

## CURRICULUM VITAE

### 1. CONTACT INFORMATION

**Name** Wilmer Javier Pacheco, M.S., Ph.D.  
**Title** Extension Specialist and Associate Professor  
**University** Department of Poultry Science, Auburn University  
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### 2. PROFESSIONAL PROFILE

Extension specialist and poultry nutrition researcher with extensive experience in feed manufacturing, poultry nutrition, and local, regional, and international workforce development. Currently serving as Associate Professor and Extension Specialist at Auburn University (40% research, 45% extension, 15% teaching appointment). Recognized for developing global training programs in feed manufacturing and poultry production, delivering more than 300 invited presentations in 27 countries and training over 20,000 professionals across the feed and poultry industries.

### 3. PROFESSIONAL EXPERIENCE

2021-present Extension Specialist and Associate Professor, Department of Poultry Science, Auburn University, Auburn AL.

2015-2021 Extension Specialist and Assistant Professor, Dept. of Poultry Science, Auburn University, Auburn AL.

2006-2009 Feed mill supervisor, East Coast Division, Murphy Brown LLC. Responsibilities included: Oversee the production of approximately 10,000 tons of feed per week. Employee training on feed mill operations, quality control of ingredients and finished feeds, safety, and environmental protection.

### 4. EDUCATIONAL BACKGROUND

PhD. (2014), Nutrition and Physiology NC State University, USA

MS (2011), Poultry Science, NC State University, USA

BS (2005), Food Science, Pan-American School of Agriculture, Honduras

### 5. LEADERSHIP AND ADMINISTRATIVE EXPERIENCE

#### a. Poultry Extension Team Lead

- i. Coordinate and lead the departmental Poultry Extension Team, organizing monthly meetings to align extension priorities and collaborative programing.
- ii. Develop and oversee team-based extension initiatives, including the Commercial Poultry Production Workshop, providing applied training for poultry industry professionals.
- iii. Lead the development of webinars and digital extension programs to expand the reach of educational activities to national and international audiences.

- b. **Organize Feed Mill Workshops (2016 – present).**
  - i. Lead the organization and delivery of intensive feed milling workshop for feed industry professionals, nutritionists, and allied industries personnel.
  - ii. Develop training curriculum, coordinate instructors, manage logistics, and deliver technical lectures covering feed manufacturing, ingredient and feed quality, and poultry nutrition.
  - iii. Workshops attract participants for multiple states, representing feed mills collectively producing over 200,000 tons of feed per week.
  - iv. These workshops emphasize practical problem-solving and workforce development for the animal and feed industries.
- c. **Co-Host, Feed Science Podcast Show (2023 – present).**
  - i. Co-host a professional podcast focused on feed manufacturing and animal agriculture.
  - ii. Conduct interviews with leading researchers, industry professionals, and technical experts from universities and global companies.
  - iii. The podcast serves as a digital extension platform to disseminate science-based information and promote dialogue between academia and industry.
- d. **Instructor of Soybean Excellence Centers for Feed Manufacturing and Poultry Production (2019 – present)**
  - i. Deliver online technical trainings in feed milling and poultry production for feed mill personnel, nutritionists, and poultry professionals across Latin America, Europe, North Africa, and Middle East, reaching more than 20,000 professionals to date.

## 6. EXTENSION AND INDUSTRY ENGAGEMENT

Feed processing is an integral component of poultry production in Alabama, where approximately 5.5 million tons of feed are manufactured annually. Dr. Pacheco's Extension and outreach program focus on supporting the poultry and feed industries in Alabama and across the United States by providing science-based training, technical support, and innovation in feed manufacturing and poultry nutrition. His program works closely with poultry integrators, feed manufacturers, and allied industry partners to deliver educational programs on feed mill regulations and compliance, feed safety, process control, ingredient quality, feed manufacturing practices, and broiler nutrition. These activities aim to improve feed manufacturing efficiency, enhance feed safety, and reduce production costs while maintaining high standards of animal health and performance.

Following the implementation of the Food Safety Modernization Act (FSMA) animal food rule in 2015, Dr. Pacheco has played an active role in assisting feed mills with regulatory compliance related to Good Manufacturing Practices (GMPs) and Hazard Analysis and Risk-Based Preventive Controls (HARPC). He contributed to the review of the standardized training curriculum for Preventive Controls Qualified Individuals (PCQI) and helped organize PCQI training workshops at the Charles C. Miller Jr. Poultry Research and Education Center at Auburn University using the FDA-approved curriculum. These trainings prepare industry professionals to develop and implement comprehensive animal food safety plans for feed manufacturing facilities.

Dr. Pacheco also organizes hands-on feed milling workshops designed to train feed mill managers, supervisors, and technical personnel in key operational areas including grinding, batching, mixing, pelleting, and quality control of ingredients and finished feeds. In addition to workshops, he

provides on-site technical assistance through feed mill visits across Alabama, the United States, and internationally to help companies optimize feed manufacturing processes and improve operational efficiency. One recent workshop welcomed 57 feed mill professionals representing operations that collectively produce more than 200,000 tons of feed per week. Participants ranged from newcomers with less than one year of experience to seasoned professionals with more than 40 years in the industry. For several attendees, the workshop served as their first formal technical training, highlighting the continued need for accessible workforce development programs in feed milling and the importance of university-led industry training initiatives.

Through collaborations with Kansas State University and the U.S. Soybean Export Council, Dr. Pacheco has contributed to the development and implementation of international training programs in poultry production and feed manufacturing as part of the Soy Excellence Centers initiative across North Africa, Southeast Asia, and Latin America. These programs combine online and in-person instruction and have trained more than 20,000 industry professionals worldwide, with participation continuing to grow.

Collectively, these outreach and training initiatives support the global poultry and feed industries by improving production efficiency, strengthening feed safety practices, and contributing to a more sustainable and affordable supply of poultry products for consumers.

## 7. RESEARCH PROGRAM

Dr. Pacheco’s research program focused on understanding the interactions between feed manufacturing processes and poultry nutrition and how these interactions influence nutrient utilization, feed quality, and broiler performance. The overall goal of this work is to generate practical, science-based solutions that improve feed manufacturing efficiency, optimize nutrient use, and enhance the sustainability of poultry production. This program integrates applied research in feed mills with strong collaboration with industry partners to address real-world challenges faced by the animal and feed industries.

## 8. TEACHING AND MENTORING

Dr. Wilmer Pacheco teaches undergraduate and graduate students in animal feed manufacturing that integrate scientific principles with hands-on training in feed mill operations. His course emphasizes the full feed manufacturing process from ingredient evaluation and receiving, grinding, batching and mixing, pelleting, quality control and feed delivery systems using Auburn University’s state-of-the-art feed mill. Through a combination of lectures, laboratory exercises, industry-relevant projects, and practical training, students develop both technical knowledge and applied skills essential for careers in the feed and livestock industries.

Course and Title	Credit Hours	Term	Enrollment	
			Graduate	Undergraduate
<b>POUL 5020/6020:</b> Principles of Animal Feed Manufacturing	3	Spring, 2026	6	20
	3	Spring, 2025	8	12
	3	Spring, 2024	12	6

### **Student Organization Advising**

- **Faculty Advisor**, Poultry Science Student Club, Department of Poultry Science, Auburn University (2019–2021 and 2025-present)
- **Faculty Advisor**, Poultry and Food Science Graduate Student Association, Department of Poultry Science, Auburn University (2020–Present)
- **Faculty Advisor**, Zamorano Alumni Association at Auburn University (2022–Present)

### **Graduate Students Supervised (Major Professor)**

Dr. Pacheco has served as Major Professor for 12 graduate students in the Department of Poultry Science at Auburn University.

1. **Maria José Brizuela**, M.S., Poultry Science.
2. **Urias Castillo**, M.S., Poultry Science.
3. **Eva Guzman**, M.S., Poultry Science.
4. **Lillian Brito Lins**, M.Ag., Poultry Science.
5. **Chinelo Onah-Kachiside**, M.S., Poultry Science.
6. **José Rodrigo Hernandez**, M.S., Poultry Science – currently Ph.D. student, Department of Poultry Science, Auburn University.
7. **Isaac Vargas**, M.S., Poultry Science (Spring 2020) – currently Ph.D. student, Department of Poultry Science, Auburn University.
8. **Susan Bonilla**, M.S., Poultry Science – Peco Foods, Tuscaloosa, Alabama.
9. **Joseph Gulizia**, M.S. and Ph.D., Poultry Science – Novus International.
10. **Martha Rueda**, M.S., Poultry Science – Technical Development Trainee, Aviagen
11. **Fozol Korim Ovi**, M.S., Poultry Science – Iowa State University
12. **Andrea Rubio**, M.S., Poultry Science – Poultry Field Data Manager, Hy-Line International.

### **Graduate Student Committees (Committee Member)**

Dr. Pacheco has served as a graduate committee member for 24 M.S., M.Ag., and Ph.D. students across multiple departments at Auburn University and other institutions. These committees span disciplines including poultry science, fisheries, animal sciences, civil engineering, and veterinary medicine, as well as international universities.

### **Department of Poultry Science**

1. **Erasmus Flores Granados**, M.S., Poultry Science
2. **Rana Waqar Tabish**, Ph.D., Poultry Science
3. **Nelsa Beckman**, Ph.D., Poultry Science
4. **Andrew Nash**, M.Ag., Poultry Science
5. **Maria Tereza Terra**, Ph.D., Poultry Science
6. **Stephanie Philpot**, M.S. and Ph.D., Poultry Science
7. **Luis Muñoz**, M.S. and Ph.D., Poultry Science
8. **Cesar Escobar Lobo**, M.S., Poultry Science
9. **Samuel Leiva**, M.S., Poultry Science
10. **Tanner Wise**, M.S., Poultry Science
11. **Lindsey Spencer**, M.S., Poultry Science
12. **Oscar Tejada**, M.S., Poultry Science

13. **Klinton McCafferty**, M.S., Poultry Science
14. **Brendan Gould**, M.S., Poultry Science
15. **Suryo Gandasmita**, M.Ag., Poultry Science
16. **Ruben Kriseldi**, M.S., Poultry Science

#### **Interdisciplinary committees:**

1. **Stephanie Velasquez**, Ph.D., School of Fisheries
2. **Alexandra Amorcho**, Ph.D., School of Fisheries
3. **Chunxi Huang**, Ph.D., Department of Animal Sciences
4. **Cesar Mayorga**, Ph.D., Department of Civil Engineering

#### **Other Universities in the USA**

1. **Jorge Urrutia**, Ph.D., Poultry Science, Mississippi State University

#### **Other Universities Internationally**

1. **Cristina Tonial Simões**, Ph.D., Preventive Veterinary Medicine, Federal University of Santa Maria, Brazil
2. **Natalia Sitanaka**, Ph.D., State University of Maringá, Brazil
3. **Jomara Broch**, Ph.D., State University of Western Paraná, Brazil

#### **Student Interns and Visiting Scholars**

Dr. Pacheco has hosted and mentored 33 international student interns and visiting scholars from 11 countries, providing hands-on training in feed milling, poultry nutrition, and research methods at Auburn University. These training experiences support workforce development and strengthen international collaborations in the poultry and feed industries.

1. Santiago Sasia (Argentina)
2. Aaron Rivera (Bolivia)
3. Cesar Lobo (Bolivia)
4. Juan Carlos Aranibar (Bolivia)
5. Gabriel Peron (Brazil)
6. Isabella Dias (Brazil)
7. Beatriz Onishi (Brazil)
8. Isadora Pegoraro Pallaoro (Brazil)
9. Cristina Simões (Brazil)
10. Patricia Soster (Brazil)
11. Leopoldo Almeida (Brazil)
12. Cleison de Souza (Brazil)
13. Xiyuan Wang (China)
14. Sebastian Velez (Colombia)
15. Jenny Alejandra Lopez (Colombia)
16. Esteban Rosero (Ecuador)
17. Isaac Vargas (Ecuador)
18. Danny Patiño (Ecuador)
19. Erasmo Flores (El Salvador)

20. Pablo Barrera (Guatemala)
21. Urias Castillo (Guatemala)
22. Edman Mendez (Guatemala)
23. Ronald Pivaral (Guatemala)
24. Fabio Valenzuela (Honduras)
25. Maria José Brizuela (Honduras)
26. Jibely Martinez (Honduras)
27. Eva Guzman (Honduras)
28. Susan Bonilla (Honduras)
29. Martha Rueda (Honduras)
30. Allan Pinto (Honduras)
31. Endhier Lezcano (Panama)
32. Sureerat Thuekeaw (Thailand)
33. Natawadee Pinyosnit (Thailand)

## 9. PUBLICATIONS

### Peer-reviewed journal publications (54 publications).

#### Published

1. Buwjoom T, P. Petwattanapha, B. Maneewan, P. Rattanang, **W. J. Pacheco**, and S. Thuekeaw. 2025. Microencapsulated *Ganoderma lucidum* extract improves antioxidant capacity, intestinal morphology, and nutrient digestibility in free-range laying hens under tropical conditions, *Veterinary World*, 18(12): 3684-3697. <https://doi.org/10.14202/vetworld.2025.3684-3697>
2. \*Hernandez, J. R., J. P. Gulizia, J. I. Vargas, E. G. Guzman, I. Pegoraro, B. Onishi, M. J. Brizuela, J. Martinez, and **W. J. Pacheco**. 2025. Effect of feed form, energy level, and conditioning temperature on broiler performance, feed wastage, and nutrient digestibility from 1 to 21 days of age. *J. Appl. Poult. Res.* 35 (2026) 100641. <https://doi.org/10.1016/j.japr.2025.100641>.
3. Alfaro, G. F., Y. Zhou, W. Cao, Y. Zhang, S. P. Rodning, R. B. Muntifering, W. J. Pacheco, S. J. Moisés, and X. Wang. 2025. Metagenomic analysis revealed significant changes in the beef cattle rectum microbiome under fescue toxicosis. *Biology* 2025, 14, 1197. <https://doi.org/10.3390/biology14091197>
4. Aderibigbe, A. S., K. W. McCafferty, R. Hauck, **W. J. Pacheco**, S. J. Rochell, S. C. Philpot, and W. A. Dozier, III. 2025. Response of broiler chickens vaccinated against coccidiosis to diets containing varying amino acid density and a nucleotide-rich extract during the pre-starter and starter periods. *J. Appl. Poult. Res.* 34 (2025) 100588. <https://doi.org/10.1016/j.japr.2025.100588>
5. Svihus, B., M. R. Abdollahi, K. G. S. Wamsley, **W. J. Pacheco**, H. Hetland. 2025. Structural architecture of pelleted broiler diets: A comprehensive narrative review of key factors for an optimized macro-and microstructure. *Poult. Sci.* 104 (2025) 105478. <https://doi.org/10.1016/j.psj.2025.105478>
6. \*Brizuela, M.J., J.I. Vargas, I.C. Dias, J.P. Gulizia, E.G. Guzmán, J.R. Hernández, C.T. Simões, and W.J. Pacheco. 2025. Influence of local and reimported U.S. and South American corn sources on broiler performance, nutrient digestibility, and processing yield. *Animals.* 15(12):1770. <https://doi.org/10.3390/ani15121770>
7. \*Gulizia, J.P., R.W. Tabish, J.I. Vargas, J.R. Hernandez, C.T. Simões, E.G. Guzman, S.J. Rochell, R. Hauck, M.A. Bailey, W.A. Dozier, K.W. McCafferty, and W.J. Pacheco. 2025. Response of broilers subjected to an enteric challenge and fed diets with varying limestone particle sizes and calcium concentrations–part 1: performance, tibia mineralization, and nutrient digestibility. *Poult. Sci.* 104(8):105385. <https://doi.org/10.1016/j.psj.2025.105385>
8. \*Gulizia, J.P., Z. Khalid, M.T. Terra-Long, W.J. Pacheco, J.I. Vargas, J.R. Hernandez, J. Krehling, K. Macklin, W.A. Dozier, III, K.W. McCafferty, and R. Hauck. 2025. Response of YPM x Ross 708 male broilers to diets containing varying inclusions of phytase, calcium butyrate, and bacitracin methylene

- disalicylate during the grower and finisher periods—part 2: intestinal health and physiology. *Poult. Sci.* 104(3):104862. <https://doi.org/10.1016/j.psj.2025.104862>
9. \*Vargas, J. I., **Pacheco, W. J.**, Malcorra, L. A., Starkey, C. W., and Spencer, L. F. 2025. Evaluation of conditioning temperature and retention time in the hygieniser on *Enterococcus faecium*, vitamin stability, metabolizable energy, and amino acid digestibility. *J. Appl. Poult. Res.* 34(2025):100520. <https://doi.org/10.1016/j.japr.2025.100520>
  10. Terra-Long, M.T., A. Pietruska, J.P. Gulizia, T. True, J. Butler, B.A. McCrea, W.J. Pacheco, D.V. Bourassa, and R. Hauck. 2025. Effect of supplementation with *Artemisia absinthium* or pumpkin seed powder on *Ascaridia galli* worm burdens, productivity, nutrient digestibility, and cytokine gene expression in laying hens. *Avian Dis.* 69(1):74-81. <https://doi.org/10.1637/aviandiseases-D-24-00052>
  11. \*Vargas, J. I., A. D. McConnell, J.P. Gulizia, **W. J. Pacheco**, and K.M. Downs. 2025. Assessing feed color preference of broilers during the starter phase. *Poultry.* 4(1):2. <https://doi.org/10.3390/poultry4010002>
  12. \*Gulizia, J.P., J.I. Vargas, S.M. Bonilla, J.R. Hernandez, L.M. Almeida, P. Soster, S. Thuekeaw, B. Hutson, S. Llamas-Moya, T. Duong, and W.J. Pacheco. 2024. Influence of diet nutrient density and a multicarbohydrase containing  $\alpha$ -galactosidase on performance, carcass characteristics, breast myopathies, and nutrient utilization of broilers reared from 1 to 42 days of age. *Poult. Sci.* 104(1):104522. <https://doi.org/10.1016/j.psj.2024.104522>
  13. \*Gulizia, J. P., M. T. Terra-Long, Z. Khalid, J. I. Vargas, S. M. Bonilla, J. R. Hernandez, S. Thuekeaw, R. Hauck, K. S. Macklin, W. A. Dozier, III, K. W. McCafferty, and **W. J. Pacheco**. 2024. Response of YPM x Ross 708 male broilers to diets containing varying inclusions of phytase, calcium butyrate, and bacitracin methylene disalicylate from 1 to 42 days of age—Part 1: Performance, processing yields, and nutrient digestibility. *Poult. Sci.* 103(12):104350. <https://doi.org/10.1016/j.psj.2024.104350>
  14. \*Vargas, J. I., J. P. Gulizia, J. R. Hernandez, C. T. Simoes, E.G. Guzman, J. Lee, R. Adhikari, S. E. Han, and **W. J. Pacheco**. 2024. Dose response of xylanase enzyme on ileal viscosity, digestibility of nutrients, and performance of broiler chickens fed wheat-based diets. *J. Appl. Poult. Res.* 33(4):100479. <https://doi.org/10.1016/j.japr.2024.100479>
  15. Alfaro, G. F., V. Palombo, M. D'Andrea, W. Cao, Y. Zhang, J. Beever, R. B. Muntifering, **W. J. Pacheco**, S. P. Rodning, X. Wang, and S. J. Moisa. 2024. Hepatic transcript profiling in beef cattle: effects of feeding endophyte-infected tall fescue seeds. *PLoS ONE.* 19(7): e0306431.
  16. \*Gulizia, J. P., A. D. McConnell, R. E. Strobeck, C. M. Broadwater, E. G. Guzman, C. T. Simoes, J. R. Hernandez, W. J. Pacheco, and K. M. Downs. 2024. Applied research note: The impact of retention time during the conditioning process of a broiler starter diet on performance, apparent metabolizable energy, and apparent ileal digestibility of nutrients. *J. Appl. Poult. Res.* 33(3):100435. <https://doi.org/10.1016/j.japr.2024.100435>
  17. \*Hernandez, J. R., J. P. Gulizia, J. I. Vargas, S. Thuekeaw, E. Guzman, C. T. Simoes, and **W. J. Pacheco**. 2024. Effect of metabolizable energy levels and conditioning temperatures on broiler performance, processing yield, footpad lesions, and nutrient digestibility from 1 to 42 days of age. *J. Appl. Poult. Res.* 33(2):100414. <https://doi.org/10.1016/j.japr.2024.100414>
  18. \*Rueda, M. S., S. Bonilla, C. de Souza, J. D. Starkey, C. W. Starkey, L. Mejia, and **W. J. Pacheco**. 2024. Evaluation of particle size and feed form on performance, carcass characteristics, nutrient digestibility, and gastrointestinal tract development of broilers at 39 d of age. *Poult. Sci.* 103:103437.
  19. Escobar, C., L. R. Muñoz, M. A. Bailey, J. T. Krehling, **W. J. Pacheco**, R. Hauck, R. J. Buhr, and K. S. Macklin. 2023. Buffering capacity comparison of Tris Phosphate Carbonate (TPC) and buffered peptone water (BPW) *Salmonella* pre-enrichments for manufactured feed and feed ingredients. *Animals.* 13(19):3119
  20. \*Vargas, J. I., J. P. Gulizia, S. M. Bonilla, S. Sasia, and **W. J. Pacheco**. 2023. Apparent metabolizable energy and amino acid digestibility of corn from different origin fed to male broilers from 12 to 18 days of age. *Animals.* 13(19):3111.

21. Alfaro, G. F., V. Palombo, M. D'Andrea, W. Cao, Y. Zhang, J. Beever, R. B. Muntifering, **W. J. Pacheco**, S. P. Rodning, X. Wang, and S. J. Moisa. 2023. Hepatic transcript profiling in beef cattle: effect of rumen-protected niacin supplementation. *PLoS ONE* 18(8): e0289409.
22. Munoz, L. R., M. A. Bailey, J. T. Krehling, D. V. Bourassa, M. R. Hauck, **W. J. Pacheco**, B. Chaves-Cordoba, K. S. Chasteen, A. A. Talorico, C. Escobar, A. Pietruska, and K. S. Macklin. 2023. Role of mannan oligosaccharide supplementation with and without a *Campylobacter jejuni* challenge in broilers. *Avian diseases*.
23. \*Vargas, J. I., J. P. Gulizia, S. M. Bonilla, S. Sasia, and **W. J. Pacheco**. 2023. Effect of corn origin on broiler performance, processing yield, and nutrient digestibility from 1 to 35 days of age. *Animals*. 13(7):1248. <https://doi.org/10.3390/ani13071248>
24. \*Gulizia, J. P., S. M. Bonilla, J. I. Vargas, S. J. Sasia, S. Llamas-Moya, T. Duong, and **W. J. Pacheco**. 2023. The effects of phytase and multicarbohydrase complex containing alpha-galactosidase on performance, processing yield, and nutrient digestibility in the broiler chicken. *J. Appl. Anim. Res. J. Appl. Anim. Res.* 51(1):308-322. <https://doi.org/10.1080/09712119.2023.2197975>
25. Alfaro, G. F., R. B. Muntifering, **W. J. Pacheco**, S. P. Rodning, S. J. Moisa. 2023. Effects of endophyte-infected tall fescue on performance of genotyped pregnant beef cows supplemented with rumen-protected niacin. *Livest Sci.* 270-105206.
26. Munoz, L. R., M. A. Paul, M. A. Bailey, J. T. Krehling, R. Hauck, **W. J. Pacheco**, K. S. Chasteen, A. A. Talorico, C. Escobar, and D. V. Bourassa and K. S. Macklin. 2023. Effect of yeast cell wall on performance, pathogen colonization, innate immune response, histomorphology, and slaughter characteristics of broiler chickens inoculated with *Campylobacter jejuni* at day 21. *Poult. Sci.* 102:102609.
27. Downs, K. M., J. P. Gulizia, G. R. Harder, E. K. Stafford, S. J. Sasia, and **W. J. Pacheco**. 2023. Corn particle size variation effects on broiler performance, organ weights, and nutrient digestibility during the early growout period (day 1 to 21). *J. Appl. Poult. Res.* 32(1):100327. <https://doi.org/10.1016/j.japr.2022.100327>
28. Slimen I, B., N. Taha, and **W. Pacheco**. 2022. Betalains in animal nutrition and health: importance as animal feed supplements: A review. *Agricultural reviews*, Volume 43 Issue 2: 178 – 185.
29. Leiva, S. F., J. L. Sandoval, G. Abascal Ponciano, J. L. Flees, A. J. Calderon, **W. J. Pacheco**, and C. W. Starkey. 2022. Improper sample preparation negatively affects near infrared reflectance spectroscopy (NIRS) nutrient analysis of ground corn. *Anim. Feed Sci. and Tech.* 293:115492.
30. \*Hernandez, J. R., J. P. Gulizia, J. B. Adkins, M. S. Rueda, S. I. Haruna, **W. J. Pacheco**, and K. M. Downs. 2022. Effect of phytase level and form on broiler performance, tibia characteristics, and residual fecal phytate phosphorus in broilers from 1 to 21 days of age. *Animals*. 12(15):1952. <https://doi.org/10.3390/ani12151952>
31. \*Gulizia, J. P., M. S. Rueda, F. K. Ovi, S. M. Bonilla, R. Prasad, M.E. Jackson, O. Gutierrez, and **W. J. Pacheco**. 2022. Evaluate the effect of a commercial heat stable phytase on broiler performance, tibia ash, and mineral excretion from 1 to 49 days of age assessed using nutrient reduced diets. *J. Appl. Poult. Res.* 31(3):100276. <https://doi.org/10.1016/j.japr.2022.100276>
32. Downs, K. M., J. P. Gulizia, E. K. Stafford, and **W. J. Pacheco**. 2022. Influence of varying dietary kudzu leaf meal particle size on performance, breast weight, and organ weight of broiler chickens from 1 to 21 days of age. *Poultry*. 1(1):30-39. <https://doi.org/10.3390/poultry1010004>
33. Jones, M. K., J. E. Ferrel, F. L. S. Castro, and **W. J. Pacheco**. 2022. The effects of various levels of distillers dried grains with solubles (DDGS) and a dacitic (rhyolitic) tuff breccia on pellet production rate and durability. *J. Appl. Poult. Res.* 31:100250.
34. \*Rueda, M., A. A. Rubio, C. W. Starkey, F. Mussini, and **W. J. Pacheco**. 2022. Effect of conditioning temperature on pellet quality, performance, nutrient digestibility, and processing yield of broilers. *J. Appl. Poult. Res.* 31:100235.
35. Hauck, R., and **W. J. Pacheco**. 2021. Detection of *Coccidia* Oocysts in Litter and Feces of Broilers in a Floor Pen Trial. *Journal of Parasitology*. 107(6). 878-881.

36. Ayres, V. E., M. E. Jackson, S. A. Cantly, S. J. Rochell, B. C. Bodle, **W. J. Pacheco**, M. S. Rueda, C. A. Bailey, K. Gardner, T. P. Boltz, and J. S. Moritz. 2021. The effects of Optiphos and Optiphos Plus on 21-day broiler performance and tibia mineralization. *J. Appl. Poult. Res.* 30:100210.
37. **\*Pacheco, W. J.**, D. B. Patiño, J. I. Vargas, J. P. Gulizia, K. S. Macklin, and T. J. Biggs. 2021. Effect of partial replacement of inorganic zinc and manganese with zinc methionine and manganese methionine on live performance and breast myopathies of broilers. *J. Appl. Poult. Res.* 30:100204.
38. De Souza, C., C. Eyng, A. AM. Viott, A. S. de Avila, **W. J. Pacheco**, N. R. Junior, T. L. Kohler, K. I. Tenorio, E. H. Cirilo, and R. V. Nunes. 2021. Effect of dietary guanidinoacetic acid and nucleotides supplementation on growth performances, carcass traits, meat quality and occurrence of myopathies in broilers. *Livestock Science.* 251: 104659
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92. Spencer, L.\*, L. Avila, A. Calderon, D. Patino, **W. J. Pacheco**, E. Monu, O. Fasina, C. Starkey. 2019. Evaluation of differential scanning calorimetry to assess starch gelatinization of multicomponent feed processed with different conditioner temperatures and Hygieniser retention times. Abstr. M55. International Poultry Scientific Forum.
93. \*Rubio, A. A.\*, A. Lopez, J. B. Hess, W. D. Berry, W. A. Dozier III and **W. J. Pacheco**. 2018. Effects of feed form and amino acid densities on productive and processing performance of broilers. *Poult. Sci.* 107, E-Suppl. 1:16.
94. \*Rubio, A. A.\*, A. Lopez, J. B. Hess, W. D. Berry, W. A. Dozier III and **W. J. Pacheco**. 2018. Effects of corn particle size during the finisher period on broiler growth performance. *Poult. Sci.* 107, E-Suppl. 1:499p.
95. Linares, L., M. Rebollo, A. Fireman, D. Neves, A. Grove, D. Bourassa, J. Hess, and **W. J. Pacheco**. 2018. Effect of digestible lysine levels and metal-amino acid complexes on performance and breast meat characteristics in broilers. *Poult. Sci.* 107, E-Suppl. 1:500p.
96. Franklin, A., B. R. Min, N. K. Gurung, J. H. Lee, and **W. J. Pacheco**. 2018. The effect of a linear relationship between the dose of peanut skin supplementation and animal performance, ruminal fermentation, blood metabolites, and carcass traits in meat goats confined indoor. *J. Anim. Sci.* (Suppl. 1). American Society of Animal Science 2018. PSVII-A.
97. \*Rubio, A.\*, J. Aranibar, H. Fuentes, and **W. J. Pacheco**. 2018. Effect of different inclusion levels of whole corn on productive and processing performance of broilers. Abstr. M79. International Poultry Scientific Forum.
98. Bortoluzzi, C., A. Rubio, J. Aranibar, T. Applegate, and **W. J. Pacheco**. 2018. Effect of whole corn inclusion in the diets of broiler chickens on ileal and cecal microbiota. P189. International Poultry Scientific Forum.
99. Giambrone, J. J., **W. J. Pacheco**, P. Alfonso, C. L. Perera, and M. Torres. 2017. Collaboration with Cuban Institutions on poultry health and management. The American Association of Avian Pathologists Meeting.
100. Alfonso, P. C. L. Perera, M. Torres, **W. J. Pacheco**, and J. J. Giambrone. 2017. Development of optimal on farm composting methods. The American Association of Avian Pathologists Meeting.
101. \*Rubio, A.\*, A. Pinto, J. B. Hess, and **W. J. Pacheco**. 2017. Evaluation of the effect of corn particle size on pellet quality using three methodologies. *Poult. Sci.* 106, E-Suppl. 1:15.
102. \*Rubio, A. A.\*, A. Pinto, J. B. Hess, and **W. J. Pacheco**. 2017. Effect of corn particle size on during the starter and grower periods on broiler performance. *Poult. Sci.* 106, E-Suppl. 1:484p.
103. **Pacheco, W. J.**, W. D. Berry, and J. B. Hess, R. Cabrera, and M. Richards. 2017. Live performance and footpad health in broilers fed an additive composed of secondary plant compounds (SPC) and vaccinated for coccidiosis. Abstr. T172. International Poultry Scientific Forum.
104. \*Rubio, A. A.\*, W. Dozier, E. Lezcano, and **W. J. Pacheco**. 2017. Effects of feed form during the starter period on productive and processing performance of broilers. Abstr. M84. International Poultry Scientific Forum.
105. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, J. Brake, and A. C. Fahrenholz. 2016. Effect of heat

- treatment on TMEn and AA digestibility of expeller-extracted soybean meal. Abstr. 1-0264. XXV World Poultry Congress, Beijing China.
106. **Pacheco, W. J.**, W. D. Berry, and J. B. Hess. 2016. Broiler performance and footpad health in broilers fed and additive composed of secondary plant compounds. Abstr. T189. International Poultry Scientific Forum.
  107. **Pacheco, W. J.**, M. Knauer, E. van Heugten, C. R. Stark, A. C. Fahrenholz, and C. E. Phillips. 2015. The effect of DDGS particle size and pellet quality on grower to finisher pig performance. M69. ASAS Midwestern.
  108. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, J. Brake, and A. C. Fahrenholz. 2014. Effect of particle size of distillers dried grains with solubles and soybean meal on pellet quality, nutrient digestibility, and broiler live performance. *Poult. Sci.* 93, E-Suppl. 1:70.
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  110. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, J. Brake, and A. C. Fahrenholz. 2014. Effect of inclusion level and metabolizable energy values of DDGS on pellet quality, nutrient digestibility, incidence of footpad lesions, and broiler live performance. Abstr. M26. International Poultry Scientific Forum.
  111. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, J. Brake, and A. C. Fahrenholz. 2013. Effect of particle size and inclusion level of DDGS and pellet quality on growth performance and gastrointestinal development of broilers. *Poult. Sci.* 92, ESuppl. 1:41.
  112. Fahrenholz, A. C., **W. J. Pacheco**, C. R. Stark, and J. Brake. 2013. Effect of pellet diameter on broiler live performance. *Poult. Sci.* 92, E-Suppl. 1:189.
  113. **Pacheco, W. J.**, C. Stark, J. Brake, and P. Ferket. 2012. Evaluation of ESBM and corn particle size on broiler performance. Abstr. M23. International Poultry Scientific Forum.
  114. **Pacheco, W. J.**, P. R. Ferket, C. R. Stark, and J. Brake. Particle Size Affects Digestibility of Soybean Meal and Other Ingredients. Carolina Feed Industry Association Meeting, 2011. Raleigh, NC.
  115. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, and J. Brake. 2011. Evaluation of different levels of trypsin inhibitor and particle size of expeller-extracted SBM on broiler performance. *Poult. Sci.* 90, E-Suppl. 1:382.
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  117. **Pacheco, W. J.**, C. R. Stark, P. R. Ferket, and J. Brake. 2010. Evaluation of expeller-produced and solvent-extracted soybean meal at two particle sizes on broiler performance. Abstr. 25. International Poultry Scientific Forum.
  118. **Pacheco, W. J.**, and C. R. Stark. 2009. Effect of feed sample weight on pellet durability index. *Poult. Sci.* 88, E-Suppl. 1:248p.

## 10. PRESENTATIONS

Dr. Pacheco has delivered over 300 invited lectures, workshops, webinars, and professional presentations in the United States and internationally on feed manufacturing, poultry nutrition, feed safety, process control, pellet quality, and broiler management. His invited presentations have served academic, industry, and extension audiences across North America, Latin America, Europe, Africa, Asia, and the Middle East.

### Selected Invited Lectures, 2024–2025

- **Pacheco, W. J.** 2025. Pellet characteristics and their influence on poultry productivity. FEDNA Congress, Madrid, Spain.

- **Pacheco, W. J.** 2025. Improving bird performance by optimizing feed mill productivity, safety, and feed quality. Huvepharma Poultry Veterinary Symposium, Athens, Greece.
- **Pacheco, W. J.** 2025. Feed milling strategies to maximize poultry efficiency. Schothorst Feed Research Webinar, Netherlands.
- **Pacheco, W. J.** 2025. Optimization of the feed manufacturing process. Latin Poultry Nutrition Congress, Fort Lauderdale, Florida.
- **Pacheco, W. J.** 2025. Process optimization in feed mills. United States Grains Council, Lima, Peru.
- **Pacheco, W. J.** 2025. Importance of soy products in laying hen feeding. 1st USSEC Short Course in Laying Hen Nutrition and Feeding Management, Ifrane, Morocco.
- **Pacheco, W. J.** 2025. Critical points in feed mills. Aviagen Training Conference, Latin America, Panama City, Panama.
- **Pacheco, W. J.** 2025. Feed mill checklist to improve efficiency and quality. Feed Milling Workshop, Auburn University, Auburn, Alabama.
- **Pacheco, W. J.** 2025. Optimizing feed quality and safety: Key strategies for swine nutrition and feed milling operations. Novus Swine Nutrition Forum, Amsterdam, Netherlands.
- **Pacheco, W. J.** 2025. Particle size management in poultry feeds. Latin American Poultry Summit, Atlanta, Georgia.
- **Pacheco, W. J.** 2024. Optimizing feed micro- and macrostructure to enhance poultry performance. FEDNA Symposium, Madrid, Spain.
- **Pacheco, W. J.** 2024. Optimizing animal health and productivity through feed technology. Modern Animal Production: Challenges and Opportunities, Bali, Indonesia.
- **Pacheco, W. J.** 2024. The feed mill perspective: Improving feed manufacturing efficiency and feed quality. Georgia Feed and Grain Association, Amelia Island, Florida.
- **Pacheco, W. J.** 2024. Feed manufacturing for optimum animal performance. Amlan LATAM Tech Summit, Punta Cana, Dominican Republic.
- **Pacheco, W. J.** 2024. Effect of feed processing on poultry performance. Poultry Seminar, University of Georgia, Athens, Georgia.

## 11. DIGITAL MEDIA CONTRIBUTIONS

Dr. Wilmer Pacheco has developed a digital extension and outreach initiative that expands access to science-based knowledge in feed manufacturing, animal nutrition, and feed mill operations. Through a series of technical webinars and educational videos featuring leading academic and industry experts, these videos deliver practical advice on topics such as pelleting technology, feed mill efficiency, mycotoxin mitigation, and sustainable livestock nutrition. These resources have collectively reached tens of thousands of viewers worldwide, supporting workforce development and strengthening the global impact of extension education.

Topic	Link	Duration, min	Views
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Dr. Andre Pereira: Feeding strategy when milk prices fall	<a href="https://www.youtube.com/watch?v=0Q4ZzOZgCsw&amp;t=42s">https://www.youtube.com/watch?v=0Q4ZzOZgCsw&amp;t=42s</a>	31	2,200
Olivia Harrison: Is your mill protected?	<a href="https://www.youtube.com/watch?v=CmpLtbxT6Y&amp;t=17s">https://www.youtube.com/watch?v=CmpLtbxT6Y&amp;t=17s</a>	25	587
Dr. Wilmer Pacheco: Plantas de alimento para cerdos: Desafios y oportunidades	<a href="https://www.youtube.com/watch?v=C8o5htQTzp4">https://www.youtube.com/watch?v=C8o5htQTzp4</a>	36	2,600
Dr. Wilmer Pacheco: General poultry nutrition and mixing your own feed	<a href="https://www.youtube.com/watch?v=C8o5htQTzp4">https://www.youtube.com/watch?v=C8o5htQTzp4</a>	65	620
Dr. Wilmer Pacheco: Precisão na fabrica de ração	<a href="https://www.youtube.com/watch?v=4Qf1b_Avp5Q">https://www.youtube.com/watch?v=4Qf1b_Avp5Q</a>	43	911
Dr. Birger Svihus: Pellet size & efficiency	<a href="https://www.youtube.com/watch?v=xHpljzkd-K0">https://www.youtube.com/watch?v=xHpljzkd-K0</a>	43	4,100
Dr. Megan Van Emon: Summer Feeding Plans	<a href="https://www.youtube.com/watch?v=ZQJ-4ekIOPk">https://www.youtube.com/watch?v=ZQJ-4ekIOPk</a>	25	300
Dr. Roberto Sainz: Can cattle waste less energy?	<a href="https://www.youtube.com/watch?v=bDMRopiP9fg">https://www.youtube.com/watch?v=bDMRopiP9fg</a>	21	800
Dr. Mike Hutjens: Why Milk Fat Is Dropping	<a href="https://www.youtube.com/watch?v=4MS87S2MnBE">https://www.youtube.com/watch?v=4MS87S2MnBE</a>	34	852
Dr. Kevin Harvatine: Feed Impacts on Fat	<a href="https://www.youtube.com/watch?v=rspc2907vtg">https://www.youtube.com/watch?v=rspc2907vtg</a>	28	1,500
Dr. Warren Rusche: Can Soybeans Boost Beef Gains?	<a href="https://www.youtube.com/watch?v=akbnk2g06FA">https://www.youtube.com/watch?v=akbnk2g06FA</a>	28	2,300
Wilmer Pacheco: Multi-carbohydrase enzymes for poultry	<a href="https://www.youtube.com/watch?v=7nY7zrZwYY">https://www.youtube.com/watch?v=7nY7zrZwYY</a>	16	5,500
JT Pope: Feed manufacturing insights	<a href="https://www.youtube.com/watch?v=AeDDCxSovWg">https://www.youtube.com/watch?v=AeDDCxSovWg</a>	39	3,200
Patrick Badger: Feed efficiency and pelleting	<a href="https://www.youtube.com/watch?v=w9ZbLVXBo18">https://www.youtube.com/watch?v=w9ZbLVXBo18</a>	20	500
Kendal Samuelson: Byproducts in Feedlot Nutrition	<a href="https://www.youtube.com/watch?v=OJpJ6knrik">https://www.youtube.com/watch?v=OJpJ6knrik</a>	38	1,500
Andre Pereira: Mixing strategies for dairy feed	<a href="https://www.youtube.com/watch?v=Bz9Z_wTc8Go&amp;t=94s">https://www.youtube.com/watch?v=Bz9Z_wTc8Go&amp;t=94s</a>	26	1,100
Cesar Menendez: Automation in feed mills	<a href="https://www.youtube.com/watch?v=mb2iOjnmLo4">https://www.youtube.com/watch?v=mb2iOjnmLo4</a>	40	1,700
Jose Ramirez: Feed mill efficiency	<a href="https://www.youtube.com/watch?v=geiJECf4wUs">https://www.youtube.com/watch?v=geiJECf4wUs</a>	50	927
Patrick Clark: Efficiency in feed mills	<a href="https://www.youtube.com/watch?v=MJFJRgf60rk">https://www.youtube.com/watch?v=MJFJRgf60rk</a>	36	1,300
Carlos Mallmann: Beyond mycotoxins	<a href="https://www.youtube.com/watch?v=6Fz8jLi08Qs">https://www.youtube.com/watch?v=6Fz8jLi08Qs</a>	53	1,100
Emily Branstad-Spates: Mitigating mycotoxins	<a href="https://www.youtube.com/watch?v=-ZoqMQbSZQE">https://www.youtube.com/watch?v=-ZoqMQbSZQE</a>	27	1,500
Hector Pacheco: Optimizing feed mill operations	<a href="https://www.youtube.com/watch?v=orA54E4m1-s">https://www.youtube.com/watch?v=orA54E4m1-s</a>	45	1,200
Marco Ebbing: Feed processing and broiler physiology	<a href="https://www.youtube.com/watch?v=Bz9Z_wTc8Go&amp;t=121s">https://www.youtube.com/watch?v=Bz9Z_wTc8Go&amp;t=121s</a>	40	761
Dr. Mike Tokach: Five lessons for nutritionists	<a href="https://www.youtube.com/watch?v=QbRn6WGBBgs&amp;t=9s">https://www.youtube.com/watch?v=QbRn6WGBBgs&amp;t=9s</a>	43	150
Dr. Adam Fahrenholz and Dr. Wilmer Pacheco: Exploring feed science	<a href="https://www.youtube.com/watch?v=uxSraEY0aAM&amp;t=64s">https://www.youtube.com/watch?v=uxSraEY0aAM&amp;t=64s</a>	44	480

Down to Earth, Poultry Environmental Footprint		1.5	20,000
Dr. Wilmer Pacheco: Feed Mill's Role	<a href="https://www.youtube.com/watch?v=FacV9xOSRyU">https://www.youtube.com/watch?v=FacV9xOSRyU</a>	32	316
Dr. Wilmer Pacheco: Particle sizes in pellet microstructure	<a href="https://www.youtube.com/watch?v=GQKh9ualgNc&amp;t=78s">https://www.youtube.com/watch?v=GQKh9ualgNc&amp;t=78s</a>	12	1,800
Pellet quality analysis	<a href="https://www.youtube.com/watch?v=b6W8nBkD_b0&amp;t=7s">https://www.youtube.com/watch?v=b6W8nBkD_b0&amp;t=7s</a>	7	1,500
Particle size analysis	<a href="https://www.youtube.com/watch?v=GgnYZEponcs&amp;t=240s">https://www.youtube.com/watch?v=GgnYZEponcs&amp;t=240s</a>	7	1,300
Mixer Uniformity	<a href="https://www.youtube.com/watch?v=pF7As5vyZ_c&amp;t=228s">https://www.youtube.com/watch?v=pF7As5vyZ_c&amp;t=228s</a>	7	871

## 12. AWARDS AND HONORS

### Faculty Awards - Department of Poultry Science, Auburn University

- **Vice President**, World's Poultry Science Association – USA Branch (2025–2029)
- **Board Member**, World's Poultry Science Association – USA Branch (2025–2029)
- **Global Teaching Academy Award**, College of Agriculture, Auburn University (2024)
- **Commitment to Diversity Award**, College of Agriculture, Auburn University (2023)
- **Young Scientist Travel Award**, World's Poultry Science Association, World Poultry Congress, Paris, France (2021)
- **Dean's Grantsmanship Award**, College of Agriculture, Auburn University (2020)
- **Richard L. Guthrie Award for Achievement in International Agriculture**, College of Agriculture, Auburn University (2020)
- **Alumnus of the Month**, Pan-American School of Agriculture (Zamorano) Graduate Student Association, Honduras (2020)
- **Young Scholar Travel Award**, World's Poultry Science Association, World Poultry Congress, Beijing, China (2016)

### Student Awards (as Advisor): 32 Total

Graduate students advised by Dr. Pacheco have received 32 competitive awards and recognitions from national and international scientific organizations, industry partners, and Auburn University. These honors reflect excellence in research, graduate training, and professional development.

- Joseph Gulizia – Alltech Graduate Student Paper Publication Award, International Poultry Scientific Forum, Atlanta, Georgia. (2026)
- Urias Castillo – Alabama Feed and Grain Association Scholarship. (2025)
- Joseph Gulizia – Certificate of Excellence, International Poultry Scientific Forum, Atlanta, Georgia. (2025)
- Eva Guzman – Certificate of Excellence, International Poultry Scientific Forum, Atlanta, Georgia. (2025)
- Joseph Hernandez – Alabama Feed and Grain Association Scholarship. (2024)
- José Rodrigo Hernandez – Elanco Poultry Seminar Award, Department of Poultry Science, Auburn University. (2024)
- Joseph Gulizia – Outstanding Doctoral Student Award, Auburn University. (2024)
- Joseph Gulizia – Alabama Feed and Grain Association Scholarship. (2024)
- Isaac Vargas Patiño – Alabama Feed and Grain Association Scholarship. (2024)
- Joseph Gulizia – Certificate of Excellence, International Poultry Scientific Forum, Atlanta, Georgia. (2024)

- José Rodrigo Hernandez – Graduate Student Research Poster Showcase Winner, College of Agriculture, Auburn University. (2023)
- Isaac Vargas Patiño – Graduate Student Research Poster Showcase Winner, College of Agriculture, Auburn University. (2023)
- Isaac Vargas Patiño – Alabama Feed and Grain Association Scholarship. (2023)
- Joseph Gulizia – Alabama Feed and Grain Association Scholarship. (2023)
- Isaac Vargas Patiño – Student Research Paper Certificate of Excellence, Poultry Science Association, Philadelphia, PA. (2023)
- José Rodrigo Hernandez – Student Research Paper Certificate of Excellence, Poultry Science Association, Philadelphia, PA. (2023)
- Isaac Vargas Patiño – Outstanding Master’s Student Award, Auburn University. (2023)
- Joseph Gulizia – Aviagen Fellowship. (2022)
- José Isaac Vargas – Aviagen Fellowship. (2022)
- José Rodrigo Hernandez – Allen Edgar Graduate Student Award, Department of Poultry Science, Auburn University. (2022)
- Joseph Gulizia – Alabama Feed and Grain Association Scholarship. (2022)
- Joseph Gulizia – Allen Edgar Graduate Student Award, Department of Poultry Science, Auburn University. (2021)
- Joseph Gulizia – Presidential Graduate Research Fellowship, Auburn University. (2021)
- Joseph Gulizia – Youth Program Award, World's Poultry Science Association, World Poultry Congress, Paris, France. (2021)
- Fozol Korim Ovi – Youth Program Award, World's Poultry Science Association, World Poultry Congress, Paris, France. (2021)
- Susan Bonilla – Certificate of Excellence, International Poultry Scientific Forum, Atlanta, Georgia. (2021)
- Susan Bonilla – Certificate of Excellence, Poultry Science Association. (2020)
- Martha Rueda – Novus Award, College of Agriculture, Auburn University. (2020)
- Andrea Rubio – Certificate of Achievement, International Poultry Scientific Forum, Atlanta, Georgia. (2018)
- Andrea Rubio – Certificate of Excellence, Poultry Science Association Annual Meeting, San Antonio, Texas. (2018)
- Andrea Rubio – Elanco Award, Poultry Science Seminar, Auburn, Alabama. (2017)
- Andrea Rubio – Student Research Paper Certificate of Excellence, Poultry Science Association Annual Meeting, Orlando, Florida. (2017)

### 13. PROFESSIONAL SERVICE

#### University Service

##### Service to the University

- **Competitive Research Grant Committee**, Auburn University (2017–2019).
- **Reviewer**, Intramural Grants Program Review Panel, Auburn University (2016–2018).

##### Service to the College of Agriculture

- **Chair**, Global Programs Committee, College of Agriculture, Auburn University (2021–2025).
- **Leader**, Agriculture in Greece Study Abroad Program, College of Agriculture, Auburn University (2023).

- **Member**, Global Programs Advisory Committee, College of Agriculture, Auburn University (2016–Present).
- **Reviewer**, York International Scholar Program, Auburn University (2016–Present).
- **Review Panel Member**, Richard L. Guthrie Award for Achievement in International Agriculture (2017 and 2025).
- **Review Panel Member**, Novus International Research Award (2017 and 2023).

### Service to the Department of Poultry Science

- **Graduate Program Officer**, Department of Poultry Science, Auburn University (2020–Present).
- **Member**, Academic Program Review Committee (2025).
- **Member**, Faculty Search Committee – Department Head (2024).
- **Chair**, Feed Milling Committee (2019–Present).
- **Chair**, Faculty Search Committee – Poultry Nutrition Position (2022).
- **Member**, Faculty Search Committee – Department Head (2024)
- **Member**, Faculty Search Committee – Interim Department Head (2023).
- **Advisor**, Zamorano Student Association (2022–Present).
- **Advisor**, Poultry Science Graduate Student Club (2020–Present).
- **Co-Advisor**, Poultry Science Club (2019–2021).
- **Member**, Poultry Science Academic Review Committee (2017).
- **Member**, Feed Milling Committee (2016–2019).
- **Member**, Farm Committee (2016–2019).
- **Member**, Brewer Service Award Committee (2018–Present).
- **Member**, Search Committee – West Alabama Fisheries Extension Specialist (2016).
- **Member**, Search Committee – Feed Mill Assistant Professor (2015).

### Professional Societies

#### Chair/Moderator:

2026	Southeastern Poultry Science Association, Session judge
2025	Southeastern Poultry Science Association, Session judge
2024	Southeastern Poultry Science Association, Session judge
2023	Southeastern Poultry Science Association, Session judge
2022	Southeastern Poultry Science Association, Session chair and judge
2017	Poultry Science Association, session chair
2017	Poultry Science Association, moderator
2017	Southeastern Poultry Science Association, judge

#### Industry and poultry associations:

2025-present	World Poultry Science Association USA Branch – Board of directors
2025-present	PSA Global Relations Committee
2019-present	Advisor for Alabama Feed and Grain Association
2016-present	Member of integrator interest group, American Feed Industry Association (AFIA)
2016-present	Member of the planning committee for the Poultry Nutrition and Milling seminar in Guntersville, AL. Alabama Poultry and Egg Association.