

Govind Kannan, B.V.Sc., Ph.D.

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EDUCATION**Ph. D. (Poultry Science)**

University of Maryland, College Park, MD.

Research Focus: Animal Welfare and Product Quality

M. V. Sc. (Master of Veterinary Science) in Meat Science

Madras Veterinary College, Tamil Nadu Agricultural University, India.

B. V. Sc. (Bachelor of Veterinary Science, Equivalent to D.V.M.)

Madras Veterinary College, Tamil Nadu Agricultural University, India.

PROFESSIONAL EXPERIENCE

2024-present	Professor (tenured) and Head & Executive Director, Charles C. Miller, Jr. Poultry Research and Education Center <i>Department of Poultry Science, Auburn University, Auburn, AL</i>
2019-2024	Vice President for Land-Grant Affairs and Economic Development <i>Fort Valley State University, Fort Valley, GA (FVSU)</i>
2010-2018	Dean and Director, College of Agriculture, Family Sciences and Technology (CAFST), FVSU (Jan-June 2014 - Interim Provost and Vice President for Academic Affairs, FVSU)
2008-2024	Professor of Animal Science, FVSU
2008-2010	Assistant Dean for Research, FVSU
2003-2007	Associate Professor of Animal Science, FVSU (secured tenure in 2003)
2003-2007	Director, Georgia Small Ruminant Research and Extension Center
2003-2009	Coordinator, Animal Science Undergraduate and Graduate Programs
1997-2002	Assistant Professor of Animal Science, FVSU
1996-1997	Postdoctoral Research Associate <i>Department of Animal Science, University of California at Davis, CA</i>

Professor and Head & Executive Director, Charles C. Miller, Jr. Poultry Research and Education Center, Auburn University

- Led efforts to implement a service center at the Miller Center.

- Provided leadership in developing and submitting the Department of Poultry Science's self-study report and successfully completed the Academic Program Review (APR).
- Provided leadership for comprehensive curriculum revision as a follow-up to the APR Site Visit Report.
- Led the department's strategic planning process and implemented the plan.
- Reestablished the Industry Advisory Council, appointed new members, conducted meetings, and sought input on the department's curricula, strategic plan, and research and extension agenda.
- Established a partnership with the Alabama Poultry and Egg Association to engage industry leaders in student recruitment activities.
- Represented the College of Agriculture on a trip to India to explore partnerships with Agriculture, Horticulture, and Veterinary universities, an effort led by the Graduate Dean.
- Initiated a digital campaign to increase prospective student outreach and undergraduate enrollment.
- Played a key role with the College of Agriculture's Director of Development in securing industry support for adding new feed bins and hatchery machines at the Miller Center (~\$400,000).
- Completed the process of hiring three research faculty members and initiated searches for 3 tenure-track faculty positions.
- Led a working group to develop action items and KPIs for one of the strategic goals of the College of Agriculture.
- Appointed to serve on the Search Advisory Committee for the Interim Dean of the College of Agriculture and Director of the Alabama Agricultural Experiment Station.
- Appointed to serve on the Search Committee for the Head of the Department of Pathobiology, College of Veterinary Medicine.

Vice President for Land-Grant Affairs and Economic Development, FVSU

- Secured \$800K to establish a mobile precision agriculture lab from 21st Century Partnership (funded by EDA).
- Played a lead role in securing \$500K funding from Chevron and MIT Fab Foundation to

establish a FabLab to train students on digital fabrication, innovation, and entrepreneurship.

- Led efforts to secure more than \$8M in Congressionally Directed Spending (CDS) funds in 2021 to support FVSU's academic and outreach programs.
- Led efforts to establish a poultry instructional program at FVSU in partnership with the University of Georgia. Secured \$2M CDS funding in partnership with the University of Georgia.
- Played a key role in securing a \$3M NTIA grant to enhance digital equity in Fort Valley and surrounding communities in partnership with Microsoft.
- Served on FVSU Strategic Planning Taskforce. Provided leadership to the Engagement and Collaboration Strategic Priority Subcommittee and chaired an Implementation Leaders Group.
- Established the FVSU Economic Development Taskforce and chaired the group.
- Secured funding and completed the groundwork for USG-BOR's Integrated Project Review for renovating a historic building to establish the proposed FVSU Center for Agricultural Innovation and Entrepreneurship.
- Played a key role in establishing the Center for Ultrastructure Research, which comprises TEM and SEM Labs.
- Led student innovation entrepreneurship efforts and mentored a team of inventors that participated in the Georgia InVenture Prize Competition 2019 (won first prize in the state and the InVenture Cup).
- Led the institution's efforts in establishing several partnerships with industry, NGOs, and USDA-ARS Labs that resulted in multiple funding, research collaboration, and student training opportunities.
- Provided overall leadership for the FVSU Office of Sponsored Program and brought about several changes to enhance its efficiency. Increased the institution's sponsored research funding by 25%.
- Secured budget for establishing the basic infrastructure for handling intellectual property and technology transfer issues to encourage and facilitate faculty innovation and entrepreneurship activities.
- Participated actively in the Middle Georgia Innovation Project to promote STEM student

development opportunities, technology partnerships, and regional economic development.

- Led the Academic Affairs Workgroup in developing policies and procedures for campus reopening during the pandemic.

Dean and Research Director, College of Agriculture, Family Sciences and Technology, FVSU

- Secured (collaboratively) more than \$17 M in grants to improve/renovate existing facilities and construct new buildings.
- Successfully completed two construction projects that enhance FVSU's teaching, research, and extension programs, totaling approximately \$7.5 M.
- Managed the College's annual research, instruction, and cooperative extension budget of more than \$20 M efficiently.
- Significantly contributed to the institution's fundraising efforts by showcasing the College's accomplishments and capabilities, and the impacts created by applied agricultural research and cooperative extension in the state and region.
- Significantly increased the College's funding by securing a dollar-to-dollar state match for the federal formula funds received and encouraging faculty members to seek grant opportunities in addition to the 1890 Capacity Building Grants.
- Established the Office of International Agriculture to streamline and facilitate international educational, research, and outreach activities of faculties and enhance funding for international programs (see examples below). Created the position of the Director for managing the Office of International Agriculture.
 - The College conducted educational and outreach activities in several countries, including Myanmar, Haiti, the Dominican Republic, Peru, Argentina, Mexico, Mongolia, South Korea, and the Philippines.
 - The College established a study abroad program and student exchange program with Universidad Nacional de Agricultura, Catacamas, Honduras. The College received a USDA-NIFA grant for this project.
 - The College established collaboration with Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh, to assist subsistence farmers in Bangladesh with a soybean-incorporated cropping system, a project supported by a USDA-FAS grant.

- The College implemented the International Summer Experience in Agricultural and Related Sciences Program with the Federal University of Roraima and the National Institute of Amazonia Research in Brazil for undergraduate students.
- The College secured funding from USDA-APHIS to establish an experiential learning program for veterinary science students in Botswana and South Africa.
- The College secured an external grant for student exchange and research collaboration with the National Institute of Science and Technology for Tropical Fruits (INCT-Frutas Tropicais), Brazil.
- The College hosted faculty members from the Philippines, Kenya, South Africa, and Bulgaria under the Cochran Fellowship Program.
- Enhanced international collaborations at the Georgia Small Ruminant Research and Extension Center with countries in Africa, Asia, Europe, and Central and South America.
- Played a key role in establishing several formal Articulation Agreements/Memoranda of Understanding/Partnerships with institutions abroad:
 - Federal University of Technology, Akure, Nigeria
 - University of West Indies, Trinidad and Tobago
 - University of Guyana, Guyana
 - Universidad Nacional de Agricultura, Catacamas, Honduras
 - Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh
 - University of Pretoria, South Africa
 - Barbados Community College, Barbados (in progress)
 - Mongolia Huree University (in progress)
 - Botswana University of Agriculture and Natural Resources (in progress)
- Established the Peace Corps Prep Program in partnership with the National Peace Corps to better prepare graduates for becoming Peace Corps Volunteers.
- Played a key role in establishing formal Articulation Agreements/Memoranda of Understanding/Partnerships with several institutions within the state:
 - Central Georgia Technical College, Macon, Georgia
 - Albany Technical College, Albany, Georgia
 - Georgia Military College, Georgia
 - Abraham Baldwin Agricultural College, Tifton, Georgia (in progress)
- Provided leadership to secure reaccreditation of the College's academic programs by the

American Association of Family and Consumer Sciences (AAFCS), American Veterinary Medical Association (AVMA), Accreditation Board for Engineering and Technology (ABET), National Council for Accreditation of Teacher Education (NCATE), in addition to Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

- Provided leadership to secure accreditation of the College's Master of Public Health Program by the Environmental Health Accreditation Council.
- Reorganized the College to improve the efficiency of academic, research, and outreach programs.
- Conducted a comprehensive program review for the College.
- Installed graduate student research assistantships through Evans-Allen Projects to enhance graduate student enrollment and retention.
- Provided leadership in developing four academic program proposals, including two Ph.D. proposals.
- Implemented the Bachelor of Science in Food Science Program.
- Recruited several high-caliber faculty and staff members.
- Provided overall leadership to the College's research, outreach, and academic programs.
- Appointed the members of the Council for Agricultural Research, Extension, and Teaching (CARET) every year to represent FVSU.
- FVSU's national ranking in graduating African American students in Ag disciplines advanced from 25th to 6th under my leadership.
- FVSU ranked first among the 1890 Land-Grant Institutions in 2014 in acquiring intellectual property rights (by Ag faculty). FVSU received an APLU award.
- Increased the College of Ag student enrollment to ~600 students in Fall 2015, a 25% increase from Fall 2014.
- Developed a three-year recruitment plan for the College to achieve enrollment goals.

Interim Provost and Vice President for Academic Affairs, FVSU

- Initiated and supervised FVSU's eMajor Affiliation, which was approved by the Board of Regents. Program implementation began in Fall 2014.

- Followed a shared governance model and worked closely with the Faculty Senate.
- Reorganized the Counseling Department.
- Reorganized the College of Graduate Studies and Extended Education.
- Established and charged Search Committees for two dean positions (Dean, College of Arts and Sciences & Dean, College of Graduate Studies and Extended Education). The searches were successfully completed, and the new deans came on board in July-August 2014.
- Named an interim head for the Department of History, Geography, Political Science, and Criminal Justice.
- Successfully completed review of low-producing academic programs. At the end of the process, one undergraduate program was terminated, and a few graduate and undergraduate programs were deactivated. Proposal development was begun for new programs and the reengineering of selected underperforming programs.
- Completed promotion and tenure process successfully. Implemented the electronic (SharePoint) portfolio submission process.
- Revised the faculty summer teaching compensation formula.
- Visited Guyana and Trinidad with the FVSU President to establish collaborations in academic, research, and extension areas. MOUs have been signed subsequently with the University of Guyana and the University of West Indies, Trinidad and Tobago.
- Played a lead role in FVSU's signing an MOU with Georgia Military College (GMC) that allows the transfer of students from GMC to FVSU after two years.
- Established the Academic Advisement Center.
- Completed the FY15 Budget Reduction Plan for Academic Affairs.
- Conducted searches to fill faculty positions identified as critical needs for the Academic Affairs Division.
- Completed part-time faculty cost estimates for Spring 2014.
- Continued to revise faculty contracts to be in line with Board of Regents policies.

- Interacted (both as Interim Provost and VPAA and as the Dean, College of Ag) with US and State legislators, community leaders, mayors, city council members, county commissioners, officials from the Department of Corrections and local law enforcement offices, leaders of chambers of commerce, Commander of Robins Air Force Base, and industry leaders to build partnerships and promote FVSU's academic, research, and outreach programs.

Interim Assistant Dean for Research, CAFST, FVSU

- Established a Scanning Electron Microscopy Lab at the Agricultural Research Station.
- Initiated the Agricultural Research Seminar Series.
- Revised and re-established an Evans-Allen Proposal Review Committee and processed several research proposals for funding.
- Participated in an economic development exploratory trip to Cuba in collaboration with the Georgia Department of Agriculture.
- Coordinated scientist/student participation at the Association of 1890 Research Directors (ARD) Biennial Symposium and established a quality control process for abstract submission.
- Served as ARD Biennial Symposium Steering Committee Member.
- Selected by ARD to serve on ESCOP (Experiment Station Committee on Organization and Policy).
- Started publishing the FVSU Ag Research Report.
- Refurbished the research facilities, offices, and labs.
- Hired several research assistants to provide enough assistance in the labs for all scientists.
- Coordinated project renewals and submission of annual and terminal CRIS reports for scientists.

Coordinator, Animal Science Undergraduate and Graduate Programs, FVSU

- Provided leadership to the Animal Science instruction program.
- Participated in student recruitment activities.

- Conducted a Program Review and compiled a document for the Animal Science Graduate Program for the review period 2000-2005.
- Conducted a Program Review and compiled a document for the Animal Science Undergraduate Program for the review period 1999-2004.

Director, Georgia Small Ruminant Research and Extension Center (GSRREC), FVSU

- Allocated resources for researchers and facilitated the research and extension activities of 10 scientists associated with GSRREC.
- Supervised the GSRREC staff members who managed the multi-million-dollar FVSU Slaughter and Meat Processing Facility, Dairy Technology Facility, indoor animal facilities, and pastures for goats and sheep.
- Significantly enhanced the Center's international engagement through student training, research collaborations, and outreach activities. Examples include collaborations with institutions in Belgium, Denmark, France, Afghanistan, Ethiopia, Honduras, Armenia, and Romania.
- Advised the Farm Manager on maintaining federal and state standards/requirements such as brucellosis and tuberculosis certifications, quarantine arrangements for new animals, and Grade A licensure for the dairy plant.
- Advised the Meat Plant Manager on maintaining federal and state standards/requirements such as the BSE monitoring program, *E. coli* monitoring of carcasses for at least 13 consecutive weeks in a year, and updating HACCP plans and SSOPs as needed.

Faculty Member, FVSU

- Collaboratively secured more than \$3.5M in external grants for research, education, and outreach activities.
- Advised 16 graduate students, supervised their thesis projects, and served on thesis committees of numerous graduate students.
- Mentored three postdoctoral research professionals (Drs. Jung Lee, Ajit Mahapatra, Zaira Estrada-Reyes).
- Participated in the College's international educational and outreach activities. For example,
 - Trained an animal science intern from France in 2005 for 6 months. Supervised

the intern's work, conducted monthly evaluations, and sent reports to INRA, France.

- Participated in the Bourlog Fellowship Program and hosted two visiting scientists from Armenia.
- Hosted 15 individuals from Belgium under the Bourlog Fellowship Program.
- Visited Ethiopia to participate in a collaborative research project to study the incidences of elevated stress levels and dark-cutting meat in small ruminants raised in highlands.
- Taught the following undergraduate and graduate courses:
 - ANSC 1801 Social Interaction and Behavior of Animals
 - ANSC 1811 Introduction to Animal Agriculture
 - ANSC 3891 Cooperative Education in Animal Science
 - ANSC 3813 Principles of Meat Science
 - ANSC 4841 Animal Science Seminar
 - ANSC 5203 Experimental Design
 - ANSC 6363 Structure and Biochemistry of Muscle as Food
 - ANSC 6421 Graduate Seminar
 - ANSC 6436 Research and Thesis
- Served as the Chair of the Institutional Animal Care and Use Committee for ten years.
- Earned tenure in 2003.

1996-1997

Postdoctoral Research Associate

Department of Animal Science, University of California, Davis, CA

- Trained undergraduate students in laboratory procedures to assess stress in chickens.
- Lectured on humane handling of animals to undergraduates.
- Conducted research on pre-harvest stress in poultry.

1993-1996

Graduate Research/Teaching Assistant

Department of Poultry Science, University of Maryland, College Park, MD

- Investigated the effects of stress in broiler chickens.
- Devised experimental gaseous stunning equipment for stunning broilers in transport crates.

- Assisted in food microbiology experiments.
- Assisted in statistical analysis of data.

1989-1992

Assistant Professor*Madras Veterinary College, India.*

- Taught several courses to veterinary (B.V.Sc.) students.
- Participated in an Indo-UK collaborative research project sponsored by the Overseas Development Agency, United Kingdom. Attended a training program conducted by scientists from the University of Belfast, Northern Ireland, and the University of Bristol, England.
- Participated in a research project funded by the Indian Council of Agricultural Research (ICAR). Compiled the final report of the project.
- Coordinated an in-service training program for field veterinarians, public health personnel, and district extension officers.

1986

Veterinary Officer*Southern Hatcheries Pvt. Ltd., Deejay Group, Bangalore, India.*

- Lectured on poultry management during training sessions for unit supervisors.
- Managed poultry breeding stocks.
- Trained unit supervisors in poultry disease diagnostic procedures and hatchery operations.
- Visited commercial poultry farms to solve poultry health problems.

AWARDS AND RECOGNITIONS

- 2026 Auburn Author Award, Auburn University
- 2019 Selected for the Americas Exchange Program (ACE) Class of 2019. Attended the 12th ACE Program in Santiago de Chile, in October 2019.
- 2017 1890 Leadership Award.
- 2017 Outstanding Leadership Award, Association of 1890 Research Directors [ARD; comprising of 19 land-grant institutions in the southeastern US; one of the Regional Associations of the Association of Public and Land-Grant Universities' (APLU) Board on

Agriculture Assembly (BAA)].

- 2017 Champion of Research Excellence Award, Seventh Annual Research Day, FVSU.
- 2014 Appointed by the US Secretary of Agriculture Tom Vilsack to serve on the National Agricultural Research, Extension, Education, and Economics (NAREEE) Advisory Committee representing the National Food Animal Science Society constituency.
- 2014 Twentieth Century Agriculturalist Award, Agriculture Alumni Association, FVSU.
- 2012 Recognized by the White House as “Strengthening Food Security Champion of Change.” Served on the Strengthening Global Food Security Panel. Received a letter of appreciation from President Barak Obama.
- 2012 Invited by the Undersecretary of Agriculture and USDA Chief Scientist, Dr. Catherine Woteki, to attend a Mini-Summit on Agricultural Research in Qingdao, China.

PROFESSIONAL ACTIVITIES (Selected)

- Member of the Poultry Science Association
- Member of the World Poultry Science Association
- Member of the American Society of Animal Science (26 years)
- Member of the International Goat Association (~20 years)
- Editorial Board Member for the journal *Frontiers in Animal Science*
- Editor-in-Chief for the journal *Animals – Small Ruminant Section*
- Ad hoc Reviewer for
 - Applied Animal Behavior Science
 - Journal of Animal Science
 - Small Ruminant Research
 - Meat Science
 - Frontiers in Animal Science
 - Animal Research
 - Livestock Science
 - Animals
 - Heliyon
 - PLOS One
 - Molecules

- USDA Grant Proposals
- USDA/Agriculture Marketing Service Grant Proposals
- Served as Co-Chair of the Executive Committee for the USDA/1890 Task Force.
- Served on the National Agricultural Research, Extension, Education, and Economics (NAREEE) Advisory Board's
 - Member of the Executive Committee
 - Data Management Working Group
 - Science Advisory Council
 - Relevance and Adequacy Committee
 - Climate Change Working Group
- Served on the APLU's BAA Futuring Task Force, representing the 1890 Institutions.
- Served as Chair of ARD, one of the regional associations of BAA, a component of APLU.
 - Provided leadership in establishing the ARD Foundation Board of Directors and appointed Board members.
 - Provided leadership in establishing three 1890 Centers of Excellence:
 - Center for International Development and Engagement
 - Center for Innovative and Sustainable Small Farms, Ranches and Forestlands
 - Center to Motivate and Educate for Achievement
- Served as Chair of the 1890 ARD Consortium Committee for Integrated Production Systems.
- Served on the Experiment Station Section 2018 (national) Fall Conference Planning Committee.
- Served on Experiment Station Section 2017 (national) Fall Conference Planning Committee and coordinated a session on Big Data.
- Served the International Goat Association's Scientific Committee for the 2016 International Conference on Goats held in Turkey.
- Appointed by the International Goat Association in 2015 to serve as a Country Representative.
- Served as Chairperson of Poster Sessions at the XI International Conference on Goats, Canary Islands, Spain.

- Served as the Chair of the American Society of Animal Science (ASAS) Small Ruminant Program Committee for the year 2012-2013. Organized a symposium on “Sustainable Meat Goat Production” at the ASAS/ADSA Joint Annual Meetings in Indianapolis, IN, in July 2013. Secured sponsorship from Southern SARE.
- Served as a member of the American Society of Animal Science - Food Safety Program Committee for the year 2011-2012.
- Served as the Vice-Chair of the American Society of Animal Science - Food Safety JT Program Committee for the year 2007-2008.
- Served as a member of the American Society of Animal Science - Food Safety JT Program Committee for the year 2006-2007.
- Served as the Chair of the Institutional Animal Care and Use Committee, FVSU for 10 years.

PROFESSIONAL MEMBERSHIPS

- American Society of Animal Science
- Poultry Science Association
- World Poultry Science Association
- International Goat Association

As an administrator, actively associated in the past with

- 1890 Deans' Council
- Association of 1890 Research Directors, Inc.
- Association of Public and Land-Grant Universities

GRANTSMANSHIP EFFORTS (Selected, funded proposals)

As Administrator

- **G. Kannan**, 2022. Establishment of a Mobile Precision Agriculture Lab. 21st Century Partnership.
Amount: \$800,000.00
- **G. Kannan**, 2021. FVSU Fab Lab. Chevron and MIT Fab Foundation.
Amount: \$430,000.00/year.
- **G. Kannan** and M. Latimore, 2018. Establishment of the FVSU Center for Agricultural

Innovation and Entrepreneurship. USDA-1890 Facilities Grant Program.
Amount: \$5,000,000.00

- **G. Kannan** and M. Latimore, Jr., J. Bentley, 2013. Enhancing Facilities for Agricultural Research, Teaching and Extension Programs. USDA-1890 Facilities Grant Program.
Amount: \$5,500,000.00
- M. Latimore, Jr., T. Harris, J. Bentley, L. Johnson, **G. Kannan**, 2008. 1890 Facilities Grant Program at Fort Valley State University. USDA-1890 Facilities Grant Program.
Amount: \$7,500,000.00

As Faculty Member

- **G. Kannan**, T. H. Terrill, and B. Kouakou, 2022. Integrated Small Ruminant Production Systems.
USDA-ARS.
Amount: \$430,000/year for 5 years
- **G. Kannan** and R. C. Noble, 2021. Targeted outreach for underserved livestock producers.
USDA-NRCS.
Amount: \$34,826.00
- B. Kouakou and **G. Kannan**, 2018. Product Development and Student Entrepreneurship at the Agricultural Research Station. USDA-NIFA.
Amount: \$710,000.00
- N. Joshee and **G. Kannan**, 2017. Building on the Success of STEM Graduate Disciplines Achieved Through the DoE Project. Department of Education.
Amount: \$400,000.00
- N. Joshee and **G. Kannan**, 2013. Ag Discovery – Summer Enrichment Program. USDA-APHIS.
Amount: \$47,487.00
- S. Wildeus, T. Nartea, J. H. Lee, and **G. Kannan**, 2013. Strategies to raise hair sheep lambs for specialty markets on pasture. USDA-NIFA CBG.
Amount: \$299,305.
- **G. Kannan**, 2013. Sustainable Meat Goat Production – Mini-grant from Southern SARE to conduct a symposium at the ASAS/ADSA Joint Annual Meetings in Indianapolis, IN, July 2013.
Amount: \$5,000.00

- **G. Kannan**, A. K. Mahapatra, S. Sharma, J. H. Lee, and M. Ibrahim, 2011. Cost-effective pathogen reduction strategies and food safety training for small and very small meat processors in Georgia. National Integrated Food Safety Research Initiative Program, USDA-NIFA.
Amount: \$100,000.00
- Y. W. Park and **G. Kannan**, 2010. Strengthening Food Technology Program at Fort Valley State University. USDA 1890 Capacity Building Grants Program.
Amount: \$140,639.00
- K. W. McMillin (PI, Louisiana State University, Baton Rouge, LA) et al., 2010. Enhanced economic benefits for meat goat producers through production, meat yield and palatability, and consumer information. Submitted by K. W. McMillin *et al* to AFRI and was recommended for funding. **G. Kannan** (Co-PD) received a subcontract for the research work to be conducted at FVSU.
Amount: \$8,333.65
- W. R. Getz, T. H. Terrill, S. Mobini, **G. Kannan** (Fort Valley State University), J. E. Miller (Louisiana State University), J. Mosjidis (Auburn University), N. Whitley (University of Maryland Eastern Shore), and J. Burke (USDA-ARS, Booneville, AR), 2007. Development and field testing of natural (non-chemical) systems for controlling gastrointestinal nematodes in sheep and goats in the southern USA. USDA 1890 Capacity Building Grants Program.
Amount: \$460,867.00
- C. Nguyen, **G. Kannan**, A. K. Mahapatra. Control of *E. coli* O157:H7 on beef surfaces using electric pulse and thin-film electrolyte solution. USDA 1890 Capacity Building Grants Program.
Amount: \$287,707.00
- **G. Kannan**, 2006. Pre-harvest management methods to reduce bacterial loads on goat skin and carcass surfaces. USDA/CSREES (Station Project).
Amount: \$60,000.00
- **G. Kannan**, B. Kouakou, and T. H. Terrill (Fort Valley State University), 2004. Prevention of *E. coli* contamination of goat carcasses by reducing fecal pathogen counts on skin. USDA/FSIS.
Amount: \$27,000.00
- **G. Kannan** and B. Kouakou (Fort Valley State University), 2003. Pathogen reduction in goat carcasses by controlling pre-slaughter gut-fill and fecal contamination of skin/hair. USDA/FSIS.
Amount: \$25,000.00

- **G. Kannan**, S. Gelaye, L. Johnson, W. R. Getz, T. E. Hollis, and C. Johnson (Fort Valley State University), 2001. Food safety education at retail: an outreach program for small and disadvantaged meat and poultry establishments. USDA/FSIS.
Amount: \$46,000.00
- **G. Kannan** (PI), Y. W. Park, S. Gelaye, B. Kouakou (Fort Valley State University), B. W. Berry (USDA ARS, Beltsville, MD), K. W. McMillin (LSU), and T. D. Pringle (UGA), C. B. Chawan (Alabama A&M), 2000. Development of value-added products using chevon. USDA 1890 Capacity Building Grants Program.
Amount: \$298,878.00
- S. Gelaye, **G. Kannan**, B. Kouakou, T. H. Terrill, W. R. Getz, and S. Mobini (Fort Valley State University), 1999. Very small meat processing plant HACCP model outreach program. USDA/FSIS.
Amount: \$28,000.00
- **G. Kannan**, Y. W. Park, and S. Gelaye (Fort Valley State University), 1998. Enhancement of chevon palatability using postmortem methodologies. USDA/CSREES in 1998.
Amount: \$15,000.00

PUBLICATIONS

Refereed Articles

- P. Gurrapu, P. Batchu, A. Shaik, T. H. Terrill, and **G. Kannan**, 2026. On-farm dietary supplementation of black seed (*Nigella sativa*) meal in goats: effects on physiological and metabolomic responses during transportation. *Frontiers in Veterinary Science* 12: 1721007
- A. Siddique, P. Batchu, A. Shaik, P. Gurrapu, T. Erukulla, C. Ellington, A.R. Villa, D. Brown, A. Mahapatra, S. Panda, E. Morgan, J. A. Van Wyk, D. Shapiro-Ilan, **G. Kannan**, and T. H. Terrill, 2025. Evaluating the efficacy of bioelectrical impedance analysis using machine learning models for the classification of goats exposed to Haemonchosis. *Frontiers in Veterinary Science* 12:1584828. doi: 10.3389/fvets.2025.1584828
- T. T. Erukulla, P. Batchu, P. Gurrapu, A. Shaik, T. H., Terrill, and **G. Kannan**, 2025. Attenuation of stress responses to human handling through habituation in goats. *Animals* 15:1385. doi.org/10.3390/ani15101385.
- A. Shaik*, P. Batchu*, A. Naldurtiker*, P. Gurrapu*, P., B. Kouakou, T. H. Terrill, and **G. Kannan**, 2024. Influence of epinephrine reactivity to stress on meat quality in goats. *Translational Animal Science* May 28;8:txae078. doi: 10.1093/tas/txae078.

- A. Neha, A. Shaik*, S. C. Chelkapally, R. S. Kolikapongu, S. C. Namani, T. Erukulla, P*. Batchu*, N. Mendez, Y. Smith, D. Brown, N. C. Whitley, A. A. Pech-Cervantes, G. S. Dykes, V. R. Owen, **G. Kannan**, J. E. Miller, A. Siddique, T. H. Terrill, 2024. Effect of feeding a blackseed meal-sericea lespedeza leaf meal pellet on gastrointestinal nematode and coccidia infection and animal performance in young goats. *Veterinary Parasitology* 331:110253. doi: 10.1016/j.vetpar.2024.110253
- A. Naldurtiker*, P. Batchu*, B. Kouakou, T. H. Terrill, G. W. McCommon, and **G. Kannan**, 2023. Differentially expressed genes analysis using RNA-seq in the blood of goats exposed to acute stress. *Scientific Reports* 13:1984. <https://doi.org/10.1038/s41598-023-29224-5>
- **G. Kannan**, P. Batchu*, A. Naldurtiker*, G. S. Dykes, P. Gurrapu*, B. Kouakou, T. H. Terrill, and G. W. McCommon, 2023. Habituation to livestock trailer and its influence on stress responses during transportation in goats. *Animals* 13:1191. <https://doi.org/10.3390/ani13071191>
- P. Batchu*, A. Naldurtiker*, B. Kouakou, T. H. Terrill, G. W. McCommon, and **G. Kannan**, 2022. Metabolomic exploration of the effects of habituation to livestock trailer and extended transportation in goats. *Frontiers in Molecular Biosciences* 9:1027069. doi: 10.3389/fmolb.2022.1027069
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*Graduate students

Graduate Student Research Supervised

- Advised or co-advised 16 graduate students and served on several graduate student thesis committees.

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- B. Kouakou, O. S. Gazal, T. H. Terrill, **G. Kannan**, S. Gelaye, and E. A. Amoah, 1999. Effects of plane of nutrition on blood metabolites and hormone concentration in goats. *Journal of Animal Science* 77(1):267.
- **G. Kannan**, T. H. Terrill, B. Kouakou, O. Gazal, S. Gelaye, E. A. Amoah, S. Miller, and W. R. Getz, 1999. Physiological stress responses in Spanish goats due to transportation and holding. *Journal of Animal Science* 77(1):25.
- **G. Kannan**, B. Kouakou, S. Gelaye and T. H. Terrill, 1999. Color and tenderness of case-ready chevon cuts as influenced by storage time. *Journal of Animal Science* 77(1):170.
- **G. Kannan** and J. A. Mench, 1995. Welfare aspects of shackling in broilers. Presented at the *North American Symposium on Poultry Welfare*, University of Alberta, Edmonton, Alberta, Canada.

- **G. Kannan** and J. A. Mench, 1995. Effects of regular handling on stress in broilers. *Poultry Science* 74(1):93.
- **G. Kannan**, J. A. Mench and J. L. Heath, 1995. Transportation effects on stress and meat quality in broilers. *Poultry Science* 74(1):32.
- **G. Kannan**, J. A. Mench and J. L. Heath, 1994. Effect of holding time on stress and meat quality in broilers. Presented at the *North American Symposium on Applied Ethology*, University of Guelph, Ontario, Canada.
- **G. Kannan**, J. A. Mench and J. L. Heath, 1994. Effect of holding time on stress and meat quality characteristics in broilers. *Poultry Science* 73(1):85.

*Graduate students

Creative Contributions Other Than Formal Publications

- A. Naldurtiker, P. Batchu, B. Kouakou, T. H. Terrill, A. Shaik, and **G. Kannan**, 2022. RNA-Seq exploration of the influence of stress on meat quality in Spanish goats. *Gene Expression Omnibus (GEO) Accession Number: GSE210823*.
- A. Naldurtiker, P. Batchu, B. Kouakou, T. H. Terrill, G. W. McCommon, and **G. Kannan**, 2022. Transcriptomic analysis of acute stress in goats. *Gene Expression Omnibus (GEO) Accession Number: GSE210841*.
- S. Daley-Laursen, A. Campa, **G. Kannan**, D. Villwock, J. Goodman, M. Oltrogge, and R. Gaussoin, 2017. *NAREEE Advisory Board Report: Relevance and Adequacy Review – Responding to Climate Variability*.
- M. R. McLellan, P. Brannon, A. Campa, C. Castille, S. Daley-Laursen, R. Gaussoin, **G. Kannan**, M. Lawrence, and D. Thilmany, 2017. *NAREEE Advisory Board – Science Advisory Council Report: Use of Gene Editing in USDA Research*.
- S. Daley-Laursen, C. Castille, **G. Kannan**, M. McLellan, and D. Thilmany, 2014. *NAREEE Advisory Board – Data Management Working Group Report: Recommendations on Open Data, Big Data, and Data Management within USDA and Between USDA and its Partners*.
- **G. Kannan**, 2017. White Paper – FVSU Center for Agricultural Innovation and Entrepreneurship.

- W. R. Getz and **G. Kannan**, 2009. Goat meat grades and carcass value. *GSRREC Newsletter*, Spring 2009.
- **G. Kannan**, 2009. Seaweed extract supplementation can improve food safety and profitability in goats and sheep. *GSRREC Newsletter*, Spring 2009.
- M. Singh, E. A. Amoah, **G. Kannan**, S. Stice, D. Donovan, 2009. Title: *Capra Hircus* upstream genome sequence region of myostatin gene. *NIH GenBank Accession Number: GQ121039*.
- **G. Kannan**, B. Kouakou, and T. H. Terrill, 2006. Final Report: Prevention of *E. coli* contamination of goat carcasses by reducing fecal pathogen counts on skin. Submitted to USDA/FSIS.
- **G. Kannan** and B. Kouakou, 2005. Final Report: Pathogen reduction in goat carcasses by controlling pre-slaughter gut-fill and fecal contamination of skin/hair. Submitted to USDA/FSIS.
- **G. Kannan**, V. R. Gutta, B. Kouakou, and W. R. Getz, 2004. Pre-harvest diet management can reduce bacterial shedding in sheep and goats. *GSRREC Newsletter*, Spring 2005.
- **G. Kannan**, 1999. Transportation stress affects profitability and product quality. *GSRREC Newsletter*, Vol.10, No.2.
- **G. Kannan**, 1999. Sanitation Standard Operating Procedures (SSOPs) and Good Manufacturing Procedures (GMPs) for FVSU Slaughter and Meat Processing Facility.
- **G. Kannan**, 1999. Hazard Analysis and Critical Control Points (HACCP) Plans for FVSU Slaughter and Meat Processing Facility.

INVITED PRESENTATIONS (Selected)

- **G. Kannan**, 2019. Management of goats prior to processing to minimize animal stress and meat quality defects. *Nepal Agricultural Research Council*, Kathmandu, Nepal.
- **G. Kannan**, 2019. Brown seaweed extract supplementation in goats. Keynote presentation at the *American Society for Medicinally Active Plants Conference* in Dehradun, India.
- **G. Kannan**, 2012. Sustainable agriculture initiatives at FVSU. Keynote presentation at the *Mini-Summit on Agricultural Research*, Qingdao, China.

- **G. Kannan**, 2012. Chevon quality enhancement: pre- and post-slaughter methodologies. *XI International Conference on Goats*, Canary Islands, Spain.
- **G. Kannan**, 2009. “Multi-Institutional Research on Small Ruminants: A Success Story.” Plenary Session Speaker at the *Fifteenth Biennial ARD Research Symposium, March 28-April 1, 2009*.
- **G. Kannan**, 2008. Pre-slaughter management of goats in high-land regions of Ethiopia. Debra Zeit, Ethiopia.
- **G. Kannan**, 2002. Pre-slaughter management and meat quality in goats. *Scientific Goat Conference on Goats 2002*, Prairie View, TX.
- **G. Kannan**, 1999. The impact of HACCP system on very small meat operations. *Ag Showcase'99*, Georgia.
- **G. Kannan**, 1999. Goat meat quality as influenced by breed, age and sex. *Washington County Goatarama Festival 1999*, Georgia.

WORKSHOPS AND TRAININGS (Selected)

Conducted

- Co-Organized 3 workshops of meat goat producers in 2020-2021.
- Conducted a national workshop in Mojo, Ethiopia, on Goat Meat Quality Assessment and Food Safety under the USAID Sheep and Goat Productivity Improvement Program (Lead Institution: Langston University), March 2008.
- Conducted a workshop entitled “Food Safety at Retail” sponsored by FVSU and USDA/FSIS, August 27-28, 2002.
- Conducted a workshop entitled “HACCP System: An Update” sponsored by FVSU and USDA/CSREES, January 23-24, 2001.
- Conducted a HACCP Workshop sponsored by Georgia Small Ruminant Research and Extension Center, FVSU and USDA/FSIS, November 23-24, 1999.
- Coordinated a Hazard Analysis and Critical Control Points (HACCP) Workshop under the Small Plant Demonstration Project, sponsored by College of Agriculture, Home Economics and Allied Programs, FVSU and USDA/FSIS, September 1-2, 1998.

Attended

- Unified AV System's Smart Training Program, February 15, 2013, FVSU.
- New Dean's Orientation Program, Washington DC, 2009.
- IACUC 101 Training at San Diego, CA, 2007.
- USDA/CSREES Grantsmanship Workshop, USDA/CSREES, September 6, 2006, Washington, DC.
- Writing Winning Grants – Workshop, USDA/CSREES, September 7, 2006, Washington DC.
- Faculty Web Training, December 7, 2006, FVSU.
- GC-MS – Training at FVSU, September 18-20, 2006.
- Compusense – Sensory Analysis Workshop, 2004, FVSU.
- IACUC Training conducted by USDA/APHIS, December 1, 2004, FVSU.
- SAS Mixed Model Workshop, Annual American Society of Animal Science meetings, July 24-28, 2000, Baltimore, MD.
- Workshop on Keeping Your PC Fine Tuned, Fall Faculty Institute 2000, FVSU.
- Multimedia Workshops I and II on PowerPoint Presentations, 1999, FVSU.
- Workshop on Frontpage, Online Courses, and Eudora, Fall Faculty Institute 1999, FVSU.
- Basic Hazardous Material - Right To Know, April 1999, FVSU.
- Dairy Goat Workshop, December 1999, FVSU.

SERVICEService to the Department/Major (Selected)

- Undergraduate Program Coordinator
- Graduate Program Coordinator

- Member of Graduate Advisory Council.
- Developed two white papers on Food Safety Education and Poultry Research Program.
- Advised one high school student every year from the Summer Research Apprenticeship Program.
- Advised one student every year from the Bridges Program.
- Several undergraduate and graduate students won awards at professional society conferences.
- Served as faculty advisor for Animal Science Student Club.

Recruitment Efforts (Selected)

- Visited community colleges in Alabama to reestablish partnerships and explore 2+2 agreements.
- Traveled to several universities and high schools for recruitment purposes.
- Participated in FVSU Preview Days and Open Houses.
- Attended several student club meetings and urged students to be engaged in recruitment efforts.
- Contacted prospective students by mail, e-mail, and phone.
- Conducted tours of facilities for several prospective students.

University Service (Selected)

- Co-Chair, Screening Committee for FVSU Provost and Vice President for Academic Affairs.
- Chair, Implementation Leaders Group, FVSU Strategic Plan Priority 4: Engagement and Collaboration.
- Member of the FVSU Strategic Planning Committee for 2020-2025.
- Chair, Engagement and Collaboration Workgroup of the Strategic Planning Committee.

- Chair, FVSU Master Planning Committee.
- Chair, Agricultural and Laboratory Animal Care and Use Committee.
- Chair, Biotechnology Building Final Planning Committee.
- Key Note Speaker at 2011 AgriDemic Forum Awards Banquet.
- Appointed by the Chancellor, University System of Georgia, to serve on FVSU Presidential Search Committee – 2005.
- Member of the University Curriculum Committee.
- Member of the College Curriculum Committee.
- Member of the University SAFE Committee.
- Member of the Biosafety Committee.
- Member of the Graduate College Recruitment Committee.
- Member of the College of Agriculture Recruitment Committee.
- Member of Graduate Council.
- Member of Ag Council.
- Appointed by the VPAA to serve on the Feeder Program Committee.
- Member of the Honors Program Council.
- Faculty Senator
- Member of Strategic Planning Committee, College of Graduate Studies and Extended Education.
- Member of Curriculum Committee, College of Agriculture, Home Economics and Allied Programs.
- Member of Ad Hoc Graduate Grievance Committee, College of Graduate Studies and Extended Education.

- Member of the Pre-Tenure Review Committee, College of Graduate Studies and Extended Education.
- Member of Tenure Review Committee, Department of Veterinary Science.
- Participated in all university-sponsored activities.
- Served on several other committees-

Examples:

- Chair, Search Committee for Dean, College of Agriculture, Home Economics and Allied Programs
- Member of Search Committee for Dean, College of Graduate Studies and Extended Education
- Member of Search Committee for Associate Dean for Research, CAHEAP
- Chair, Search Committee for MPH Chair.

Service within the discipline (Selected)

- International Goat Association Country Representative.
- Appointed by the Georgia Commissioner of Agriculture to serve on the Search Committee for Director of Food Safety, Georgia Department of Agriculture, 2013.
- Appointed as the Chair of the Small Ruminant Program Committee, American Society of Animal Science, 2012-2013.
- Appointed as a member of the Small Ruminant Program Committee, American Society of Animal Science, 2011-2012.
- Chaired a Small Ruminant Oral Session during the 2011 ASAS Meetings in New Orleans, LA.
- Served on the Strategic Planning Committee for the Georgia Department of Agriculture, in 2011.
- Served as a panelist during the UGA's Sustainable Agriculture Consortium Kick-Off Panel Discussion, Athens, Georgia, 2011.
- Appointed as the Vice-Chair of the ASAS-ADSA Joint Food Safety Program Committee, 2007-2008.
- Appointed as a member of the Food Safety Committee, American Society of Animal

Science, 2006-2007.

Service in the general community (Selected)

- Board of Directors, Georgia Budget and Policy Institute (GBPI).
- Rotary Club, Warner Robins, Georgia.
- Served as a resource person for Georgia Meat Goat Producers Association on issues related to meat goat production and processing. Participated in panel discussions during association meetings.
- Assisted the writer in publishing an article in DIVERSE Issues in Higher Education, Volume 24, No. 23, December 27, 2007.
- Participated in several television station and newspaper interviews and promoted the College's programs.
- Participated in "rebuilding the community" project and helped repair and paint a house in Fort Valley.
- Participated as a keynote speaker in Washington County Goatarama Festival.
- Streamlined meat plant activities at GSRREC such that the producers, processors, and community members were benefited by the services provided by the Center.
- Visited local goat producers and processors along with FVSU Extension Specialists and provided technical advice on meat goat production, processing, fabrication, and packaging.
- Answered farmer/producer questions on goat production.
- Interacted regularly with Black Farmers Association President and provided technical advice when needed.
- Conducted tour of GSRREC facilities and talked about our small ruminant program to numerous visitors, including international visitors.