markers of protein metabolism. *Poult. Sci.* 100(E-Suppl. 1):127 (Abstr.).
54. Barros, T. L., C. Vuong, E. McGill, **S. J. Rochell**, G. Tellez-Isaias, and B. M. Hargis. 2021. Horizontal transmission of histomoniasis may be influenced by feed composition and strains of *Histomonas meleagridis*. *Poult. Sci.* 100(E-Suppl. 1):76 (Abstr.).
53. Bodle, B., C. Crumpacker, D. T. Lee, M. Jackson, and **S. J. Rochell**. 2020. Comparison of an intrinsically heat stable and a coated phytase on growth performance and tibia characteristics of broiler chicks. *Poult. Sci.* 99(E-Suppl. 1):72 (Abstr.).
52. Teyssier, J. R., A. Preynat, M. Briens, S. Dridi, and **S. J. Rochell**. 2020. Constant and cyclic chronic heat stress models differentially influence growth performance and carcass traits of broilers. *Poult. Sci.* 99(E-Suppl. 1):35 (Abstr.).
51. Maynard, C. W., S. Liu, J. Lee, J. Caldas, E. Diehl, **S. J. Rochell**, and M. T. Kidd. 2020. Implementation of Box-Behken design to evaluate potential dietary interactions among the branched-chain amino acids. *Poult. Sci.* 99(E-Suppl. 1):31 (Abstr.).
50. Bodle, B., S. Vaessen, J. Broomhead, S. Dridi, and **S. J. Rochell**. 2020. Evaluation of tributyrin supplementation in diets varying in lipid source and corn particle size on live performance and nutrient utilization in broilers reared to 21 d. *Poult. Sci.* 99(E-Suppl. 1):30 (Abstr.).

49. Teague, K. D., L. E. Graham, B. Graham, B. Hargis, and **S. J. Rochell**. 2020. In vivo evaluation of Bacillus isolates selected based on qualitative in vitro enzyme activity against soybean meal carbohydrates as direct-fed microbial candidates for broiler chickens. Poult. Sci. 99(E-Suppl. 1):27 (Abstr.)
48. Graham, L. E., K. Teague, B. Graham, **S. J. Rochell**, and B. M. Hargis. 2020. Isolation and selection of Bacillus spp. as candidate direct fed microbials based on qualitative in vitro enzymatic hydrolysis of indigestible non-starch polysaccharides and oligosaccharides found in soybean meal. Poult. Sci. 99(E-Suppl. 1):26 (Abstr.).
47. Lee, D. T., J. Lee, and **S. J. Rochell**. 2020. Evaluation of a threonine fermentation product as a source of digestible threonine in broilers. Poult. Sci. 99(E-Suppl. 1):23 (Abstr.).
46. Maynard, C. W., S. Liu, J. Lee, J. Caldas, E. Diehl, **S. J. Rochell**, M. T. Kidd. 2020. Determination of dietary digestible valine:lysine ratio for Cobb MV × 500 male and female broilers from 15 to 35 d of age. Poult. Sci. 99(E-Suppl. 1):23 (Abstr.)
45. Mitre, K., K. Herrick, and **S. J. Rochell**. 2020. Apparent metabolizable energy content of 11 sources of distillers dried grains with solubles determined in broiler chickens at 3 weeks of age. Poult. Sci. 99(E-Suppl. 1):19 (Abstr.)
44. Herrero-Encina, J., D. Menoyo, M. Blanch, J. Pastor, and **S. J. Rochell**. 2019. Effect of two bioactive Olea europaea extracts in broiler chickens challenged with Eimeria spp vaccine. Proc. of 22<sup>nd</sup> Eur. Symp. Poult. Nutr. (Abstr.)
43. Greene, E., J. Flees, S. Dadgar, B. Mallmann, S. Orłowski, N. Rajaram, **S. J. Rochell**, M. Kidd, C. Brearley, C. Walk, S. Dridi, and H. Whitfield. 2019. Quantum blue reduces the severity of woody breast myopathy via modulation of oxygen homeostasis-related genes in broiler chickens. Poult. Sci. 98(E-Suppl. 1):133 (Abstr.)
42. Gautier, A. E. and **S. J. Rochell**. 2019. Influence of coccidiosis vaccination and starter diet lipid concentration on nutrient and energy digestibility, and broiler growth performance and processing characteristics. Poult. Sci. 98(E-Suppl. 1):77 (Abstr.)  
- *Aly Gautier awarded Certificate of Excellence for oral presentation*
41. Maynard, C. W., S. Liu, J. Lee, J. Caldas-Cuevas, E. Diehl, **S. J. Rochell**, and M. T. Kidd,. 2019. Determination of the 4th limiting amino acid for male and female Cobb MV × 500 broilers from 15 to 35 d in low crude protein vegetable based diets Poult. Sci. 98(E-Suppl. 1):72 (Abstr.)
40. Lee, D. T., J. Lee, and **S. J. Rochell**. 2019. Influence of branched chain amino acid inclusion in diets varying in ingredient composition on broiler performance, processing yields, and paw quality and litter characteristics. Poult. Sci. 98(E-Suppl. 1):72 (Abstr.)  
- *Trevor Lee awarded Certificate of Excellence for oral presentation*
39. Barros, T. L., L. Beer, C. Vuong, **S. J. Rochell**, G. Tellez, and B. M. Hargis. 2019. Evaluation of dietary administration of sodium chlorate, sodium nitrate, arginine, or a combination of dietary lactose with lactic acid bacterial gavage, for Histomonas meleagridis prophylaxis in poults. Poult. Sci. 98(E-Suppl. 1):61 (Abstr.)



38. Mitre, K., K. Herrick, and **S. J. Rochell**. 2019. Effect of dietary inclusion level on the metabolizable energy content of distillers dried grains with solubles determined in broiler chicks at 21 d of age. *Poult. Sci.* 98(E-Suppl. 1):28 (Abstr.)
37. Bodle, B., S. Vaessen, S. Dridi, and **S. J. Rochell**. 2019. Evaluation of tributryin in diets varying in lipid source and concentration on broiler live performance and nutrient utilization. *Poult. Sci.* 98(E-Suppl. 1):1 (Abstr.)
36. Butler, L., A. Mauromoustakas, C. Keen, C. Scanes, J. Caldas, C. Maynard, **S. J. Rochell**, R. Brister, P. Smith, S. Bolden, R. Latham, and M. T. Kidd. 2019. Cobb 700 body weight and feed conversion response to increasing digestible lysine by growth phase. *Poult. Sci.* 98(E-Suppl. 1):108 (Abstr.)
35. Butler, L., C. Keen, J. Caldas, A. Mauromoustakas, **S. J. Rochell**, C. Scanes, and M. T. Kidd. 2019. Digestible lysine requirements during the starter phase for Cobb MVM x Cobb 700 broiler chickens. *Poult. Sci.* 98(E-Suppl. 1):107 (Abstr.)
34. Beer, L., C. Vuong, J. D. Latorre, **S. J. Rochell**, X. Sun, G. Tellez, and B. M. Hargis. 2019. Evaluation of deoxycholic acid as a prophylactic treatment to prevent Histomoniasis in turkeys. *Poult. Sci.* 98(E-Suppl. 1):68 (Abstr.)
33. Liu, S., C. Maynard, **S. J. Rochell**, J. Caldas, and M. Kidd. 2019. Digestible lysine responses of broiler chickens on growth performance and carcass traits from 14 to 35 days post-hatch. *Poult. Sci.* 98(E-Suppl. 1):53 (Abstr.)
32. Butler, L., A. Mauromoustakos, C. Keen, C. Scanes, J. Caldas, M. T. Kidd, and **S. J. Rochell**. 2019. Responses of Cobb 700 broiler chickens to eight levels of digestible lysine. *Poult. Sci.* 98(E-Suppl. 1):30 (Abstr.)
31. Deines, J., R. K. Bramwell, D. Yoho, and **S. J. Rochell**. 2019. Effects of hatch basket feed and water access and hatch window on broiler performance and processing yield. *Poult. Sci.* 98(E-Suppl. 1):20 (Abstr.)
30. Herrera, K., B. Bodle, F. Mussini, C. Williams, and **S. J. Rochell**. 2019. Supplementation of betaine in diets adequate in choline and methionine improves breast meat yield of broilers under varying experimental conditions. *Poult. Sci.* 98(E-Suppl. 1):20 (Abstr.)
29. Gautier, A. E. and **S. J. Rochell**. 2019. Influence of coccidiosis vaccination on nutrient digestibility of feed ingredients in broilers. *Poult. Sci.* 98(E-Suppl. 1):20 (Abstr.)
28. Bong, T. L. Reber, S. Orłowski, N. Anthony, **S. J. Rochell**, and D. Koltes. 2018. The impact of age and selection on intestinal morphology at 14 and 42 days of age in broilers and layers. *Poult. Sci.* 97(E-Suppl. 1):222 (Abstr.)
27. Butler, L. C., Scanes, **S. J. Rochell**, S. Bolden, A. Mauromoustakos, J. Caldas, C. Keen, and M. Kidd. 2018. Amino acid requirements of high yield broiler breeders to 40 weeks of age reared on high and low weight profiles. *Poult. Sci.* 97(E-Suppl. 1):102 (Abstr.)
26. West, S. P. and **S. J. Rochell**. 2018. Influence of basal diet type on regression-based metabolizable energy values of dextrose determined using index and total collection methods.

Poult. Sci. 97(E-Suppl. 1):95 (Abstr.). **S. Rochell invited as 1 of 20 speakers for special inaugural PSA session “4-Minute Abstract Forum: A Showcase for the Future?”**

25. Bodle, B., M. Jackson, and **S. J. Rochell**. 2018. Efficacy of carbohydrase enzymes in diets varying in ingredient composition when fed to coccidiosis-vaccinated broilers. Poult. Sci. 97(E-Suppl. 1):57 (Abstr.)  
**- B. Bodle awarded Certificate of Excellence for oral presentation**
24. Cloft, S., **S. J. Rochell**, K. Macklin, and W. A. Dozier, III. 2018. Effects of pre-starter diets varying in amino acid density given to broilers that received coccidiosis vaccination at hatch. Poult. Sci. 97(E-Suppl. 1):53 (Abstr.)
23. Gautier, A., C. Ruan, B. Kerr, K. Vignale-Pollock, B. Kremer, and C. Owens, and **S. Rochell**. 2018. Influence of soybean oil thermally-processed in the absence or presence of a liquid antioxidant when fed to broilers with or without an in-feed antioxidant. Poult. Sci. 97(E-Suppl. 1):48 (Abstr.)
22. Flees, J., C. Coy, E. Greene, N. Anthony, **S. Rochell**, M. Kidd, C. Walk, S. Velleman, and S. Dridi. Quantum Blue supplementation reduces the severity of woody breast myopathy in broiler chickens. Poult. Sci. 97(E-Suppl. 1):28 (Abstr.)
21. Maynard, C. W., R. Latham, R. Brister, C. Owens, and **S. J. Rochell**. 2018. Effects of dietary energy and amino acid density on live performance and carcass characteristics of male and female Cobb MV × 700 broilers. Poult. Sci. 97(E-Suppl. 1):6 (Abstr.)
20. Deines, J., D Yoho, R. Bramwell, and **S. J. Rochell**. 2018. Effects of egg storage temperature on pheasant and quail production. Poult. Sci. 97(E-Suppl. 1):31 (Abstr.)  
**- J. Deines awarded Certificate of Excellence for oral presentation**
19. Gautier, A. E., J. D. Latorre, P. Matsler, and **S. J. Rochell**. 2018. Longitudinal characterization of coccidiosis control methods on nutrient utilization, oocyst excretion, and plasma carotenoid concentrations in male broilers. Poult. Sci. 97(E-Suppl. 1):29 (Abstr.)
18. West, S. P. and **S. J. Rochell**. 2018. Influence of basal diet type on metabolizable energy values of an expeller-extruded soybean meal determined in broiler chicks using the regression method. Poult. Sci. 97(E-Suppl. 1):29 (Abstr.)
17. Maynard, C. W., R. Latham, R. Brister, C. Owens, and **S. J. Rochell**. 2018. Effects of dietary amino acid regimens on live performance and processing characteristics of Cobb MV × 700 male and female broilers. Poult. Sci. 97(E-Suppl. 1):17 (Abstr.)  
**- C. Maynard awarded Certificate of Excellence for oral presentation**
16. Cloft, S., **S. J. Rochell**, K. Macklin, and W. A. Dozier, III. 2018. Effects of dietary amino acid density and feed allocation during the starter period on 41 d growth performance and processing characteristics of broiler chickens given coccidiosis vaccination at hatch. Poult. Sci. 97(E-Suppl. 1):16 (Abstr.)
15. Maynard, C. W., R. Latham, R. Brister, C. Owens, and **S. J. Rochell**. 2017. Dietary amino acid responses of male Cobb MV × 700 broilers from 0 to 46 d post-hatch. Poult. Sci. 96(E-Suppl. 1):151 (Abstr.) - **C. Maynard awarded Certificate of Excellence for poster presentation**

14. Orłowski, S., N. Anthony, **S. J. Rochell**, D. A. Koltes 2017. Changes in intestinal length and jejunal integrity between broiler and layer chickens. *Poult. Sci.* 96(E-Suppl. 1):202 (Abstr.)
13. Mallmann, B. A., X. Sun, C. M. Owens, **S. J. Rochell**, J. Caldas, and M. T. Kidd. 2017. Performance and meat quality of Cobb MX × 500 male and female broilers as affected by amino acid density. *Poult. Sci.* 96(E-Suppl. 1):317 (Abstr.)
12. **Rochell, S. J.** 2017. Influence of reducing dietary protein concentration in the starter phase via two formulation methods on subsequent performance and processing characteristics of male Cobb 500 broilers. *Poult. Sci.* 96(E-Suppl. 1):282 (Abstr.)
11. **Rochell, S. J.**, C. M. Parsons, and R. N. Dilger. 2015. Influence of dietary amino acid reductions on the response of chicks to an *Eimeria acervulina* infection. *Poult. Sci.* 94(E-Suppl. 1):240 (Abstr.)
10. **Rochell, S. J.**, A. Helmbrecht, J. E. Thomson, T. M. Parr, J. L. Usry, C. M. Parsons, and R. N. Dilger. 2015. *Eimeria acervulina* infection decreases growth, plasma carotenoids, and apparent ileal amino acid digestibility in broiler chicks. *Poult. Sci.* 94(Suppl. 1):52 (Abstr.)
9. **Rochell, S. J.**, T. M. Parr, J. L. Usry, C. M. Parsons, and R. N. Dilger. 2015. Effects of dietary amino acid density and tribasic copper chloride supplementation in *Eimeria acervulina*-infected chicks. *Poult. Sci.* 94(Suppl. 1):31 (Abstr.)
8. **Rochell, S. J.**, L. S. Alexander, R. D. Boyd, W. G. Van Alstine, J. E. Pettigrew, and R. N. Dilger. 2014. Effects of dietary soybean meal concentration on growth performance and immune response of pigs during a porcine reproductive and respiratory syndrome virus challenge. *J. Anim. Sci.* 92 (Suppl. 2):165 (Abstr.)
7. Spangler, H. L., P. L. Utterback, **S. J. Rochell**, C. K. Parr, D. Hilgendorf, C. W. Utterback, C. M. Parsons, Z. Jiang, and P.B. Tillman. 2014. Determining the digestible lysine requirement of 22 to 47 week-old, Lohmann laying hens using two requirement titration methodologies. *Poult. Sci.* 93(Suppl. 1):13 (Abstr.)
6. Clark, D. I., D. L. Clark, **S. J. Rochell**, R. N. Dilger, R. W. Johnson, and A. C. Dilger. 2014. Effects of maternal and postnatal infection with porcine reproductive and respiratory syndrome virus on muscle growth and development in piglets. *FASEB J.* 28(Suppl. 1):731.10 (Abstr.)
5. **Rochell, S. J.**, E. L. Wils-Plotz, M. R. Panasevich, L. A. Merriman, and R. N. Dilger. 2013. Effects of supplemental dietary amino acids on broiler performance and immune responsiveness during an acute *Eimeria acervulina* challenge. *Poult. Sci.* 92(Suppl. 1):73 (Abstr.)
4. **Rochell, S. J.**, P. L. Utterback, H. L. Spangler, C. K. Parr, T. M. Parr, and C. M. Parsons. 2013. Bioavailability of commercial zinc sources in growing chicks. *Poult. Sci.* 92(Suppl. 1):151 (Abstr.)
3. **Rochell, S. J.** and W. A. Dozier. 2012. Relationship between in vitro assays and standardized ileal amino acid digestibility of animal protein meals in broilers. *Poult. Sci.* 91(Suppl. 1):38 (Abstr.)

2. **Rochell, S. J.,** T. J. Applegate, E. J. Kim, W. A. Dozier. 2011. Effects of ingredient composition on rate of passage in broiler chicks. *Poult. Sci.* 90(Suppl. 1):58 (Abstr.).
1. **Rochell, S. J.,** B. J. Kerr, W. A. Dozier. 2010. Energy determination of corn co-products fed to broiler chicks from fifteen to twenty-four days of age and use of composition analysis to predict AMEn. *Poult. Sci.* 89(Suppl. 1):556 (Abstr.).

## **Invited Presentations**

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44. **Rochell, S. J.** July 13<sup>th</sup>, 2022. Understanding amino acid functionality to advance precision nutrition and sustainability goals in poultry production. Poultry Science Association Annual Meeting (Symposium), San Antonio, TX.
43. **Rochell, S. J.** April 7<sup>th</sup>, 2022. Optimizing vegetable-based diets for broiler health and performance. AFGA Nutrition Seminar, Huntsville, AL.
42. **Rochell, S. J.** Nov. 11<sup>th</sup>, 2021. Opportunities for organic trace minerals in poultry feeds. USSEC 1<sup>st</sup> SEC Maghreb Virtual Poultry Nutrition Conference.
41. **Rochell, S. J.** Oct. 26<sup>th</sup>, 2021. Optimizing the use of alternative raw materials in successful feed formulations. 8<sup>th</sup> CJ Animal Nutrition Forum webinar hosted by WattAg.
40. **Rochell, S. J.** Sept. 22<sup>nd</sup>, 2021. Reviewing the use of organic trace minerals in poultry feeds. 82<sup>nd</sup> Minnesota Nutrition Conference, Mankato, MN.
39. **Rochell, S. J.** July 22<sup>nd</sup>, 2021. Intestinal nutrition during challenge scenarios: knowledge and gaps regarding the role of amino acids. Poultry Science Association Virtual Meeting Symposium Presentation
38. **Rochell, S. J.** July 22<sup>nd</sup>, 2021. Impact of diet on water efficiency in broiler production. Poultry Science Association Virtual Meeting Symposium Presentation
37. **Rochell, S. J.** June 2<sup>nd</sup>, 2021. Formulation of broiler chicken diets using distillers dried grains with solubles. U.S. Grains Council Middle East Poultry Industry Virtual Training Course
36. **Rochell, S. J.** June 1<sup>st</sup>, 2021. Importance of amino acids and metabolizable energy in poultry nutrition. U.S. Grains Council Middle East Poultry Industry Virtual Training Course
35. **Rochell, S. J.** February 25<sup>th</sup>, 2021. Early nutrition for broilers: evaluating the effects of feed access in the hatcher. 8<sup>th</sup> US Soybean Export Council Virtual Poultry Roundtable for the Feed Industry in Maghreb
34. **Rochell, S. J.** February 25<sup>th</sup>, 2021. Understanding the relationship between soybean meal carbohydrates and nutrient utilization in broilers. 8<sup>th</sup> US Soybean Export Council Virtual Poultry Roundtable for the Feed Industry in Maghreb
33. **Rochell, S. J.** January 19<sup>th</sup>, 2021. Production of animal source protein by nonruminants. Virtual meeting of the PRICE (Protein in a Changing Environment) interdisciplinary working group.
32. **Rochell, S. J.** Nov. 5<sup>th</sup>, 2020. DDGS in Poultry: Considerations for current feeding approaches. World Ethanol Forum, global audience

31. **Rochell, S. J.** Sept. 2<sup>nd</sup>, 2020. Evaluating dietary nutrient and energy utilization in broilers facing enteric stress. Arkansas Nutrition Conference, global audience
30. **Rochell, S. J.** Oct. 14<sup>th</sup>, 2020. DDGS in Poultry: Considerations for current feeding approaches. U.S. Grains Council Virtual Grain Exchange, global audience
29. **Rochell, S. J.** July 20<sup>th</sup>, 2020. From the Field to the Lab – Modeling the nutritional impacts of enteric stress. Poultry Science Association Virtual Meeting.
28. **Rochell, S. J.** July 5<sup>th</sup> and 9<sup>th</sup>, 2020. Determining relative nutrient value for DDGS in poultry rations. U.S. Grains Council Virtual Roundtable, Virtual Audience from Southeast Asia and China
27. **Rochell, S. J.** June 30<sup>th</sup>, 2020. Nutritional strategies for optimizing gut health in broilers. US Soybean Export Council Poultry Nutrition Virtual Conference
26. **Rochell, S. J.** June 30<sup>th</sup>, 2020. Realizing the value of soybean meal for broilers. US Soybean Export Council Poultry Nutrition Poultry Nutrition Virtual Conference
25. **Rochell, S. J.** June 30<sup>th</sup>, 2020. Evaluating feed ingredients for amino acid and energy availability. US Soybean Export Council Poultry Nutrition Virtual Conference
24. **Rochell, S. J.** Mar. 5<sup>th</sup>, 2020. Soybean meal: Considerations for feeding broilers faced with enteric challenges. Hamlet Protein Poultry Roundtable, Charleston, SC
23. **Rochell, S. J.** Jan. 16<sup>th</sup>, 2020. Betaine in poultry and swine nutrition. Micronutrients Technical Seminar, Orlando, FL
22. **Rochell, S. J.** Nov. 7<sup>th</sup>, 2019. Betaine: Overview and research updates. Micronutrients Technical Seminar, Asheville, NC
21. **Rochell, S. J.** July 4<sup>th</sup>, 2019. Nutrition and health interactions during coccidiosis challenges and vaccination. Huvepharma Technical Seminar, Kuala Lumpur, Malaysia
20. **Rochell, S. J.** June 7<sup>th</sup>, 2019. Nutrition and gastrointestinal health in broilers. US Soybean Export Council Poultry Nutrition and Feeding Seminar, Gdansk, Poland
19. **Rochell, S. J.** June 6<sup>th</sup>, 2019. Dietary energy responses of modern broilers. US Soybean Export Council Poultry Nutrition and Feeding Seminar, Gdansk, Poland
18. **Rochell, S. J.** June 6<sup>th</sup>, 2019. Ingredient evaluation for amino acid and energy utilization. US Soybean Export Council Poultry Nutrition and Feeding Seminar, Gdansk, Poland
17. **Rochell, S. J.** Apr. 9<sup>th</sup>, 2019. Coccidiosis vaccination and nutrient utilization. Webinar for DuPont technical services personnel in India and Southeast Asia
16. **Rochell, S. J.** Mar. 12<sup>th</sup>, 2019. How do coccidiosis challenges influence lipid digestibility and energy utilization? Midwest Poult. Federation Conv. Pre-Show Nutr. Symp., Minneapolis, MN.
15. **Rochell, S. J.** Feb. 28<sup>th</sup>, 2019. Three years as an assistant professor: discoveries in poultry nutrition and career management. University of Illinois at Urbana-Champaign Department of Animal Sciences Seminar Series, Urbana, IL

14. **Rochell, S. J.** Feb. 5<sup>th</sup>, 2019. Feeding DDGS to poultry. International webinar hosted by POET Nutrition
13. **Rochell, S. J.** Jan. 16<sup>th</sup>, 2019. Nutritional interactions with coccidiosis. DuPont and Pilgrim's Pride Technical Seminar, Guntersville, AL
12. **Rochell, S. J.** Dec. 13<sup>th</sup>, 2018. Opportunities for feed additives to impact poultry health and performance. Feed Additives Americas, Miami, FL.
11. **Rochell, S. J.** Oct. 25<sup>th</sup>, 2018. Nutritional approaches to coccidiosis. Dupont Rising Poultry Nutritionist's Roundtable, San Francisco, CA.
10. **Rochell, S. J.** Sept. 24<sup>th</sup>, 2018. Feed efficiency in broilers and the role of high quality soy protein. WISSH/ASA "Feed Senegal" USDA Emerging Markets Program, Dakar, Senegal.
9. **Rochell, S. J.** August 8<sup>th</sup>, 2018. Poultry nutrition and use of soybean meal in broiler feeds. US Soybean Export Council Regional Nutrition and Modern Poultry Housing Management Workshop, Kuala Lumpur, Malaysia via Skype.
8. **Rochell, S. J.** August 2<sup>nd</sup>, 2018. Nutritional impacts on woody breast with an emphasis on amino acids. Poultry Leaders of Tomorrow hosted by Adisseo, Fayetteville, AR.
7. West, S. P. and **S. J. Rochell.** 2018. Influence of basal diet type on regression-based metabolizable energy values of dextrose determined using index and total collection methods. Symposium - 4-Minute Abstract Forum: A Showcase for the Future?, Poultry Science Association Annual Meeting, San Antonio, TX.
6. **Rochell, S. J.** April 11<sup>th</sup>, 2018. The impact of dietary factors on the control of necrotic enteritis. Mid-Atlantic Nutrition Conference, Hunt Valley, MD.
5. **Rochell, S. J.** September 26<sup>th</sup>, 2017. Impact of dietary factors on the control of necrotic enteritis. Delmarva Poultry Industry Nat. Meeting on Poultry Health, Processing, and Live Production, Salisbury, MD.
4. **Rochell, S. J.** May 23<sup>rd</sup> and 24<sup>th</sup>, 2017. Impact of enteric disease on nutrient digestion and absorption. Multi-State Poultry Nutrition Conference, Indianapolis, IN.
3. **Rochell, S. J.** May 22<sup>nd</sup>, 2017. Impact of dietary factors on the control of necrotic enteritis. Merck Poultry Health Summit, New Orleans, LA.
2. **Rochell, S. J.** May 18<sup>th</sup>, 2017. Impact of distillers grains on poultry performance. 21<sup>st</sup> Ann. Distillers Grains Technology Council Symposium, Indianapolis, IN.
1. **Rochell, S. J.** Jan. 13<sup>th</sup>, 2017. Poultry Nutrition – considerations for coccidiosis-vaccinated broilers. Merck Animal Health National Sales Meeting, Jacksonville, FL.

## **Honors and Awards**

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Early Career Recognition of Professional Excellence, University of Arkansas Division of Agriculture Experiment Station	2022
Finalist (1 of 3) for Dr. John and Mrs. Lois Imhoff Award for Outstanding Teaching and Student Mentorship – University of Arkansas Teaching Academy	2021
UIUC Department of Animal Sciences Graduate Student Fellowship Award	2014
Poultry Science Association Certificate of Excellence	2013
Jones-Hamilton Co. Graduate Student Travel Grant	2013
Poultry Science Association Alltech Student Manuscript Award	2012
Poultry Science Association Certificate of Excellence	2010

## **Teaching**

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### **University of Arkansas**

POUL 5050/6050. Poultry Feeding. 3 hours. Fall 2022.

Catalog description: The application of the principles of nutrition to poultry; the functions of individual nutrients, their deficiency symptoms and their supply in terms of feedstuffs and practical poultry diets.

### **University of Arkansas**

POSC 1003(current)/410V/1002. Introduction to Poultry Science. 3 hours. Fall 2017, 2018, 2019, 2020, 2021. Catalog description: To introduce students to the career opportunities in the poultry science industry.

POSC 4343/5343. Poultry Nutrition. 3 hours. Spring 2017, 2018, 2019, 2020, 2021, 2022

Catalog description: Principles of nutrition as applied to the formulation of practical chicken and turkey rations.

POSC 400V. Special Problems. 1 hour. Fall 2016, 2019; Spring 2019, 2021

Catalog description: Special problems in the poultry sciences for advanced students.

## **Service**

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### **Professional Memberships**

Poultry Science Association, member	2009-present
World's Poultry Science Association, member	2009-present

### **Professional Service**

Section Editor (Nutrition), <i>Journal of Applied Poultry Research</i>	2021-present
Poultry Science Association Annual Meeting	
Moderator - Metabolism and Nutrition	2022
Member, Industry Committee for Poultry Science	2019-present
Moderator - Metabolism and Nutrition	2019
Chair - Metabolism and Nutrition section	2018
Moderator - Metabolism and Nutrition	2018

Co-chair - Metabolism and Nutrition section Co-chair	2017
Moderator - Metabolism and Nutrition	2016
Abstract reviewer (Cellular and Molecular Biology)	2016
<b>International Poultry Scientific Forum</b>	
Moderator - Metabolism and Nutrition	2018
Judge for student competition	2017
<b>Arkansas Nutrition Conference</b>	
Proceedings of the Arkansas Nutrition Conference, Editor	2020-present
Chair of planning committee	2018
Vice-chair of planning committee	2017
Planning committee	2016-present
<b>USDA-NIFA AFRI Proposal Review Panel</b>	2021
<b>Ad-hoc manuscript reviewer</b>	
<i>Animals, Animal Feed Science and Technology, Animal Frontiers, Animal Nutrition, Annals of the Brazilian Academy of Sciences, British Journal of Nutrition, British Poultry Science, Canadian Journal of Animal Science, Frontiers in Physiology, Frontiers in Veterinary Science, Journal of Animal Science, Journal of Animal Science and Biotechnology, Journal of Applied Poultry Research, Livestock Science, PeerJ, PlosOne, Poultry Science, and Scientific Reports</i>	
<b>Institutional Service</b>	
<b>Auburn University Department of Poultry Science</b>	
Recruiting committee, member	2022-present
Research farm committee	2022-present
<b>UofA Division of Agriculture</b>	
Institutional Animal Care and Use Committee, member	2019-2022
<b>UofA Bumpers College of Agriculture</b>	
Faculty Council, member	2019-2022
College Awards Committee, member	2016-2021
Bumpers Career Champions	2019-2022
<b>UofA Department of Poultry Science</b>	
Chair of Parasitology and Intestinal Health Faculty Search Committee	2021
Chair of Poultry Research Complex Committee	2020-2022
Faculty Director, Central Analytical Laboratory	2019-2022
Scholarship Committee, member	2020-2022
Department Head Search Committee, member	2019
Recruitment and Retention Committee, member	2017-2022
Curriculum Committee, member	2017-2022