

EDUCATION

- **Post-Doctoral.** Muscle Biology and Meat Science. Kansas State University 2016
- **Ph.D.** Animal Sciences. Texas A&M University. 2015
- **M.S.** Animal Sciences. Prairie View A&M University. 2012
- **B.S.** Agriculture. Prairie View A&M University. 2010

PROFESSIONAL EXPERIENCE

Houston Community College – Department of Biology, (2018- Present)

Full-time Biology Professor, Division of Natural Sciences (100% Teaching)

- Facilitator and lecturer for Biology I and II courses, regular-term, dual-credit, and online modalities.
- Developed and successfully implemented several active learning strategies in Biology courses that encourage student collaboration and can be incorporated into different delivery modalities.
- 2022 WHI Innovation fellow: Tasked with cultivating the mindsets and skill sets required to bring about innovation in higher education today.
- LSAMP Co-Research Advisor -Preparing students for future educational experiences by encouraging them to pursue research opportunities and persevere with challenging tasks.
- Collaborator on NSF Grant: Louis Stokes B2B Alliance: Harris County Community College Alliance (HCCCA)
- Co-host “Active Learning for Busy Skeptics and True Believers Workshop” with researchers from various institutions on an NSF-funded CAREER project entitled "The Developing Knowledge Project"
- Serve as an advocate and voice for HCC biology faculty members within the department as a senator in the Faculty Senate.
- Exhibit leadership by serving as Committee Chair on the 1106 Lab Manual Adoption and Grade Appeal Committee
- First professor in the HCC NW region to incorporate VR instructional technology in the classroom.
- Presenter of “Active Learning: 101” at the 2020 HCC Faculty Conference.
- Bloom’s Taxonomy “Certificate of Learning Innovation”.
- Mentored biology faculty for COVID -19 conversion from face to face to online modality.
- Participate in departmental and institutional committees, faculty training sessions and other events to positively contribute to the HCC learning community.
- Participant in Adjunct Academy and Center for Teaching & Learning Excellence

San Jacinto College – Department of Biology, (2019 – 2021)

Adjunct Biology Professor, Division of Life Sciences (100% Teaching)

- Facilitator and lecturer for Gen. Biology for Science Majors I lecture and lab sections, including syllabus preparation, test construction and grade assessment.
- Incorporates in class “active learning” techniques that increase student engagement.
- Provide leadership and guidance to students that aim at promoting student success in and outside the classroom.
- Attentively review students’ progress and provide advising when and where necessary.

- Contributes actively to departmental goals and works effectively with colleagues.
- Ongoing professional development, registered in PTF Teaching and Learning Conference
- Blackboard and Cengage Trained

Kansas State University–College of Agriculture, (2016 – 2017)

Interim Diversity Programs Coordinator, Diversity Programs Office. (20% Teaching, 30% Advising, 50% Admin)

- Effectively oversaw an office of 3 employees with the responsibility of staffing, fiscal management, and program development and implementation.
- Established a track record of implementing successful student programs that promoted college readiness, multicultural recruitment/retention, research, and career placement.
- Managed grants and scholarships, travel expenses and monthly reconciliations.
- Collected, processed, analyzed, and presented data pertaining to college demographics, student retention and graduation rates.
- Revamped the K-State Research and Multicultural Fellowship by introducing “Tea Talks”, team building exercises; increased acceptance rate of internship participants by 30%.
- Developed and instituted a successful 6-six-week summer program under constraints of an atypical deadline.
- Elected to sit on several key committees, including three faculty search committees and KSU Louis Stokes Alliance for Minority Participation NSF grant
- Provided university community with annual reports that included information about the progress towards university goals, enrollment and retention data, achievement and graduation patterns and significant programs and activities.
- Maintained strategic relationships with the community, corporate donors, industry, regional and national organizations focused on diversity and multicultural affairs.

US Department of Agriculture–Agriculture Marketing Service, (Sum 2008 & 2009)

Commodity Grader- Intern, Meat Grading and Certification Branch

- Received USDA government certification in meat grading.
- Assessed, evaluated, and applied official standards and regulations to determine product's grade on Beef, Lamb, and Veal carcasses.
- Monitored plant and processing operations to assure the plant remained in compliance with USDA regulations.
- Performed audits to assure compliance with the Child Nutrition labeling program.
- Prepared and maintained a variety of reports and records related to plant production data, grading results and certificates issued

COURSES TAUGHT

Houston Community College – Department of Natural Sciences

- BIOL 1306 General Biology for Science Majors I - Lecture
- BIOL 1106 General Biology for Science Majors I - Lab
- BIOL 1407 General Biology for Science Majors II - Lecture and Lab
- BIOL 1308 General Biology for Non-Science Majors I
- BIOL 1309 General Biology for Non-Science Majors II
- BIOL 2301 Anatomy and Physiology - Lecture

- BIOL 2102 Anatomy and Physiology - Lab

San Jacinto College

- BIOL1306 General Biology for Science Majors I - Lecture
- BIOL1106 General Biology for Science Majors I – Lab
- BIOL1307 General Biology for Science Majors II - Lecture
- BIOL1107 General Biology for Science Majors II - Lecture
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Kansas State University – Department of Animal Science and Industry (2015-2016)

- ASI 658 Principles of Growth and Development
Recurring lecturer on Growth and Development of Adipose Tissue in Livestock Animals
- ASI 930 Advanced Meat Science
Responsible for the Adipose Tissue section of the course with emphasis on “The Influence of Adipose Tissue on Meat Quality”
- GenAg210 Human and Cultural Diversity in the Food and Agricultural Sciences
Guest lecturer on the concepts of diversity by learning about cultural awareness, issues and the contributions made by different ethnic groups to the field of agriculture.

Texas A&M University – Department of Animal Science (2012-2015)

- ANSC/NUTR 618 Lipids and Lipid Metabolism: A course designed provide an understanding of the role of lipid metabolism in normal and dysfunctional growth and metabolism.
Teaching Assistant
- ANSC/FSTC 607 Physiology of Biochemistry of Muscle as Food: A course designed to introduce muscle metabolism both antemortem and postmortem.
Teaching Assistant

TEACHING SKILLS

- Self-motivation, initiative with a high level of energy.
- Able to inspire, comfort, build self-esteem.
- Ability to read, analyze and interpret periodicals, professional journals, technical procedures, and governing body regulations.
- Adapt to handling a diversity of details to make informed and responsive decisions on matters that impact the faculty and students.
- Proficiency in the use of technology in the delivery of education.

RESEARCH EXPERIENCE

Kansas State University–Department of Animal Sciences and Industry, (2015-2016)

Post-Doctoral Research Associate, Muscle Biology and Meat Chemistry Laboratory.

(50% Research, 50% Teaching)

- Responsibilities include conducting Muscle Biology and Meat Science research focusing on various aspects of muscle biology in beef cattle and swine.
- Implemented new lipid biochemical extraction techniques, which led to improved accuracy and repeatability.

- Involved in developing an adipose tissue biology component to complement the muscle biology group at Kansas State University.
- Grantsmanship to secure extramural funding for adipose and muscle related research projects.
- Collaboration with ruminant nutrition, swine nutrition, swine physiology and meat science groups for comprehensive, interdisciplinary studies.
- Responsible for managing the day-to-day operation of the muscle biology and meat chemistry laboratory.
- Publication of data generated from research projects in peer-reviewed journals.

Texas A&M University–Department of Animal Science, College Station, TX (2012-2015)
Graduate Research Assistant/Lab Manager – Lipid Biochemistry, Dr. Stephen B. Smith
(90 % Research, 20% Teaching)

- Assessed the actual metabolic effects of glucose, acetate, and propionate on fat accumulation in growing beef cattle.
- Established relationships between marbling scores, fatty acid composition, and juiciness of beef.
- Analyzed pentose phosphate enzymatic activity and fatty acid composition in subcutaneous and intramuscular adipose tissue.
- Conducted a beef study to determine if lean and fat trims of brisket, flank, and plate primals can be used to formulate ground beef with unique fatty acid and sensory characteristics.
- The goal of these projects and ultimately of our laboratory was to elucidate the metabolic efficiency in beef cattle to increase deposition of intramuscular adipose tissue without increasing subcutaneous adipose tissue and negatively affecting meat quality.
- Trained new lab personnel in basic and advanced techniques, including PhD students and student workers.
- Assisted with preparing and writing grant proposals for external funding.
- Carried out written publications in peer- reviewed journals and multiple presentations.

Prairie View A&M University–Department of Animal Science, Prairie View, TX (2010-2012)
Graduate Research Assistant – Nutritional Biochemistry, Dr. Velva McWhinney
(100 % Research)

- Evaluated the effects of unprotected fresh or oxidized corn oil on pork quality, fatty acid composition and shelf-life of skeletal muscle of finishing pigs.
- In an era where obesity and metabolic diseases have reached pandemic proportions, finding an animal protein with beneficial effects in the diet, such as prevention of cardiovascular disease is the subject of intense research efforts. The goal of this project was to determine if sunflower containing high levels of UFAs and may lead to healthier and palatable products for consumers.
- Developed and implemented laboratory safety protocol.
- Self- taught operation and maintenance of Varian Gas Chromatograph equipment.

LABORATORY SKILLS

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|------------------------|-----------------------|
| • Immunohistochemistry | • Enzyme Assays |
| • Tissue Culture | • Gel Electrophoresis |
| • RT-PCR | • Mass Spectrometry |

- Western Blotting
- Microscopy
- Protein Purification
- UV-Vis Spectroscopy
- Gas Chromatography
- Extractions and Methylation

STUDY ABOARD

Texas A&M Greece Leadership Theory –Thessaloniki, Greece (2014)

- Program focused on personal leadership development in the context of Greek culture. I was afforded an opportunity to explore the evolution of leadership theory while gaining a broader perspective of European agriculture and culture through interaction with our various hosts, including the American Farm School and Dimitris Perrotis College.

LEADERSHIP AND COMMITTEES

Houston Community College – Louis Stokes Alliance for Majority Participation (2021- Present) *Community of Research Advisor*

- Expose HCC LSAMP scholars to current research in their respective STEM disciplines. This is accomplished through a combination of research seminars, poster presentations, meet and greets and summer research internships.

Houston Community College – Faculty Senate (2021 - Present) *Biology Department Senator*

- Responsible for maintaining communications between biology faculties, Faculty Senate association and Instructional Division meetings.

Houston Community College – General Biology Subcommittee (2020- Present) *Committee Member*

- Contribute to the teaching mission of HCC by providing advice and support on teaching-related and student-related issues in our general biology courses

Houston Community College – Grade Appeal Committee (2021) *Chair*

- Selected by Dean Mohammed Tlass to serve on a departmental grade appeal committee, volunteered to serve as the committee chair.

Houston Community College – 1106 Lab Manual Adoptions (2021) *Chair*

- Designated by Associate Chairs Drs. Shadi Kilani and C. Opara to chair the 2021 "1106 Biology for Science Majors- Lab" Lab Adoption Committee.

Houston Community College – HCC Rigor Institute Committee (2021) *Committee Member*

- Committee developed by the Associate Vice Chancellor for Academic Instruction and Dean for Mathematics to help plan and organize the 2021 HCC Rigor Summit.

Houston Community College – 1306 and 1308 Master Course Canvas Shell (2021) *Committee Member*

- Departmental collaboration project to develop a Canvas master/template course for Science and Non-Science Majors I. These projects were implemented to aid incoming and current faculty.

Houston Community College – Primary Literature Reading Workshop (2021)

Committee Member

- Developed and implanted scientific literature workshops for students participating in summer research experiences for undergraduates.

Houston Community College – 1306 and 1308 Master Course Canvas Shell (2021)

Committee Member

- Departmental collaboration project to develop a Canvas master/template course for Science and Non-Science Majors I. These projects were implemented to aid incoming and current faculty.

Houston Community College - Excellence in Academic Advising Project (2020)

Committee Member

- This project provides Houston Community College with an opportunity to conduct a holistic self-study on academic advising at HCC.

Kansas State University–College of Agriculture (2016-2017)

College of Agriculture Director for Project Impact

- Developed rapport with students to ensure their needs were met by recognizing passions/issues and researching appropriate solutions for continued success.
- Recruited and retained underrepresented minorities into STEM disciplines and aided them towards graduation, 90% retention rate.

Kansas State University–Minorities in Agriculture Natural Resources and Related Sciences (2015-2017)

Co-Advisor

- Equipped students for leadership roles through mentoring, networking, and career development training by promoting academics and providing professional advisement, increased participation by 40%.

Kansas State University–Pinky Promise (2017)

Advisor

- Encouraged women to honor God with their life and body.
- Promoted sisterhood, accountability, and community service

Kansas State–University Black Faculty Staff and Alliance (2016-2017)

Programs and Events Chair

- Programmed social events and seminars that promoted campus-wide inclusion, 80% average attendance rate.
- Developed and instituted the “Teapots with Character Women of Color Workshop”.

Texas A&M University Graduate and Professional Student Council (2013-2014)

Programming Committee Chair

- Served as a voice of and represent all graduate and professional students of Texas A&M University.
- Coordinated programs that fostered community and fellowship among the graduate students at Texas A&M University

UFM-University for Mankind (2016-2017)

Executive Board Member

- Served on the executive board collaborating ideas to help implement programs and classes to bridge communication between the K-State campus community and the Manhattan community.

Kansas State University-Louis Stokes Alliance for Minority Participation (2016-2017)

Executive Committee Member

- Collaborated on the \$2.5-million-dollar K-State Louis Stokes Alliances for Minority Participation program of the National Science Foundation
- Worked in partnership on projects that included specialized activities at critical junctures in the pathway, such as two-year to four-year institutions; overall goal to increase number of minorities graduating in STEM fields.

SEARCH COMMITTEES

- K-State Student Alumni Board, **Selection Committee**, Spring 2017
- K-State Office for the Advancement of Women in Science and Engineering, **Award Screening Committee**, Spring 2017
- K-State Research Immersion: Pathways to STEM, **Selection Committee**, Spring 2017 and Fall 2016
- K-State Faculty Search Committee, **Coordinator Selection**, Spring 2015
- K-State Faculty Search Committee, **Program Assistant Selection**, Fall 2016
- K-State Faculty Search Committee, **Dean of Agriculture Academic Programs Selection**, Fall 2016

CERTIFICATIONS AND TRAININGS

Certifications:

- Learning and Innovation Certification (2019)
- Online Teaching – Canvas LMS (2019)
- Hazard Analysis Critical Control Points Certification (2014)
- Bio-safety Lab 2 Certification (2012)
- USDA Government Meat Grading Certification (2008)

Trainings:

- Remote: The Connected Faculty Summit (2020)
 - Forum to identify and promote the best possible pedagogy, techniques and tools by faculty for online and blended learning and to help faculty design the most engaging experience for learners.
- Dual Credit Rigor Institute (2019)

- Training centered on best practices and resources to utilize in the classroom for students enrolled in dual-credit courses.
- Staying Motivated: Engaging Your Students Through Active Learning (2019)
 - Adopted student-centered approaches to increase opportunities for student engagement, that aid in successfully achieving my course's learning objectives.
- Bloom's Student Engagement Series
 - Acquired knowledge to appropriately select and apply Bloom's Taxonomy principles to communicate content and activities clearly.
- Michael Tilford Annual Conference on Diversity and Multiculturalism (2017)
 - Obtained knowledge and skills to promote equity and awareness at an institution of higher education.
- Intercultural Development Inventory (2017)
 - Gained a better understanding on how I make sense of cultural differences and increased my skills in shifting cultural perspective and adapting behavior.
- NACADA National Academic Advising Association (2016, 2017)
 - Attend sessions and participated in discourse about the research, theory and practice of academic advising in higher education.

PUBLICATIONS

- **2021-** Blackmon, T. L., Josiam, M., Andrew, M., Chasen, A., Borrego, M., Prince, M., Husman, J. and Finelli, C., (In Review). Reducing Students' Resistance to Active Learning in Community College Biology Courses: Implementation of Effective Strategies, *CBE—Life Sciences Education*
- **2018-** Smith, S. B., Blackmon, T. L., Sawyer, J. E., Miller, R. K., Baber, J. R., Morrill, J. C., Cabral, A. R., Wickersham, T. A. (2018). Glucose and acetate metabolism in bovine intramuscular and subcutaneous adipose tissues from steers infused with glucose, propionate, or acetate, *J. Anim Sci*, 93, 921-929
- **2017-** Anderson, R.C., Blackmon, T.L., Miller, R. K., and Smith, S.B., (2015). Relationships between fatty acid composition, trained panel descriptors, and volatile aroma compounds of ground beef patties of brisket, flank and plate with 10, 20, and 30% total fat, *J. Anim Sci*, 95, 183
- **2016-** Phelps, K.J., Drouillard, J.S., O'Quinn, T.G., Burnett, D.D., Blackmon, T.L., Axman, J.E., Bibber-Krueger, C.V., and Gonzalez, J.M. (2016). Feeding microalgae meal (All-G rich™; Schizochytrium limacinum CCAP 4087/2) to beef heifers. I: Effects on longissimus lumborum steak color and palatability, *J. Anim Sci*, 94, 4016-4029
- **2016-** Phelps, K.J., Drouillard, J.S., O'Quinn, T.G., Burnett, D.D., Blackmon, T.L., Axman, J.E., Bibber-Krueger, C.V., and Gonzalez, J.M. (2016). Feeding microalgae meal (All-G rich™; Schizochytrium limacinum CCAP 4067/2) to beef heifers. II: Effects on ground beef color and palatability, *J. Anim Sci*, 94, 4030-4039
- **2016-** Blackmon, T. L., Baber, J.C., Morrill, J. C., Wickersham, T. A., Sawyer, J. E., Miller, R. K., Smith, S. B., (2016). Ruminal acetate infusion increased marbling scores and flavor attributes of beef relative to beef from abomasal or ruminal glucose-infused steers, *J. Anim Sci*, 112, 172-173
- **2015-** Blackmon, T.L., Miller, R. K., Kerth, C.R., and Smith, S.B. (2015). Ground beef patties prepared from brisket, flank and plate have unique fatty acid and sensory characteristics, *Meat Science*, 103, 46-53

- **2015-** Blackmon, T.L., Smith, S.B., Kerth, C.R., and Miller, R. K. (2015). Producing premium grinds with brisket trimmings, *Meat Science*, 101, 136

CONFERENCES, SYMPOSIUMS AND PROFESSIONAL TALKS

- **2021** (October). *NSF-funded CAREER project called The Developing Knowledge Project*” **Professional Workshop**. “Active Learning for Busy Skeptics and True Believers”. Online workshop introduced participants to quick and simple active learning techniques that have been shown to be effective in STEM courses and that require little preparation or class time. In addition, it provided instructors with guidance and practice using research-based strategies that have been shown to reduce student resistance to active learning
- **2020** (March). *Houston Community College Faculty Conference*. **Professional Workshop**: “Active Learning: 101” This workshop was designed to help faculty who have little to no experience teaching in an active learning classroom and helped prepare for them for the transition.
- **2017** (February). *Black Student Union Statewide Leadership Conference*. **Professional Talk**: “The More Confident YOU!” This talk provided strategies for speaking with clarity and confidence.
- **2015** (June). *AMSA Reciprocal Meat Conference*. **Poster Title**: Blackmon TB, Wickersham TA, Sawyer JE, Miller RK, Baber J, Smith SB. Ruminant Acetate Infusion Increased Marbling Scores and Flavor Attributes of Beef from Abomasal or Ruminant Glucose-Infused Steers.
- **2015** (July). *ASAS Joint Annual Meeting*. **Poster Title**: Blackmon TB, Wickersham TA, Sawyer JE, Miller RK, Baber J, Smith SB. Abomasal infusion of glucose increases intramuscular lipid content and acetate incorporation into fatty acids in subcutaneous adipose tissue relative to ruminal acetate infusion.
- **2014** (June). *Reciprocal Meat Conference*. **Poster Title**: Blackmon TB, Miller RK, Kerth C, Smith SB. Producing Premium Ground Beef Trim.
- **2013**(March). *Houston Livestock Show and Rodeo*. **Professional Talk** on “Agricultural Commodities from the field to the plate”. This talk aimed to increase awareness about agricultural production systems.
- **2013** (July). *Experimental Biology Symposium**placed 3rd*. **Poster Title**: Blackmon TB, McWhinney VJ. The Effects of Dietary Oxidized and Non- Oxidized Sunflower Oil on Quality and Fatty Acid Composition of meat cuts from finishing pigs.
- **2012** (Feb). Attended **International Conference** on AOCS Latin American Congress and Exhibition on Fats and Oils, at Cartagena, Colombia.

PROFESSIONAL AFFILIATIONS

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| • Association for Women in Science Gulf Coast | Member (2017 – Present) |
| • National Association for the Advancement of Colored People | Member (2017 – Present) |
| • Minorities in Agriculture and Natural Resources and Related Sciences | Member (2007 – 2019) |

Terri L. Blackmon

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- American Meat Science Association
- Gamma Sigma Delta, Honor Society of Agriculture
- American Society of Animal Science
- Alpha Tau Alpha, Honorary
Agricultural Education Fraternity

Member (2012 – 2018)

Member (2012 – 2016)

Member (2010 – 2015)

Member (2010 – 2012)