

Curriculum Vitae

Klao Runcharoon, DVM, PhD

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Address Work

College of Veterinary Medicine,
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Current Position

Assistant Professor (Tenure-track), College of Veterinary Medicine, Arkansas State University, 05/2026 - present

Professional experience

Graduate Research Assistant, Ph.D. student, Department of Population Health, College of Veterinary Medicine, University of Georgia, 06/2022- 05/2026

Graduate Teaching Assistant, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, 01/2025 – 05/2026

Ph.D. student, Department of Poultry Science, College of Agriculture and Environmental Science, University of Georgia, 01/2022- 05/2022

Technical Sales Advisor 2020 – 2021, Elanco Thailand, Bangkok, Thailand

Cabin Crew 2020, Qatar Airways, Doha, Qatar

Technical Poultry Veterinarian 2018 – 2020, Betagro Company Limited, Bangkok, Thailand

Education

Jan 2022 – May 2026 Comparative Biomedical Science, Department of Population Health, College of Veterinary Medicine, University of Georgia, PhD, GPA – 3.77

Dissertation title: “Genomic Landscape and Pathogenic Characterization of Avian Pathogenic *Escherichia coli* (APEC): Integrating Genotyping Tools and Animal Challenge Models to Assess Virulence in Poultry.”

2026 - Certificate in University Teaching, University of Georgia

2012 – 2018 Kasetsart University, Bangkok, Thailand. Doctor of Veterinary Medicine (DVM), First class honors (GPA – 3.82)

Academic Awards

An Outstanding Teaching Assistant Award – 2025-2026, Center for Teaching and Learning, University of Georgia

Thailand's delegate – Global Young Scientist (GYSS) 2024, Singapore

Granted – The Full Funded Scholarship in Commemoration of Her Royal Highness Princess Chulabhorn's 60th Birthday Anniversary, 2021

Granted – Offer was declined – Fulbright Thai Graduate Scholarship (TGS), Thailand 2021

Granted – Offer was declined - Stipend Hungaricum (Hungary Government Scholarship), 2021 Department of Animal Husbandry Engineering, University of Debrecen, Debrecen, Hungary

6 bronze medals, Excellence in Academic Awards, Kasetsart University, Bangkok, Thailand. 2012-2018

His Royal Highness Bhumiphol Scholarship, highest overall GPA, Kasetsart University, Bangkok, Thailand. 2015

Leadership

Global Young Ambassador – Thailand, American Society for Microbiology (ASM) 2025 - 2027

Director of Global Outreach, Association of Asian Veterinary Medical Professionals (AAVMP) 2024 – 2026

Cohort, GRADLEAD - Graduate Student Leadership Development Program Graduate School, University of Georgia Spring 2025

President, Comparative Biomedical Science, Graduate Student Association (CBS-GSA), College of Veterinary Medicine, University of Georgia 2023 - 2024

Co-chair, Application Review Manager, Material Manager ComSciCon-ATL, 2023-2024

External Outreach Committee, International Advisory Board (ISAB), UGA International Student Life (ISL) 08/22 – 08/23

Social Media and Activities Committee, Student Poultry Science Association, U.S.A. 2022 – 2023

Teaching and Academic Work Experience

Graduate Teaching Assistant – VPHY 3107L: Integrative Concepts in Physiology Laboratory, Department of Physiology and Pharmacology, University of Georgia, Fall 2025 – Spring 2026, 3 sections

Weekly laboratory experiments in physiology, including cardiovascular, respiratory, neuromuscular, and sensory systems

Supervisors: Dr. Bryana Bush and Miss. Kimberly freeman

Students (n=36/section: Total students=108)

Athens Veterinary Diagnostic Laboratory (AVDL) - Summer Intern 2025:

Rotated through various sections of the laboratory, including Microbiology, Serology, Pathology **and gain hands on how the diagnostic laboratory works from receiving samples to informing the clients of the result.**

Graduate Teaching Assistant – VPHY 3110: Careers in Biomedical Physiology and Professional Skills, College of Veterinary Medicine, University of Georgia, Spring 2025

Supervisors: Dr. Valerie Eubanks Ryman and Dr. Paul Eubig

Students (n=80)

Graduate Laboratory Assistant – BIOL 1107L: Principles of Biology I Laboratory, Franklin College of Arts and Sciences University of Georgia, Spring 2025

Supervisor: Dr. Kristen Miller

Graduate student mentor: Maiya Callender (PhD Candidate, Spring 2025)

Students (n=21)

Co-mentor with Dr. Catherine Logue, Lillian Guest (Undergrad Microbiology) Identification of heavy metals genes of Avian pathogenic *E. coli* O25-ST131, Spring-Summer 2026

Co-mentor with Dr. Catherine Logue, Alexandra Whitfield (DVM, MAM student) Assessing novel Avian pathogenic *E. coli* serogroups using embryo lethality assay (ELA), Spring-Summer 2025

Co-mentor with Dr. Catherine M. Logue, Kaimya Jones (Undergrad Microbiology) Identification of Avian pathogenic *E. coli*

Co-mentor with Dr. Catherine M. Logue, Stephen Seltzer, (Undergrad Microbiology and CURO Scholar) Serogrouping and virulence of APEC

Co-mentor with Dr. Catherine M. Logue, Margaret Elizabeth Farvo (Undergrad Microbiology) Virulence analysis of APEC

Co-mentor with Dr. Catherine M. Logue, Tristan William Perryman (2023 Georgia Veterinary Scholars Program-GRSV) Pathogenicity traits investigation of APEC in vivo

Teaching Assistant Fall 2022, Laboratory in Bacteriology and Mycology (IDIS 5130), College of Veterinary Medicine, University of Georgia

Scientific Journals Review

The Thai Journal of Veterinary Medicine

Professional Memberships

Member, Veterinary Council of Thailand, Thailand 2018 – present
Member, Thai Poultry Veterinarian Association, Thailand 2018 – present
Member, Thai Veterinarian Animal Feed Medication Association, Thailand 2018 – present
Member, American Association of Avian Pathologists (AAAP) 2022 - present
Member, American Society for Microbiology (ASM) 2022 - present
Poultry Science Association (PSA) 2022 – present
World Poultry Science Association (WPSA) 2022 - present
Member, The National Institute of Antimicrobial Resistance Research and Education (NIAMRRE) 2022 – 2024
Member, Microbiology Society 2024 - present

Research and Teaching interests

Microbiology	Vaccine development
Host-pathogen interaction	Immunology
Molecular microbiology	Education
Molecular pathogenesis	Food safety
Poultry bacterial diseases and poultry food-borne diseases	One Health
Poultry health and medicine	Professional development
Physiology	

Manuscripts Submitted/In Preparation for Refereed Journals

1. **Runcharoon, K.,** Ienes-Lima, J., & Logue, C.M. (2026) Complete genomes of 21 emerging Avian Pathogenic *Escherichia coli* (APEC) isolated from Colibacillosis

cases in Georgia poultry. Microbial Resource Announcement.
doi:10.1128/mra.00186-26

2. **Runcharoon, K.**, Ienes-Lima, J., Y.Y.Tsai., Becerra. R., & Logue, C.M. (2026) Using *in vitro*, *in vivo*, and histopathological analyses to characterize the pathogenicity of novel APEC strains collected from colibacillosis cases from Georgia poultry populations. ASM Animal Microbiology. doi:10.1128/asmam.00011-26
3. **Runcharoon, K.**, Farvo, E. M., Jones, K., Berghaus D. R., & Logue, C.M. (2026) Comprehensive Assessment of Four Different Molecular Genotyping Panels to Characterize Avian Pathogenic *E. coli* (APEC) For Epidemiological Studies. *Letter in Applied Microbiology*. doi: 10.1093/lambio/ovaf134
4. **Runcharoon, K.**, Farvo, E. M., & Logue, C.M. (2025c). The Pathogenicity Traits of Avian Pathogenic *E. coli* (APEC) O25-ST131 Associated with Avian Colibacillosis in Georgia Poultry and their Genotypic and Phenotypic Overlap with other ExPEC. *Journal of Applied Microbiology*. doi:10.1093/jambio/lxaf015
5. **Runcharoon, K.**, Farvo, E. M., & Logue, C.M. (2025b). Longitudinal Analysis of Avian Pathogenic *Escherichia coli* (APEC) Serogroups and Pathotypes from Avian Colibacillosis in Georgia: A Continued Investigation – Year 2 Analysis. *Poultry Science*, 2-104. doi:10.1016/j.psj.2024.104722
6. **Runcharoon, K.**, Garcia, B., Peterson, B. N., Young, M. M., Favro, M. E., Barbieri, N. L., Waltman, D., Flores, B., Dinh, E., & Logue, C. M. (2025a). Longitudinal Study of Avian Pathogenic *Escherichia coli* (APEC) serogroups associated with disease in Georgia poultry using molecular serology and virulence gene analysis. *Avian Pathology*, 1-101. doi:10.1080/03079457.2024.2403414
7. **Runcharoon, K.**, Ienes-Lima, J., & Logue, C.M., (2025) Genomic profiles of novel Avian Pathogenic *Escherichia coli* (APEC) serotypes from Georgia poultry populations and their antimicrobial resistance features. In preparing to submit to Microbial Genomics.
8. Y.Y.Tsai., Ienes-Lima, J., **Runcharoon, K.**, Gottdenker, L. N., Sebastian Pineda, A. D., & Logue, C.M. (2025). Focal Duodenal Necrosis Replication in Layer Chickens Using a Bacterial Mixture in Challenge Experiments. *Avian Disease*. doi:10.1637/aviandiseases-D-24-00069
9. Lima-Ienes, J., Álvarez-Narváez, S., Barbieri-Lima, N., **Runcharoon K.**, and Logue, C.M. (2026). Genome-Wide Association Study of the Type VI Secretion System in Extraintestinal Pathogenic *Escherichia coli*. Submitted to ASM Spectrum 05/2026

Published Abstracts/Proceedings of Meetings (first author)

1. ***Runcharoon, K.,** Ienes-Lima, J., Y.Y.Tsai., Becerra, R., Reyes, V., & Logue, C.M. (2026). Characterizing virulence in emerging APEC isolates using three different challenge models with histopathological analysis. World Poultry Congress (WPC) 2026 submitted 11/2025 accepted as an oral presentation 02/2026 withdrawn due to traveling restriction
***Awarded a Houghton Trust International Travel Grant**
2. ***Runcharoon, K.,** Ienes-Lima, J., Y.Y.Tsai., Becerra, R., & Logue, C.M. (2026). Association of genomic characteristics with virulence of emerging Avian Pathogenic *E. coli* serotypes using High-Throughput Sequencing (HTS) and three animal challenge models. Submitted to AAAP annual meeting 02/2026 present (pending) 07/2026
***Awarded Reed Rumsey Award for Advancement in Avian Medicine**
3. ***Runcharoon, K.,** Ienes-Lima, J., **Farvo, E.M.,** & Logue, C.M. (2026). A genomic exploration of five 'high-risk clone' O25-ST131 Avian Pathogenic *E. coli* (APEC) isolates from colibacillosis cases in Georgia, USA, and their association with human-related *E. coli*. Submitted to ASM Microbe 01/2026 presented 06/2026 (poster)
4. ***Runcharoon, K.,** Whitefield, A., Raccousier, M., Reyes, V., & Logue, C.M. (2025). Using chicken embryos challenge models and histopathological analysis of yolk sacs to elucidate the pathogenicity of novel APEC serogroups. IPPE/SCAD Annual Meeting abstract submitted 11/2025 presented 01/2026 (online oral presentation)
5. ***Runcharoon, K.,** Whitefield, A., Raccousier, M., & Logue, C.M. (2025). Using Embryo Lethality Assay (ELA) to identify virulence traits of "high risk clone" O25 ST131 of Avian Pathogenic *E. coli* (APEC) from colibacillosis cases in Georgia Poultry. Precision One Health (POH) Conference 2025 submitted 09/2025 presented 11/2025 (poster)
6. ***Runcharoon, K.,** Ienes-Lima, J., Farvo, E.M., & Logue, C.M. (2025). Virulence traits and genomic features of Avian Pathogenic *E. coli* (APEC) O25b:H4 ST131 and its association with other ExPEC. The South Carolina Branch of the American Society for Microbiology (SC ASM) Fall 2025 Conference Submitted 08/2025 presented 11/2025 (oral)
7. ***Runcharoon, K.,** Ienes-Lima, J., Y.Y.Tsai., Logue, C.M. (2025). Using animal challenge models to elucidate novel Avian Pathogenic *E. coli* (APEC) serogroups pathogenicity. AAAP Annual Meeting abstract submitted 02/2025 presented 07/2025 (oral)
8. ***Runcharoon, K.,** Ienes-Lima, J., Logue, C.M. (2025). Pathogenicity traits and genomic features of five "High-Risk Clone" O25-ST131 Avian pathogenic *E. coli* (APEC) isolates from colibacillosis cases in Georgia, USA. Submitted to ASM Microbe 01/2025 accepted 03/2025 presented 06/2025 (poster)

9. ***Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2024) Using challenge models to identify pathogenicity traits of novel Avian Pathogenic *E. coli* (APEC) serogroups. Conference of Research Workers in Animal Diseases (CRWAD) Annual Meeting abstract submitted 10/2024 presented 01/2025 (oral)
***Awarded American College of Veterinary Microbiologists Awards (ACVM) Student Presentation Award Oral – 1st place**

10. ***Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2024) Using animal challenge models to elucidate the pathogenicity of novel APEC serogroups. IPPE/SCAD Annual Meeting abstract submitted 11/2024 presented 01/2025 (oral)

11. ***Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2024) Assessment of virulence in novel Avian Pathogenic *Escherichia coli* (APEC) serogroups using *in vitro* and *in vivo* assays. AAAP Annual Meeting 02/2024 presented 07/2024 (poster)
***Awarded A.S. “Rosy” Rosenwald Student Poster Award (Poster presentation)**

12. ***Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2023) Characterizing pathogenicity traits of emerging serogroups of Avian Pathogenic *E. coli* (APEC) using *in vitro* and *in vivo* assays. IPPE/SCAD Annual Meeting abstract submitted 11/2023 presented 01/2024 (oral)
***Awarded C.S. Eidson Student Award for Research Excellence (Oral presentation)**

13. **Runcharoon, K.,** Ienes Lima, J., Tsai, Y-Y., and Logue, C.M. (2023) Assessment of virulence in novel Avian Pathogenic *Escherichia coli* (APEC) serogroups using *in vitro* and *in vivo* assays. Abstract submitted WPDC 11/2023 accepted 1/2024 but withdrawn due to competing commitments

14. **Runcharoon, K.,** Logue, C.M. (2023) Characterization of Avian Pathogenic *E. coli* (APEC) O25b ST131 a “Global High-Risk” clone recovered from avian colibacillosis cases and its potential as a zoonotic pathogen. Global Young Scientists (GYSS) 2024 presented 01/2024 (poster)

15. **Runcharoon, K.,** Young, M.M., Garcia, B., Barbieri, N.L., Logue, C.M. (2023) Characterizing O serogroups and virulence genes of Avian Pathogenic *E. coli* (APEC) associated with colibacillosis in Georgia Poultry. Submitted to ASM Microbe 01/2023 accepted 03/2023

16. **Runcharoon, K.,** Young, M.M., Garcia, B., Barbieri, N.L., Logue, C.M. (2023) Assessing the relationship between O serogroups and virulence gene carriage in Georgia poultry Colibacillosis cases. Abstract submitted AAAP Annual Meeting 02/2023

17. **Runcharoon, K.,** Logue, C.M. (2023) Characterizing antimicrobial resistance (AMR) genes in Avian Pathogenic *E. coli* (APEC) O25/ST131 from Georgia colibacillosis cases. NIAMRRE Annual Meeting abstract submitted 03/2023 accepted 04/2023 presented 05/2023 (poster)

- 18. Runcharoon, K.,** Garcia, B., Logue, C.M., (2023) Characterizing the O Serogroups of Avian Pathogenic *E. coli* (APEC) associated with colibacillosis in Georgia poultry and their Relationship with production types. NCAD/ PEAK – Invited TED Talk (Grad Students) from abstract submission 01/2023.
- 19. Runcharoon, K.,** Young, M.M., Garcia, B., and Logue, C.M. (2022) Characterizing O-Serogroups of Avian Pathogenic *E. coli* (APEC) associated with colibacillosis in Georgia poultry production and their relationship with production types. IPPE/SCAD Annual Meeting abstract submitted 11/2022 presented 01/2023 (oral)
- 20. Runcharoon, K.,** Emami, N., Dalloul, R.A., (2022). Differential analysis of autophagy-related genes in broilers challenged with *Eimeria maxima* with or without *Clostridium perfringens*. Submitted to PSA 04/2022 accepted 05/2023 presented 07/2022 (poster)

Presentations Without Corresponding Abstracts:

1. **Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2024) Using *in vivo* assays to determine the pathogenicity of emerging serogroups of avian pathogenic *E. coli* (APEC) from colibacillosis cases in Georgia. Giguere Science of Veterinary Medicine Symposium Fall 2024
2. **Runcharoon, K.,** Farvo, E. M., Logue, C.M. (2024) Genotype and phenotype analysis of Avian Pathogenic *E. coli* (APEC) O25 ST131 and its association with Uropathogenic *E. coli* (UPEC) A Precision One Health Initiative Symposium Fall 2024
3. **Runcharoon, K.,** Ienes-Lima, J., Y,Y.Tsai., Logue, C.M. (2023) Chicken embryo lethality assay for determining the virulence of emerging serogroups of Avian pathogenic *E. coli* (APEC) in Georgia poultry. Giguere Science of Veterinary Medicine Symposium Fall 2023
4. **Runcharoon, K.,** Young, M.M., Garcia, B., Logue, C.M. (2022) New Emerging O-types of Avian Pathogenic *E. coli* (APEC) in the Georgia Poultry Population Giguere Science of Veterinary Medicine Symposium Fall 2022
5. ***Runcharoon, K.,** Emami, N., Dalloul, R.A., (2022). Differential Analysis of Autophagy-Related Genes in Broilers Challenged with *Eimeria maxima* with or without *Clostridium perfringens*. Poultry Science graduate research forum 2022
***Awarded first place in a student poster presentation**

Invited Scientific or Lay Presentations/Lectures/Invited speaker

1. **Runcharoon, K.**, (2025) GRSC 7200: Teaching and Learning in Collegiate Classrooms “Cultivating a culture of constructive feedback in teaching” – Invited speaker – 10/25
2. **Runcharoon, K.**, (2025) Zoetis Thailand (Poultry technical team) “Avian Pathogenic *E. coli*: Challenges, Solutions, and the Road to Better Protection” – Invited speaker - Online meeting - 04/25
3. **Runcharoon, K.**, (2024) Sirindhorn Science Home – One Day Camp Sharing “Experiences from GYSS 2024” with 87 high school students and 6 teachers. Pratumthani, Bangkok, Thailand – Invited speakers – 08/25
4. **Runcharoon, K.**, Garcia, B., Logue, C.M., (2023) Characterizing the O Serogroups of Avian Pathogenic *E. coli* (APEC) Associated with Colibacillosis in Georgia Poultry and their Relationship with Production Types. NCAD/ PEAK, Minneapolis, Minnesota – Invited TED Talk (Graduate Student). Abstract submitted on 01/23. Presented 04/23.

Presentations at internal meetings/ Vet scholar/ National Vet Scholar Symposium Meetings

1. Perryman, T., **Runcharoon, K.**, Logue, C.M. (2023) Surveillance and Characterization of Avian Pathogenic *E. coli* using molecular serology Giguere Science of Veterinary Medicine Symposium 10/23
2. Perryman, T., **Runcharoon, K.**, and Logue C.M. (2023) Characterization of Avian Pathogenic *E. coli* (APEC) using Molecular Serogrouping and Pathogenicity Assays. CVM Summer Scholars Symposium 08/23 – Oral Presentation.
3. Perryman, T., **Runcharoon, K.**, and Logue C.M. (2023) Characterization of Avian Pathogenic *E. coli* (APEC) using Molecular Serogrouping and Pathogenicity Assays. 2023 Veterinary Scholars Symposium, Costa Rica 08/23 – Poster Presentation.
4. Whitefield, A., **Runcharoon, K.**, Logue C.M., and Raccousier. M. (2025) Assessing the pathogenicity of APEC serogroups from Georgia poultry colibacillosis case through embryo lethality assay (ELA). Emerald Coast Veterinary Conference, Miami, USA 05/25

Service

Senior Division Judge, Georgia Science and Educational Fair (GSEF) 2026

Moderator, Center for Undergraduate Research Opportunities (CURO) Symposium, University of Georgia 2025

Pre-Grad Mentor, Project SHORT, 2024 – Present

Panelist, POPH Graduate Student Peer Mentoring Panel, POPH Graduate Student Workshop and Research Symposium, 2024

Moderator, 60th Annual Veterinary Conference & Alumni Weekend 2024

UGA OGE Scholarship Committee, UGA Global Engagement, Spring 2023 - present,

Judge, State 4-H Congress Presentation Competition, Atlanta, Georgia, 2023 – **2025**

Outreach and Community Engagement

1. **Panelist at ASM Microbe 2026, Washington D.C.** The session of International Science Education Showcase: tips and Tools from Around the World.
“Global Minds, Local Hands: Virtual Mentorship and Case-Based Learning as a Spark for Microbiology Literacy”
2. **Moderator as ASM young ambassador** – Tips on how to keep students of all ages engaged and stay curious in science classes Webinar
Speaker Dr. Naowarat Cheeptham, PhD, Professor, Thompson Rivers University, JMBE Editor
The collaboration project between National Science and Technology Development Agency (NTSDA) and ASM
Attendees: Attendees: 300 Thai educators and students
3. **Guest speaker as a ASM young ambassador** – ASM Microbe 2026, Washington D.C. - International Science Education Fair “Global minds, local hands: Virtual mentorship and case-based learning as a spark for microbiology literacy” pending 06/2026
4. **Guest speaker as a ASM young ambassador** - Sirindhorn Science Home – One Day Camp Sharing “The Good, the Bad, and the Tiny: Rethinking Food Safety and the Microbiome” 01/26
Attendee: 6 high school students and 4 teachers
5. **Guest speaker as a ASM young ambassador** – Science Inspires Future: Discovering Science – Little Heros in a Big World Changing Our Health Webinar. 08/25. The collaboration project between National Science and Technology Development Agency (NTSDA) and ASM
What is microbiology and who are microbiologists?
Attendees: 150 Thai High school students and teacher

6. **Moderator as a ASM young ambassador** - Science Inspires Future: Microbiome for All project Webinar. 08/25. The collaboration project between National Science and Technology Development Agency (NTSDA) and ASM
Speaker: Dr. Davida Smyth, Professor, PhD
Attendees: Attendees: 100 Thai High school students and teacher
7. **Guest speaker – SHORT Talks: The official Project SHORT Podcast “Being an international PhD Student in the US”** [Spotify](https://open.spotify.com/episode/0GwxI7ZHknnVpQMgFgeW7t?si=6d8ddb81b39d4ff4) - <https://open.spotify.com/episode/0GwxI7ZHknnVpQMgFgeW7t?si=6d8ddb81b39d4ff4>
8. **Participant** in “Science Communication Training” ComSciCon-ATL, Atlanta, 2023

Grant awards/ Travel awards

1. **Reed Rumsey Student Award for Advancement in Avian Medicine**, American Association of Avian Pathologists (AAAP) 2026 – \$1,500
2. **The Burroughs Wellcome Fund** – Becoming Faculty Workshop, College of Veterinary Medicine, North Carolina State University, July 2026 – Travel award
3. **American Society of Microbiology (ASM) - Young Ambassador Project** Fund (YAPF), 2025 - \$1,200
4. **World Poultry Science Association (WPSA) – PhD Student Research Support** Scholarship, 2025 - \$2,000
5. **Houghton Trust International Travel Grant**, 2025 - \$868
6. **Graduate School, University of Georgia, Graduate Student Domestic Travel**, Fall 2025 - \$400

Continuing Education

Cohort – The Burroughs Wellcome Fund – Becoming Faculty Workshop, College of Veterinary Medicine, North Carolina State University, July 2026

Certificate in Diversity and Inclusion – Office of Inclusive Excellence, University of Georgia, 2024

Gradtech Certificate – Center for Teaching and Learning, University of Georgia, 2023

Participant in Fall 2022 CIRTl Network MOOC Community Learning, An Introduction to Evidence-Based Undergraduate STEM Teaching, with distinction.

Cohort, 2023 NIAMRRE One Health Interprofessional education (IPE) program
January – April 2023

REMnet – Research Experience for Microbiomes Network
***(Travel award for attending REMNet summer workshop 2024)**