

Curriculum Vitae
Uma Karki, Ph.D.
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CV
Uma Karki, Ph.D.
Email: ukarki@tuskegee.edu

Education

Ph.D. Agronomy and Soils (Forage and Grazing Land Ecology), Auburn University, 2008
Minor: Statistics.

M.Sc. Agriculture (Animal Science), the University of Western Australia, 2002.

B.V.Sc. and A.H. (Veterinary Science and Animal Husbandry), Tribhuvan University, Institute of Agriculture and Animal Science (IAAS), Nepal, 1994.

B.Sc. Animal Science, Tribhuvan University, IAAS, Nepal, 1992.

Professional Experience

Director, Caprine Research and Education Unit, October 2022-Present, George Washington Carver Agricultural Experiment Station, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University

Research-Extension Professor and State Extension Livestock Specialist, July 2019-Present, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University.

Research-Extension Associate Professor and State Extension Livestock Specialist, June 2014-June 2019, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University.

Research-Extension Assistant Professor and State Extension Livestock Specialist, January 2009-May 2014, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University.

Graduate Research Assistant, August 2005-December 2008, Department of Agronomy and Soils, Auburn University.

Livestock Development Officer 1993-2005, Ministry of Agriculture and Cooperatives, Nepal.

Excellence Awards

Tuskegee University Outstanding Faculty Performance Award for Innovation, College of Agriculture, Environment and Nutrition Sciences, 2023-2024 Academic Year.

Early Career Award, Association for Temperate Agroforestry, 2017 for extraordinary early career accomplishments at the highest levels of professional practice and leadership.

Excellence in Extension Award, 2015, Association of Extension Administrators, 1890 Cooperative Extension System.

Tuskegee University Outstanding Faculty Performance Award for Service, College of Agriculture, Environment and Nutrition Sciences, 2012-2013 Academic Year.

Recent Grant Projects

4 Projects, \$66.2 million

Co-PI in Karki, L. B., P. Bhandari, N. K. Dixit, U. Karki, and A. Kumi. 2024-2027. Enhancing Climate-Smart agricultural practices for the sustainability of small and minority farmers and landowners, USDA-NIFA Capacity Building Grant, \$600,000.

Karki, U., S. R. Mentreddy, C. Christian, V. Temu, L. Karki, R. Shange, A. Kumi, A. Atalay, M. Kering, P. Bhandari, and D. Davis. 2023-2028. Expanding the participation of marginal producers and landowners to promote Climate-Smart agriculture and forestry practices: continuous efforts of 1890 agroforestry consortium, USDA/NRCS Climate Smart Agriculture and Forestry Partnership Program, \$4,999,999.00. (*Under Review after Suspended in 2025 because of USDA admin change*)

Co-PI in Fargione, J., U. Karki, et al. 2023-2028. Expanding agroforestry production & markets for producer profitability and climate stabilization, USDA/NRCS Climate Smart Agriculture and Forestry Partnership Program, \$60,000,000.00. (*Approved after suspension in 2025 because of USDA admin change Awaiting subaward*)

Co-PI in Merkel, R., U. Karki et al. 2023-2026. Developing a sustainable meat goat production and marketing system for the Southeastern United States through an 1890 Universities Consortium – Second phase, Large Systems Research Grant, Southern Sustainable Agriculture Research and Education (SSARE), \$600,000.

Completed Grant Projects

12 Projects, \$3.87+ million

Co-PI in Bartlett, J., U. Karki et al. 2020-2025. Integration of pastured poultry as part of a sustainable farming enterprise for local producers, USDA-NIFA Capacity Building Grant, \$300,000.

Co-PI in Gipson, T., U. Karki et al. 2020-2023. Developing a sustainable meat goat production and marketing system for the Southeastern United States through an 1890 Universities Consortium – First phase, Large Systems Research Grant, Southern Sustainable Agriculture Research and Education (SSARE), \$600,000.

PI. 2018-2024. Integrated approach for managing diseases and parasites in small ruminants in the Southeast, USDA-NIFA Capacity Building Grant, \$600,000.

Co-PI in Shange, R., U. Karki et al. 2017-2022. Development of a forest management system to enhance ecosystem restoration and management for limited resource landowners, USDA-NIFA, \$597,478.

PI. 2015-2020. Agroforestry-based cropping systems for sustaining small and medium-sized landowners in the Southeastern US, USDA-NIFA Agriculture and Food Research Initiative (AFRI), \$480,000.

PI. 2013-2016. Enhancing sustainable livestock production through pasture improvement and grazing/browsing management, USDA-NIFA Capacity Building Grant, \$599,979.

Co-PI in Gurung, N., U. Karki et al. 2014-2016. Comparison of on-farm winter feeding strategies for sustainable meat goat production, Southern SARE On-Farm Research Grant, \$14,500.

PI. 2013-2015. Trainers' training in agroforestry practices in the Southeastern Region: 1890 Agroforestry Consortium Initiative, Southern SARE Professional Development Grant, \$99,954.

PI. 2011-2013. Training for sustainable year-round forage production and grazing/browsing management in the Southern Region, Southern SARE Professional Development Grant, \$69,435.

PI. 2011-2013. Sustainable goat farming: pasture enhancement and diet selection by goats, Southern SARE On-farm Research Grant, \$14,993.

CO-PI in Gurung, N, U. Karki et al. 2010-2013. Development of silvopasture systems involving meat goats under pine plantation for enhancing economic and environmental competitiveness of limited-resource farmers and small-scale landowners. USDA-NIFA Capacity Building Grant, \$476,577.

CO-PI in Githinji, L., U. Karki et al. 2009-2011. Enhancing the economic stability of select limited resource farms through establishment of micropropagated pecan orchards integrated with crops and animals. Southern SARE Planning Grant, \$19,944.

Publications, Presentations, and Scholarly Contribution

Refereed Journal Articles (2009-present)

35 Articles

Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. (2025). Legume addition to grass pastures improved the performance and health indicators of Kiko does. *International Journal of Veterinary Medicine and Animal Science* Vol 2(1), 19-30. <https://doi.org/10.54536/ijvm.v2i1.4437>

Chaudhary, S., U. Karki, B. Shrestha, S. Lamsal, and L. Karki. (2025). Soybean-supplemented nursing ewes showed better performance and immune response than corn-supplemented ewes while grazing in woodlands. *Global Journal of Agricultural and Allied Sciences (GJAAS)* Vol 6(1), 11-17. <https://doi.org/10.35251/gjaas.2025.009>

Lamsal, S., U. Karki, S. Chaudhary, D. Dhakal, and B. Paneru. 2025. Rearing system influenced the performance and health status of pregnant ewes during winter. *Global Journal of Agricultural and Allied Sciences (GJAAS)*, Online First (pages 1-10). <https://doi.org/10.35251/gjaas.2025.008>

Bhattra, S., U. Karki, and S. Poudel, W. McElhenney, and B. Paneru. 2020. Diurnal behavior and distribution patterns of Kiko wethers and Katahdin rams in woodlands with different vegetation heights during fall. *Agroforestry Systems*, Published online May 12, 2020. <https://doi.org/10.1007/s10457-020-00500-x>.

Bhattra, S., U. Karki, and S. Poudel. 2021. Vegetation height and diurnal period influenced the landscape-use pattern of small ruminants in woodlands around summer. *Forests*, 12(2), 205. <https://doi.org/10.3390/f12020205>.

Bhattra, S., U. Karki, S. Poudel, B. Paneru, and N. Ellis 2021, Vegetation-utilization pattern and performance of small ruminants in woodlands with altering heights of non-target plants. *Agroforestry Systems*, 96, 505–516 (2022). Published online November 1, 2021. <https://doi.org/10.1007/s10457-021-00706-7>.

Bhattra, S., U. Karki, S. Poudel, B. Paneru, and N. Ellis. 2020. Maintenance of non-timber plants at low heights increased the solar radiation influx and understory vegetation biomass in woodlands. *Global Journal of Agricultural and Allied Sciences*, 2(1), 18-24. <https://doi.org/10.35251/gjaas.2020.003>.

- Bishaw, B., R. Soolanayakanahally, U. Karki, and E. Hagan. 2022. Agroforestry for sustainable production and resilient landscapes. *Agroforestry Systems*, 96 (3), 447-451. <https://doi.org/10.1007/s10457-022-00737-8>
- Chaudhary, S., U. Karki, B. Shrestha, S. Lamsal, and L. Karki. 2023. Supplement type influenced the performance and resiliency against gastrointestinal parasites of nursing lambs raised in woodlands. *Professional Agricultural Workers Journal (PAWJ)* 9 (2). <https://tupubs.tuskegee.edu/cgi/viewcontent.cgi?article=1200&context=pawj>
- Karki, L. B., and U. Karki. 2017. The socioeconomic and ecological impact of cool season forage production: a case of Black Belt Counties, Alabama. *Professional Agricultural Workers Journal (PAWJ)*, 4 (2). Available at: <http://tupubs.tuskegee.edu/pawj/vol4/iss2/9>
- Karki, L. B., and U. Karki. 2019. Impact of an educational program on a year-round forage production and grazing management system in Alabama. *Professional Agricultural Workers Journal (PAWJ)*, 7 (1). Available at: <https://tupubs.tuskegee.edu/pawj/vol7/iss1/7/>.
- Karki, L. B., S. Bauer, U. Karki, and G. R. Joshi. 2015. Women's empowerment and farm productivity: a case of project intervention. *Nepalese Journal of Agricultural Economics (NJAE)* 2 and 3, 163-177.
- Karki, L. B., U. Karki, S. R. Mentreddy, C. S. Christian, and S. K. Bambo. 2018. Impact of agroforestry educational program: a case of small-scale holders. *International Journal of Agricultural Extension and Rural Development Studies (IJAERDS)*, 5 (4), 37-50. Available at <http://www.eajournals.org/journals/international-journal-agricultural-extension-rural-development-studies-ijaerds/vol-5-issue-4-october-2018/>
- Karki, U. 2021. Year-round forage production for sustainable goat farming. *Professional Agricultural Workers Journal (PAWJ)*, 6 (3). <https://tupubs.tuskegee.edu/pawj/vol6/iss3/9/>.
- Karki, U. and L. B. Karki. 2017. Winter forage program benefitted small-scale goat producers. *American Journal of Agricultural and Biological Sciences*, 12 (2), 79-84. <https://doi.org/10.3844/ajabssp.2017.79.84>.
- Karki, U. and M. S. Goodman. 2010. Cattle distribution and behavior in southern-pine silvopasture versus open-pasture. *Agroforestry Systems*, 78, 159-168, <https://doi.org/10.1007/s10457-009-9250-x>.
- Karki, U. and M. S. Goodman. 2011. Short-term soil quality response to forage species and pH. *Grass and Forage Science*, 66, 290–299, <https://doi.org/10.1111/j.1365-2494.2011.00794.x>.
- Karki, U. and M. S. Goodman. 2013. Microclimatic diversity between young longleaf-pine silvopasture and open pasture. *Agroforestry Systems*, 87 (2), 303-310. Published online August 1, 2012, <https://doi.org/10.1007/s10457-012-9551-3> Online First.
- Karki, U. and M.S. Goodman. 2015. Microclimatic differences between mature loblolly-pine silvopasture and open pasture. *Agroforestry Systems*, 89 (2), 319-325. Published online November 16, 2014. <https://doi.org/10.1007/s10457-014-9768-4> Online First.
- Karki, U., B. Paneru, A. Tiwari, N. Ellis, S. Bhattarai, L. Karki, and S. Poudel. 2021. Soil quality and growth of southern pines in silvopastures and woodlands integrated with small ruminants. *Agroforestry Systems*, 96, 517-526 (2022). Published online November 15, 2021. <https://doi.org/10.1007/s10457-021-00709-4>.

- Karki, U., J. Idassi, S. R. Mentreddy, N. Gurung, L. Karki, S. Bambo, and C. Christian. 2016. Agroforestry research and extension education at 1890 universities and its impact in the Southeast. *Agroforestry Systems*, 90(5), 715-722. Published online September 7, 2016. <https://doi.org/10.1007/s10457-016-9934-y> Online First.
- Karki, U., M. S. Goodman, and S. E. Sladden. 2013. Plant-Community Characteristics of Bahiagrass Pasture During Conversion to Longleaf-Pine Silvopasture. *Agroforestry Systems*, 87 (3), 611-619. Published online November 9, 2012, <https://doi.org/10.1007/s10457-012-9582-9> Online First.
- Karki, U., M.S. Goodman, and S.E. Sladden. 2009. Nitrogen source influences on forage and soil in young southern-pine silvopasture. *Agriculture, Ecosystems and Environment*, 131, 70-76, <https://doi.org/10.1016/j.agee.2008.09.007>
- Karki, U., Y. Karki, R. Khatri, A. Tillman, S. Poudel, N. Gurung, and A. Kumi. 2018. Raising goats in the southern-pine silvopasture system: challenges and opportunities. *Agroforestry Systems*, 93 (5), 1647-1657 (2019). Published online June 27, 2018. <https://doi.org/10.1007/s10457-018-0271-1> Online First. (ShareDIt link: <https://rdcu.be/2nyB>)
- Karki, U., Y. Karki, R. Khatri, and A. Tillman. 2018. Diurnal behavior and distribution patterns of Kiko wethers in southern-pine silvopastures during the cool-season grazing period. *Agroforestry Systems*, 93, 267-277 (2019). Published online April 11, 2018. <https://doi.org/10.1007/s10457-016-9934-y> Online First.
- Khatri, R., U. Karki, J. Bettis, and Y. Karki. 2016. Grazing with goats changed the woodland plant-species composition during summer. *Professional Agricultural Workers Journal (PAWJ)*, 4 (1). Available online: <http://tupubs.tuskegee.edu/cgi/viewcontent.cgi?article=1078&context=pawj>
- Paneru, B., U. Karki, S. Bhattarai, and N. Ellis, and L. Karki. 2022. Suitable browse species for small ruminants: Growth pattern and animal preference. *Global Journal of Agricultural and Allied Sciences (GJAAS)*, 4 (1), 1-8. <https://doi.org/10.35251/gjaas.2022.001>
- Paneru, B., U. Karki, S. Bhattarai, and N. Ellis. 2019. Growth period of different browse species suitable for grazing small ruminants. *Professional Agricultural Workers Journal (PAWJ)*, 7 (1). Available online: <https://tupubs.tuskegee.edu/pawj/vol7/iss1/10/>.
- Poudel, S., U. Karki, W. McElhenney, Y. K. Karki, and A. Tillman. 2019. Confinement influenced the diurnal behavior and distribution pattern of Katahdin rams and Kiko wethers in southern-pine silvopastures. *Agroforestry Systems*, 94, 29-40 (2020). Published online February 1, 2019, <https://doi.org/10.1007/s10457-019-00359-7> Online First.
- Poudel, S., U. Karki, W. McElhenney, Y. K. Karki, and A. Tillman. 2018. Behavior and distribution patterns of Katahdin rams in southern-pine silvopastures with cool-season forages. *Agroforestry Systems*, 93, 1887-1896 (2019). Published online September 29, 2018 - DOI: 10.1007/s10457-018-0294-7 Online First.
- Poudel, S., U. Karki, W. McElhenney, Y. Karki, A. Tillman, L. Karki, and A. Kumi. 2017. Challenges of stocking small ruminants in grazing plots with dormant browse species. *Professional Agricultural Workers Journal (PAWJ)*, 5 (1). Available online: <http://tupubs.tuskegee.edu/cgi/viewcontent.cgi?article=1100&context=pawj>
- Poudel, S., U. Karki, Y. K. Karki, and A. Tillman. 2019. Diurnal behavior of Kiko wethers in southern-pine silvopastures planted with warm-season forages. *Small Ruminant Research*, 175, 1-6. DOI: <https://doi.org/10.1016/j.smallrumres.2019.03.005>

- Shrestha, B., U. Karki, A. Tiwari, S. Chaudhary, L. Karki, and C. Okere. 2022. Prevalence of gastrointestinal parasites in lactating Kiko does and their kids in woodlands with supplements. *Professional Agricultural Workers Journal (PAWJ)*, 9, 1. <https://tuspubs.tuskegee.edu/cgi/viewcontent.cgi?article=1192&context=pawj>
- Shrestha, B., U. Karki, S. Chaudhary, A. Tiwari, and L. Karki. 2023. Supplement type impact on the performance and nutrient dynamics of nursing does and kids raised in woodlands. *Animals*, 14 (68) (2024). <https://doi.org/10.3390/ani14010068>
- Tiwari, A., U. Karki, B. Paneru, N. Ellis, and L. Karki. 2021. Legume-grass pastures enhanced the growth of yearling Kiko does. *Professional Agricultural Workers Journal (PAWJ)*, 8 (1). <https://tuspubs.tuskegee.edu/pawj/vol8/iss1/2/>.

Chapters in Book, Training Handbooks, and Proceedings

14 Chapters

- Karki, U. 2013. Chapter 1: Importance of year-round forage production and grazing/browsing management. In U. Karki (ed.), *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region – Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 1-5). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01.
- Karki, U. 2013. Chapter 2: Forage definition and classification. In U. Karki (ed.), *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region – Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 6-12). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01.
- Karki, U. 2013. Chapter 4: Animal grazing behavior, influence of grazing on pastures, and grazing systems. In U. Karki (ed.), *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region – Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 64-69). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01.
- Karki, U. 2013. Chapter 6: Suitable plant growth and development stages for grazing and grazing management. In U. Karki (ed.), *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region – Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 81-92). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01.
- Karki, U. 2013. FAMACHA and smart drenching for managing barber pole worm. In U. Karki (ed.), *Integrated Management of Internal Parasites in Goats, Workshop Proceedings* (pp. 29-36). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0513-01.
- Karki, U. 2013. Importance of pasture-weed management. In U. Karki (ed.), *Pasture-Weed Identification and Management. Workshop Proceedings* (pp. 3-8). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0812-03.
- Karki, U. 2013. Pasture and grazing management for parasite control. In U. Karki (ed.), *Integrated Management of Internal Parasites in Goats, Workshop Proceedings* (pp. 17-

- 24). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0513-01.
- Karki, U. 2015. Chapter 1: Agroforestry introduction. In U. Karki (ed.), *Sustainable Agroforestry Practices in the Southeastern Region: Training Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 1-8). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University and 1890 Agroforestry Consortium, Publication No. TUAG1015-01.
- Karki, U. 2015. Chapter 3: Suitable forages and their establishment in silvopasture systems. In U. Karki (ed.), *Sustainable Agroforestry Practices in the Southeastern Region: Training Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 26-40). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University and 1890 Agroforestry Consortium, Publication No. TUAG1015-01.
- Karki, U. 2015. Chapter 5: Sustainable grazing management in a silvopasture system. In U. Karki (ed.), *Sustainable Agroforestry Practices in the Southeastern Region: Training Handbook for Training Field Extension and Technical Assistance Personnel* (pp. 59-75). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University and 1890 Agroforestry Consortium, Publication No. TUAG1015-01.
- Karki, U. 2016. Steps for establishing forages. In D. N. O. Tackie, J. R. Bartlett, and A. Adu-Gyamfi (eds.), *Addressing Critical Issues for Small Livestock Producers Curriculum*. George Washington Carver Agricultural Experiment Station and Cooperative Extension, Tuskegee University, Publication No. TUGFSH-0316-01A.
- Karki, U. 2025. Chapter 1: Integrated Approach for Preventing Diseases and Parasites in Small Ruminants: Background, Definition, and Need. In Uma Karki (ed.), *Integrated Approach for Preventing Diseases and Parasites in the Southeast USA: Training Handbook* (pp. 1-24). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. LIV251101.
- Karki, U. 2025. Chapter 4: Use of browse, woodlands, and silvopastures to expand grazing opportunity and minimize health problems in small ruminants. In Uma Karki (ed.), *Integrated Approach for Preventing Diseases and Parasites in the Southeast USA: Training Handbook* (pp. 73-102). Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. LIV251101.
- Karki, U., L. B. Karki, D. R. Pradhan, L. Sherchand. 2020. Principles, practices, and future directions of sustainable livestock production in Nepal. In D. P. Rasali, P. B. Bhandari, U. Karki, M. N. Parajulee, R. Acharya, and R. Adhikari (eds.), *Principles and Practices of Food Security: Sustainable, Sufficient and Safe Food for Healthy Living in Nepal* (pp. 270-295). Nepalese Association of Agricultural Professionals of Americas, ISBN 9 780 578 619958.

Proceedings Paper

6 Papers

- Karki, U. 2016. Strategies to enhance the sustainability of small-scale goat production. 7th National Small Farm Conference “Creating and Sustaining Small Farmers and Ranchers,” September 20-22, Virginia Beach Convention Center, Virginia Beach, Virginia. (*Abstract, oral presentation, and proceedings paper*).

- Karki, U., N. K. Gurung, A. Elliott, and J. Moore. 2012. Working with small farmers for promoting sustainable livestock production system. 6th National Small Farm Conference “Promoting the Successes of Small Farmers and Ranchers,” September 18-20, Tennessee State University, Memphis, Tennessee. (*Abstract, oral presentation, and proceedings paper*).
- Karki, U., N. Gurung, and N. Baharanyi. 2010. Short-term impact and evaluation of Tuskegee University extension education programs. The Professional Agricultural Workers Conference, December 5-7, Kellogg Conference Center, Tuskegee University, Tuskegee, AL 36088. (*Abstract, poster presentation, proceedings paper*).
- Prince-Davis, A., U. Karki, R. Reese, C. Wrights, and N. Gurung. 2012. Show perception of youth and their parents participating in the Tuskegee University goat show. The Professional Agricultural Workers Conference, December 2-4, Kellogg Conference Center, Tuskegee University, Tuskegee, AL 36088. (*Abstract, poster presentation, proceedings paper*).
- Reese, R., U. Karki, N. Gurung, J. Moore, and A. Elliott. 2012. Impact of year-round pasture production and grazing management program. The Professional Agricultural Workers Conference, December 2-4, Kellogg Conference Center, Tuskegee University, Tuskegee, AL 36088. (*Abstract, poster presentation, proceedings paper*).
- Karki, U. 2018. Year-round forage production for sustainable goat farming. The Third National Goat Conference, September 16-18, Kellogg Conference Center, Tuskegee University, Tuskegee, AL 36088 and Renaissance Hotel, Montgomery, AL. (*Abstract, oral presentation, and proceedings paper*).

Newsletter Articles (Peer-Reviewed)

11 Articles

- Acharya, A., U. Karki, and S. Acharya, and M. Dumre. 2026. Silvopasture system to mitigate solar radiation and provide comfortable environment for summer grazing. *Agri-Connection*, Vol. 11, Issue 1, March, Quarterly Newsletter, Association of Nepalese Agricultural Professionals of Americas (NAPA).
- Acharya, S., U. Karki, and A. Acharya, and M. Dumre. 2026. enteric methane emission from hair sheep reduced while grazing in silvopasture system during summer. *Agri-Connection*, Vol. 11, Issue 1, March, Quarterly Newsletter, Association of Nepalese Agricultural Professionals of Americas (NAPA).
- Bhatrai, S., U. Karki, S. Poudel, and L. B. Karki. 2019. Avenues for woodland management: maximizing benefits by cutting non-target plants and rotational grazing. *Temperate Agroforester*, 25 (1), Association for Temperate Agroforestry.
- Chaudhary, S., U. Karki, B. Shrestha, and S. Lamsal. 2023. Soybean is superior to corn for supplementing nursing ewes and lambs raised in woodlands. *Agri-Connection*, March, Quarterly Newsletter, 8 (1), Association of Nepalese Agricultural Professionals of Americas (NAPA).
- Dhakal, D., U. Karki, and S. Chaudhary. 2023. Livamol with BioWorma reduces the gastrointestinal nematode EPG in nursing Kiko does. *Agri-Connection*, Quarterly Newsletter, June, 8 (3), Association of Nepalese Agricultural Professionals of Americas (NAPA).

- Karki, L. B., U. Karki, S. Poudel, and S. Bhattarai. 2018. Silvopasture practice helps a farmer stay strong and healthy. *Temperate Agroforester*, 24 (3), Association for Temperate Agroforestry.
- Karki, S., R. Shange, R. Ankumah, W. McElhenney, O. Idehen, S. Poudel, and U. Karki. 2020. Soil physiochemical properties and enzyme activities in silvopasture and woodland land-use systems. *Temperate Agroforester*, 26 (2), Association for Temperate Agroforestry.
- Karki, U. 2016. Agroforestry extension education for benefitting farmers and landowners. *Temperate Agroforester*, 22 (3), Association for Temperate Agroforestry.
- Karki, U. 2016. Southern-pine silvopasture system for expanding the grazing opportunity for goats. *Temperate Agroforester*, 22 (3), Association for Temperate Agroforestry.
- Lamsal, L., U. Karki, S. Chaudhary, and D. Dhakal. 2023. Pregnant ewes and does performed better indoor vs. outdoor during winter. *Agri-Connection*, Quarterly Newsletter, June, 8 (2). Association of Nepalese Agricultural Professionals of Americas (NAPA).
- Pudota, M., V. C. Anche, A. Byars, S. Kumar, U. Karki, L. B. Karki, D. D. Davis, and S. R. Mentreddy. 2019. Alley cropping with specialty crops under pine and pecan stands. *Temperate Agroforester*, 25 (2), Association for Temperate Agroforestry.

Extension Publications

Training handbooks for specialists and county agents

- Karki, U. (Editor). 2025. *Training Handbook: Integrated Approach for Preventing Diseases and Parasites in Small Ruminants in the Southeast USA*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. LIV251101, 243 pages.
- Karki, U. (Editor). 2015. *Training Handbook: Sustainable Agroforestry Practices in the Southeastern Region, Handbook for Training Field Extension and Technical Assistance Personnel*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University and the 1890 Agroforestry Consortium, Publication No. TUAG1015-01, 173 pages.
- Karki, U. (Editor). 2013. *Training Handbook: Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region, Handbook for Training Field Extension and Technical Assistance Personnel*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01 Livestock Production, 194 pages.



Educational video

- Karki, U. (Editor, Script Writer, Director). 2014. *Educational Video: Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region*, <https://www.youtube.com/watch?v=wq9wTE7-HkA>.

10 Publications (same QR code for listed publications presented above)

- Karki, U. (Ed.). 2012. Pasture-weed identification and management. Workshop Proceedings. Tuskegee University Cooperative Extension Program. Publication No. TUAG 0812-03.

- Karki, U. 2010. Forage selection, establishment, and management in silvopasture. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. 0111-02.
- Karki, U. 2011. Goat production: colostrum for newborn kids. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0110-01.
- Karki, U. 2013. Kidding season - tips to minimize kid mortality,
- Karki, U. 2014. Goat production: care and management of newborn kids. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0914-01.
- Karki, U. 2014. Guidelines on preparing and showing meat goats: for Alabama youths. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 1014-01.
- Karki, U. 2014. Year-round pasture & grazing calendar. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 1014-01.
- Karki, U. 2017. Woodland grazing notes with research highlights. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TULIV-1017-01.
- Karki, U. and N. K. Gurung. 2009. Year-round pasture production and management. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TULV 0709-01 Livestock Production.
- Karki, U., L. B. Karki, N. K. Gurung, and A. Elliott. 2013. Cool-season forages for sustainable goat production: Research highlights. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TULIV-1311-01.

Editorial Service

- Karki, U. Editor-In-Chief. 2023-present. *Global Journal of Agricultural and Allied Sciences* (GJAAS). Nepalese Association of Agricultural Professionals of Americas, Online ISSN: 2575-1670 ||Print ISSN: 2575-1662.
- Karki, U. Handbook Editor. 2025. *Integrated Approach for Preventing Diseases and Parasites in Small Ruminants in the Southeast USA*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. LIV251101, 243 pages.
- Karki, U. Book Editor. 2017-2020. *Principles and Practices of Food Security: Sustainable, Sufficient and Safe Food for Healthy Living in Nepal*. Nepalese Association of Agricultural Professionals of Americas, 405 pages, ISBN 9 780 578 619958.
- Karki, U. Handbook Editor. 2015. *Sustainable Agroforestry Practices in the Southeastern Region, Handbook for Training Field Extension and Technical Assistance Personnel*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University and the 1890 Agroforestry Consortium, Publication No. TUAG1015-01, 173 pages.

- Karki, U. Educational Video Editor (plus Script Writer, Director). 2014. *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region*, <https://www.youtube.com/watch?v=wq9wTE7-HkA>.
- Karki, U. Handbook Editor. 2013. *Sustainable Year-Round Forage Production and Grazing/Browsing Management for Goats in the Southern Region, Handbook for Training Field Extension and Technical Assistance Personnel*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG0213-01 Livestock Production, 194 pages.
- Karki, U. Journal Editor. 2016-2022. *Global Journal of Agricultural and Allied Sciences*, Nepalese Association of Agricultural Professionals of Americas, Online ISSN: 2575-1670 ||Print ISSN: 2575-1662.
- Karki, U. Journal Editor. 2019-present. *Agroforestry Systems*, Special Issue for 2019 North American Agroforestry Conference.
- Karki, U. Newsletter Editor. 2015-2019. *Agroforester Newsletter*, Association for Temperate Agroforestry <https://aftaweb.org/>.
- Karki, U. Workshop Proceedings Editor. 2012. *Pasture-Weed Identification and Management Workshop Proceedings*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0812-03, 48 pages.
- Karki, U. Workshop Proceedings Editor. 2013. *Integrated Management of Internal Parasites in Goats Workshop Proceedings*. Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Publication No. TUAG 0513-01, 52 pages.

Invited Speaker

Total count 14

- Karki, U. 2025. Climate-resilient and sustainable animal production to thrive farming and food system. February 2, International Conference on Agricultural Transformation for Sustainable Food System, February 2-4, Agriculture and Forestry University Rampur, Chitwan, Nepal.
- Karki, U. 2024. Agroforestry practices to promote climate-resilient and sustainable animal production systems. Ecological Impact on Agriculture, Business and Technology Conference, June 18-19, Agriculture & Forestry University, Rampur, Chitwan, Nepal.
- Karki, U. 2024. Forage management & supplementation for small ruminants. Virtual training event, May 14, Alabama Cooperative Extension System.
- Karki, U. 2024. Climate-Change impact and small ruminant farming. March 1, Alabama State Association of Cooperatives (ASAC) Inaugural Spring Workshop, Epes, AL.
- Karki, U. 2024. Basics of sustainable small ruminant production. February 24, SIFAT La Tigra, Costa Rica.
- Karki, U. 2024. FAMACHA and Smart Drenching. February 24-25, SIFAT La Tigra, Costa Rica.
- Karki, U. 2024. Climate-Smart agricultural practices & opportunities for farmers. February 15, Council on Food, Agriculture and Resource Economics-CFARE Webinar.

- Karki, U. 2023. Small ruminants: Production basics. Operation grow boot camp. Alabama Extension and Alabama Department of Agriculture & Industries, May 25, Pike Road Ag Center, 6281 Trotman Road, Montgomery, AL 36116.
- Karki, U. 2022. Agroforestry research and extension: case of Alabama and Southeast. Special Session: Food Security. ARD Research Symposium, April 2-5, Atlanta Marriott Marquis, Atlanta, GA. (*oral presentation*)
- Karki, U. 2021. Year-round grazing management. The Fourth National Goat Conference, Sept. 20-21. Virtual (Abstract & oral presentation).
- Karki, U. 2020. Use of silvopastures and woodlands to expand the grazing opportunity for small ruminants. ASAS Southern Section Meeting, January 25-28, Chatanooga, TN. (*Invited speaker; Abstract and oral presentation*) *Journal of Animal Science*, Volume 98, Issue Supplement_2, November 2020, Pages 67–68, <https://doi.org/10.1093/jas/skz397.157>
Published: 28 November 2020
- Karki, U. 2018. Year-round forage production for sustainable goat farming. The Third National Goat Conference, Sept. 16-18, Kellogg Conference Center, Tuskegee University, Tuskegee, AL 36088 and Renaissance Hotel, Montgomery, AL. (Abstract and proceedings paper - oral presentation).
- Karki, U. 2014. Winter forages for sustainable goat production. 2014 American Forage and Grassland Council (AFGC) Annual Conference. January 12-14, Hilton in Memphis, Tennessee.
- Karki, U. 2013. Healthy pastures for goats. The second National Goat Conference, September 15-19, Sheraton Greensboro Hotel, Greensboro, North Carolina.

Scientific Conference Abstracts, Presentations, and Proceedings Papers

Total 178

- Karki, U., A. Acharya, S. Acharya, M. Dumre, and A. Kumi. 2026. Seasonal variation in greenhouse gases and soil moisture and temperature between silvopasture and open pasture managed with small ruminants. 5th Biennial International Scientific Conference, May 26-28, Indianapolis, Indiana (*Abstract accepted for oral presentation*).
- Acharya, S., U. Karki, A. Acharya, and M. Dumre. 2026. Potential of southern-pine silvopasture to mitigate heat stress in hair sheep during summer. 5th Biennial International Scientific Conference, May 26-28, Indianapolis, Indiana (*Abstract accepted for oral presentation and student competition*).
- Dumre, M., U. Karki, S. Acharya, A. Acharya. 2026. Evaluation of non-chemical products to control gastrointestinal nematode parasites and enhance immunity and performance of goat kids. 5th Biennial International Scientific Conference, May 26-28, Indianapolis, Indiana (*Abstract accepted for poster presentation and student competition*).
- Karki, U., A. Acharya, S. Acharya, M. Dumre, and A. Kumi. 2026. Differences in greenhouse gases, soil moisture, and soil temperature between southern-pine silvopasture and open pasture. 22nd ARD Biennial Research Symposium, March 28 – March 31, 2026, Hyatt Regency New Orleans (*Abstract accepted for oral presentation*).
- Acharya, S., U. Karki, A. Acharya, and M. Dumre. 2026. Differences in solar radiation and animal immunity between southern-pine silvopasture and open pasture during summer. 22nd ARD Biennial Research Symposium, March 28 – March 31, 2026, Hyatt Regency New Orleans (*Abstract accepted for oral presentation*).

- Acharya, A., U. Karki, S. Acharya, and M. Dumre. 2026. Comparison of southern pine silvopasture and open pasture for climate parameters and animal stress during summer. 22nd ARD Biennial Research Symposium, March 28 – March 31, 2026, Hyatt Regency New Orleans. (*Abstract accepted for poster presentation*)
- Acharya, A., U. Karki, S. Acharya, and M. Dumre. 2026. Silvopasture provided milder microclimate and reduced stress in goats compared to open pasture during summer. February 19-20, 134th Annual Farmers Conference, Tuskegee University, Tuskegee, Alabama (*Abstract and poster presentation and student competition*).
- Acharya, S., U. Karki, A. Acharya, and M. Dumre. 2026. Silvopasture produced better quality forage and reduced enteric methane emission from hair sheep compared to open pasture in summer. February 19-20, 134th Annual Farmers Conference, Tuskegee University, Tuskegee, Alabama (*Abstract, oral presentation, and student competition*).
- Karki, U., S. Acharya, A. Acharya, M. Dumre, and S. Sharma. 2026. Farm evaluation of a biological product to control gastrointestinal nematodes in pasture-raised goats. January 25-27, 2026, Embassy Suites Northwest Arkansas Hotel, Spa & Convention Center, Rogers, Arkansas. (*Abstract; oral presentation – travel cancelled because of inclement weather*). *Journal of Animal Science*, Volume 104, Issue Supplement_2, April 2026, skag057.112, <https://doi.org/10.1093/jas/skag057.112> **Published:** 02 April 2026
- Acharya, A., U. Karki, S. Acharya, and M. Dumre. 2026. Differences in forage quality and hematological parameters of Kiko goats grazing southern pine silvopasture and open pasture during summer. January 25-27, 2026, Embassy Suites Northwest Arkansas Hotel, Spa & Convention Center, Rogers, Arkansas. (*Abstract for oral presentation – travel cancelled because of inclement weather*). *Journal of Animal Science*, Volume 104, Issue Supplement_2, April 2026, skag057.113, <https://doi.org/10.1093/jas/skag057.113> **Published:** 02 April 2026
- Acharya, S., U. Karki, A. Acharya, and M. Dumre. 2026. Potential of Southern Pine Silvopasture to Mitigate Enteric Methane Emission from and Enhance Performance of Hair Sheep. January 25-27, 2026, Embassy Suites Northwest Arkansas Hotel, Spa & Convention Center, Rogers, Arkansas. (*Abstract for oral presentation – travel cancelled because of inclement weather*). *Journal of Animal Science*, Volume 104, Issue Supplement_2, April 2026, skag057.013, <https://doi.org/10.1093/jas/skag057.013> **Published:** 02 April 2026
- Acharya, S., U. Karki, A. Acharya, and M. Dumre. 2025. Enteric methane emission and performance of hair sheep grazing southern pine silvopasture and open pasture. The 83rd Professional Agricultural Workers Conference, Nov. 16-18, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*).
- Acharya, A., U. Karki, S. Acharya, and M. Dumre. 2025. Enteric methane emissions and performance of Kiko does raised in open pasture and silvopasture during summer. The 83rd Professional Agricultural Workers Conference, Nov. 16-18, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*).
- Dumre, M. and U. Karki. 2025. Non-chemical methods for controlling gastrointestinal nematodes in small ruminants: a review. The 83rd Professional Agricultural Workers Conference, Nov. 16-18, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*).

- Karki, U., D. O'Brien, A. McKenzie-Jakes, T. Gibson, R. Browning, A. Pellerin, and B. Kouakou. 2025. Farm characteristics and perspectives of meat-goat farmers from the southeast USA. Southern Section /Western Section Joint Meeting, April 5-8, Sheraton Arlington Hotel, Arlington, Texas (*Abstract and oral presentation*).
- White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2025. Evaluating the effect of Livamol with BioWorma in controlling gastrointestinal nematodes and improving performance in does during late pregnancy and early lactation. Southern Section /Western Section Joint Meeting, April 5-8, Sheraton Arlington Hotel, Arlington, Texas (*Abstract and oral presentation – 3-minute student competition*).
- White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2025. Evaluating the effect of Livamol with BioWorma in controlling gastrointestinal nematodes and improving performance in does during late pregnancy and early lactation. Exert graduate student competition, Farmers conference, March 17-19 (*Abstract and oral presentation; 1st winner*).
- Acharya, A., and U. Karki. 2025. The role of supplement feeding in minimizing greenhouse gas emissions from ruminants - a meta-analysis. Exert graduate student competition, Farmers conference, March 17-19 (*Abstract and oral presentation; 3rd winner*).
- Karki, U. 2024. Greenhouse gas emissions from livestock production systems and mitigation strategies, presented at the session - Strategies to Transition towards Climate-Smart Crop and Livestock Production Practices and chaired the session. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation; chaired the session*).
- White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2024. Effect of Livamol with BioWorma on hematological parameters in Kiko does during late pregnancy and early lactation. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*).
- Acharya, A., U. Karki, and E. White. 2024. Comparison of greenhouse gas emission from silvopasture and open pasture during summer: preliminary research. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and poster presentation*).
- Acharya, S., N. Shah. U. Karki. 2024. Comparison of greenhouse gas emission from silvopasture and open pasture during summer: preliminary research. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*).
- Bhattra, S., U. Karki, and B. Paneru. 2019. Vegetation height and diurnal period influenced the behaviors and distribution patterns of small ruminants in woodlands during fall. The 16th North American Agroforestry Conference, June 24-27, Oregon State University, Corvallis, OR. (*Abstract and oral presentation*).
- Bhattra, S., U. Karki, and S. Poudel. 2018. Assessing grazing impacts of Kiko wethers and Katahdin rams on understory light penetration in woodlands. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and oral presentation*).

- Bhattraï, S., U. Karki, and S. Poudel. 2018. Diurnal behavior and distribution pattern of Kiko wethers and Katahdin rams in woodlands. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and poster presentation*)
- Bhattraï, S., U. Karki, and S. Poudel. 2018. Performance of Kiko wethers and Katahdin rams raised on different grazing systems. The Third National Goat Conference, September 16-18, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee and Renaissance Hotel, Montgomery, AL. (*Abstract and poster presentation*)
- Bhattraï, S., U. Karki, and S. Poudel. 2018. Small ruminants' preference for and performance on woodland vegetation maintained at different heights during fall. American Society of Animal Science (ASAS)-Canadian Society of Animal Science (CSAS) Annual Meeting and Trade Show. July 8-12, Vancouver, Canada. (*Abstract and poster presentation*)
- Bhattraï, S., U. Karki, and S. Poudel. 2019. Vegetation characteristics and diurnal periods influenced the landscape-use pattern of goats and sheep in woodlands. ASAS Southern Section Meeting, January 26-29, Oklahoma City, OK. (*Abstract and oral presentation*) *Journal of Animal Science*, Volume 97, Issue Supplement_1, Pages 72–73, <https://doi.org/10.1093/jas/skz053.164>.
- Bhattraï, U. Karki, B. Paneru, and N. Ellis. 2019. Woodland grazing with altering understory vegetation height: performance and plant preference of small ruminants. ASAS-Canadian Society of Animal Science (CSAS) Annual Meeting and Trade Show. July 8-11, Austin Convention Center, Austin, TX. (*Abstract and poster presentation*) *Journal of Animal Science*, Volume 97, Issue Supplement_3, Pages 230–231, <https://doi.org/10.1093/jas/skz258.469>.
- Byrd, J., U. Karki, R. Khatri, A. Kumi, A. Elliott, and N. Gurung. 2014. Soil quality and tree parameters in a newly developed silvopasture system. The 72nd Professional Agricultural Workers Conference, December 7-9, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Chaudhary, S., B. Shrestha, L. Karki, Anand Tiwari, and U. Karki. 2022. Cost of feeding and performance of small ruminants during the lean period of forage production. Nepalese Agricultural Professionals of Americas (NAPA), the third Biennial International Scientific Conference. May 27-29, Sonesta Hotel, Atlanta, GA. (*Abstract and poster presentation – won 2nd prize in graduate student poster competition*)
- Chaudhary, S., U. Karki, B. Shrestha, and S. Lamsal. 2022. Effect of age on the performance of Kiko does raised on cool-season pastures. 13th International Goat Conference, September 20-22. Virtual. (*Abstract and poster presentation*)
- Chaudhary, S., U. Karki, B. Shrestha, and S. Lamsal. 2022. Influence of supplement type on the prevalence of gastrointestinal parasites in nursing ewes and lambs raised in woodlands. The 80th Professional Agricultural Workers Conference, November 13-15, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, Alabama. (*Abstract and oral presentation; participated in the graduate student competition*)
- Chaudhary, S., U. Karki, B. Shrestha, and S. Lamsal. 2023. Soybean-supplemented nursing ewes showed better performance and health status than corn-supplemented ewes stocked in woodlands. ASAS Annual Meeting, July 16-20, 2023, Albuquerque Convention Center, Albuquerque, NM. (*Abstract & poster presentation*)
- Chaudhary, S., U. Karki, B. Shrestha, and S. Lamsal. 2023. Supplement type influenced the immune response of nursing ewes to the natural challenge of gastrointestinal parasites while grazing in woodlands. ASAS (Southern Section) Meeting, January 21-24, 2023, at

- the Hilton Raleigh North Hills Raleigh, NC. (*Abstract & oral presentation*). *Journal of Animal Science*, Volume 101, Issue Supplement_1, May 2023, Pages 25–26, <https://doi.org/10.1093/jas/skad068.029>
- Devkota, I., H. B. Basnet, and U. Karki. 2020. Cattle milk production and marketing chain in bharatpur-16, Chitwan, Nepal. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and poster presentation*)
- Dhakal, D., U. Karki, S. Chaudhary, and S. Lamsal. 2023. Livamol with BioWorma reduced the gastrointestinal nematode EPG in nursing Kiko does raised on pastures. The 81st Professional Agricultural Workers Conference, October 29-31, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL.
- Dhakal, D., U. Karki, S. Chaudhary, and S. Lamsal. 2024. Effects of Livamol with BioWorma on the performance of nursing Kiko does and kids raised in pastures. ARD Research Symposium, April 6-9, Gaylord Opryland Hotel, Nashville, TN. (*Abstract and poster presentation*)
- Dhakal, D., U. Karki, S. Chaudhary, and S. Lamsal. 2024. Efficacy of Livamol with BioWorma for controlling gastrointestinal nematode in nursing Kiko does raised in pastures. ASAS (Southern Section) Meeting, January 27-30, 2024, at the Omni Louisville Hotel Louisville, Kentucky. (*Abstract and oral presentation*).
- Dhakal, D., U. Karki, S. Chaudhary, and S. Lamsal. 2024. Impact of Livamol with BioWorma on hematological and biochemical parameters of nursing Kiko does raised on pastures. Nepalese Agricultural Professionals of Americas (NAPA), the 4th Biennial International Scientific Conference. May 24-26, Baltimore, MD. (*Abstract a for accepted for presentation*).
- Ellis, N., U. Karki, B. Paneru, and S. Bhattarai. 2020. Health parameters of hair sheep raised in silvopasture and woodland systems. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract*)
- Ellis, N., U. Karki, B. Paneru, S. Bhattarai, and L. Karki. 2020. Health and performance of ewes in woodland and silvopasture systems. ASAS Southern Section Meeting, January 25-28, Chattanooga, TN. (*Abstract and oral presentation*)
- Howard, I., A. S. Kumi, N. K. Gurung, U. Karki, R. Smith, S. G. Solaiman, W.H. McElhenney, and B. R. Min. 2012. Impact of different stocking rates of meat goats under pine silvopasture systems on understory biomass, crown cover density, and animal productivity. ASAS – American Dairy Science Association (ADSA) Joint Annual Meeting, July 15-19, Phoenix, AZ. (*Abstract and poster presentation*)
- Johnson, J. L., U. Karki, A. Tiwari, K. Norwood, and L. Karki. 2021. Load of gastrointestinal parasites in small ruminants with or without leguminous forages during the fall season. The 17th North American Agroforestry Conference, June 28-July 2, Virtual. (*Abstract and oral presentation*)
- Johnson, J. L., U. Karki, A. Tiwari, K. Norwood, and L. Karki. 2020. Load of gastrointestinal parasites in small ruminants with or without leguminous forages during the fall season. The 78th Professional Agricultural Workers Conference, December 6-8, Tuskegee University, Tuskegee, AL, Virtual. (*Abstract and oral presentation*)
- Karki, L. and U. Karki. 2020. Need for financial education in high school curricula: a case of rural Nepal. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and oral presentation*)

- Karki, L. B. and U. Karki. 2013. Winter forage program promotes the sustainability of goat farming. The Professional Agricultural Workers Conference, December 8-10, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)
- Karki, L. B. and U. Karki. 2022. Market potential for lamb and chevon in the USA. 13th International Goat Conference, September 20-22. Virtual. (*Abstract and poster presentation*)
- Karki, L. B., G. Harris, T. Hargrove, N. Baharanyi, U. Karki, and Y. Diabate. 2017. Factors minimizing financial risk: a case of limited resource producers of Alabama. The 75th Professional Agricultural Workers Conference, December 3-5, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, L. B., N. Baharanyi, U. Karki, and A. Agbogun. 2016. Developing young entrepreneurs in agribusiness: challenges and opportunities. The 47th Annual Meeting of the Southern Rural Sociological Association, February 5-9, San Antonio, TX. (*Abstract and oral presentation*)
- Karki, L. B., N. Baharanyi, U. Karki, and E. Scott. 2016. Assessing financial education needs and Extension deliverables for students. The 47th Annual Meeting of the Southern Rural Sociological Association, February 5-9, San Antonio, TX. (*Abstract and oral presentation*)
- Karki, L. B., N. Baharanyi, U. Karki, and Y. Diabate. 2015. Training needs for limited resource families on personal finance management. AFCPe® Annual research & Training Symposium Program, November 18-20, Jacksonville, FL. (*Abstract and poster presentation*)
- Karki, L. B., U. Karki, and N. Baharanyi. 2015. The socio-economic impact of a good agricultural practice to feed the future. The 73rd Professional Agricultural Workers Conference, December 6-8, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)
- Karki, L. B., U. Karki, and S. R. Mentreddy. 2019. Market potential for specialty vegetables and tree nuts in the southeast USA. Association of Research Directors (ARD) Research Symposium, March 30-April 3, Hyatt Regency Jacksonville, FL. (*Abstract and oral presentation*)
- Karki, L. B., U. Karki, S. Bhattarai, and B. Paneru. 2019. Impact of woodland grazing in minimizing production costs for raising animals in the Southeast. The 16th North American Agroforestry Conference, June 24-27, Oregon State University, Corvallis, OR. (*Abstract and oral presentation*)
- Karki, L. B., U. Karki, S. R. Mentreddy, S. Bambo. 2017. Impact of agroforestry educational program: a case of Alabama. The 15th North American Agroforestry Conference, June 27-29, Virginia Tech, Squires Student Center, Blacksburg, VA. (*Abstract and oral presentation*)
- Karki, L. B., U. Karki, S. R. Mentreddy, S. Poudel, and S. Bhattarai. 2018. Market opportunity for goat and lamb meat in the southeastern US. ASAS-CSAS Annual Meeting and Trade Show. July 8-12, Vancouver, Canada (*Abstract and oral presentations*). *Journal of Animal Science*, Volume 96, Issue Supplement_3, Pages 195-196, <https://doi.org/10.1093/jas/sky404.424>.

- Karki, L., U. Karki, and A. Tiwari. 2021. Woodland grazing: untapped resource to increase economic benefits from forestland. ASAS-CSAS-Southern Section ASAS (SSASAS) Annual Meeting, July 14-18, Kentucky International Convention Center, Louisville, KY & Virtual. (*Abstract and oral presentation*)
- Karki, L., U. Karki, and B. Paneru. 2019. Economic potentials of integrated approach for controlling animal diseases and parasites over traditional approach: the case of small producers in rural Alabama. The 77th Professional Agricultural Workers Conference, December 8-10, Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, L., U. Karki, and S. R. Mentreddy. 2020. Economic potential of specialty vegetable - bitter melon - in the southeast USA. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and oral presentation*)
- Karki, L., U. Karki, and S. R. Mentreddy. 2020. Market potential for specialty vegetables in the southeast USA: scope and opportunities for small-scale producers. The 52nd Annual Meeting of Southern Agricultural Economics Association, February 1-4, Louisville, KY. (*Abstract and oral presentation*)
- Karki, L., U. Karki, G. Joshi, and J. Yabi. 2020. Students' preference for and perception of agricultural education: a case of rural Nepal. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and oral presentation*)
- Karki, L., U. Karki, S. R. Mentreddy. 2020. Possibility of shifting domestic supply curve for lamb and goat meat: the case of market price information in the southeast USA. ASAS Southern Section Meeting, January 25-28, Chattanooga, TN. (*Abstract and oral presentation*)
- Karki, L., U. Karki, T. Hargrove, and N. Baharanyi. 2018. Economic implications of year-round forage production and grazing management. The 76th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, U., S. Lamsal, D. Dhakal, B. Paneru, S. Chaudhary, and E. White. 2024. Use of small ruminants to reduce the fuel build-up in woodlands. 18th North American Agroforestry Conference. February 20-22, 2024, CATIE in Turrialba, Costa Rica. (*Abstract & oral presentation*)
- Karki, U. 2008. N source and tree interactions influence forage productivity and quality in developing silvopasture. Graduate Student Council (GSC), March 10-12, Auburn University, Auburn, AL. (*Abstract and poster presentation*)
- Karki, U. 2013. Year-round pastures for goats: sharing project experiences and outcomes. The second National Goat Conference, September 15-19, Sheraton Greensboro Hotel, Greensboro, NC. (*Abstract and poster presentation*)
- Karki, U. 2014. Educational materials and programs on sustainable livestock production. The 72nd Professional Agricultural Workers Conference, December 7-9, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)
- Karki, U. 2014. Integrating research, education, and multistate approach to the Tuskegee University Cooperative Extension. Success Stories. The 72nd Professional Agricultural

- Workers Conference, December 7-9, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Oral presentation*)
- Karki, U. 2015. Agroforestry research and extension education program at Tuskegee University. The 73rd Professional Agricultural Workers Conference, December 6-8, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)
- Karki, U. 2016. Integrated approach for managing gastrointestinal parasites in goats. The 74th Professional Agricultural Workers Conference, December 4-6, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)
- Karki, U. 2016. Strategies to enhance the sustainability of small-scale goat production. The 7th National Small Farm Conference, September 20-22, Virginia Beach Convention Center, Virginia Beach, VA. (*Abstract, oral presentation, and proceedings paper*)
- Karki, U. 2017. Sustainable management of southern-pine silvopastures using small ruminants. Presented in Silvopasture and Woodland Grazing for Sustainable Resource Management Workshop. The 75th Professional Agricultural Workers Conference, December 3-5, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, U. 2018. Chaired the SCC81 Sustainable small ruminant in the Southeastern Region session and presented TU station report. ASAS Southern Section Meeting, February 3-6, Fort Worth, TX. (*Station report and oral presentation*)
- Karki, U. 2018. Sustainable pasture improvement and grazing management education program for farmers. ASAS Southern Section Meeting, February 3-6, Fort Worth, TX. (*Abstract and oral presentation*). *Journal of Animal Science*, Volume 96, Issue Supplement_1, Pages 10–11, <https://doi.org/10.1093/jas/sky027.020>.
- Karki, U. 2023. Overview of climate change and mitigation strategies. The 81st Professional Agricultural Workers Conference, October 29-31, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL.
- Karki, U. 2024. Greenhouse gas emissions from livestock production systems and mitigation strategies, presented at the session - Strategies to Transition towards Climate-Smart Crop and Livestock Production Practices and chaired the session. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation; chaired the session*).
- Karki, U. 2024. Transitioning towards the Climate-Smart ruminant livestock production system to mitigate global warming – a review. Nepalese Agricultural Professionals of Americas (NAPA), the 4th Biennial International Scientific Conference. May 24-26, Baltimore, MD. (*Abstract accepted for oral presentation*)
- Karki, U. and L. Karki. 2018. Pasture and grazing management education program: changing the face of small-scale livestock operations in Alabama. The 76th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, U. and M. S. Goodman. 2011. Microclimatic differences between young longleaf-pine silvopasture and open-pasture. The 12th North American Agroforestry Conference, June 4-9, the Georgia Center, Athens, GA. (*Abstract and oral presentation*)

- Karki, U. and M. S. Goodman. 2013. Microclimatic diversity between mature loblolly-pine silvopasture and open pasture. The 17th Biennial Research Symposium, Association of Research Directors, April 6-10, Hyatt Regency Jacksonville Riverfront, Jacksonville, FL. (*Abstract and oral presentation*)
- Karki, U., A. Tiwari, J. Johnson, K. Norwood, and L. Karki. 2022. Developing an integrated approach for preventing diseases and parasites in small ruminants in the Southeast. ARD Research Symposium, April 2-5, Atlanta Marriott Marquis, Atlanta, GA. (*Abstract & oral presentation*)
- Karki, U., A. Tiwari, K. Norwood, J. Johnson, and L. Karki. 2021. The extent and pattern of correlation among blood parameters differed between pasture-raised goats and sheep. ASAS-CSAS-SSASAS Annual Meeting, July 14-18, Kentucky International Convention Center, Louisville, KY & Virtual. (*Abstract and oral presentation*)
- Karki, U., A. Tiwari, K. Norwood, J. Johnson, and L. Karki. 2021. Body condition score for monitoring the performance and health of small ruminants in field conditions. ASAS-CSAS-SSASAS Annual Meeting, July 14-18, Kentucky International Convention Center, Louisville, KY & Virtual. (*Abstract and oral presentation*)
- Karki, U., B. Paneru, A. Tiwari, N. Ellis, S. Bhattarai, L. Karki, and S. Poudel. 2022. Silvopastures showed better soil quality and growth of southern pines vs. woodlands when both systems were integrated with small ruminants. 5th World Congress on Agroforestry: Transiting to a Viable World, Quebec City, July 17-20. (Hybrid) Attended virtually. (*Abstract and virtual – 3-minute video presentation*)
- Karki, U., B. Paneru, A. Tiwari, N. Ellis, S. Bhattarai, L. Karki, and S. Poudel. 2021. Soil quality and growth of southern pines in silvopastures and woodlands integrated with small ruminants. The 17th North American Agroforestry Conference, June 28-July 2, Virtual. (*Abstract and oral presentation*)
- Karki, U., B. Paneru, S. Bhattarai, N. Ellis, and L. Karki. 2020. Woodlands for expanding the grazing opportunity for small ruminants in the Southeast: challenges and opportunities. ASAS-CSAS-Western Section ASAS Annual Meeting and Trade Show, July 19-23, Virtual. (*Abstract and oral presentation*) *Journal of Animal Science*, Volume 98, Issue Supplement_4, Pages 172–73, <https://doi.org/10.1093/jas/skaa278.317>.
- Karki, U., B. Paneru, S. Bhattarai, R. Khatri, N. Ellis, L. Karki, and S. Poudel. 2020. Integrating woodlands and animal production: whole-system approach to promote sustainable agriculture. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and oral presentation*)
- Karki, U., B. Shrestha, S. Chaudhary, A. Tiwari, and L. Karki. 2022. Costs for supplementing small ruminants under the various grazing-based production systems. ASAS-CSAS Annual Meeting, June 26-30, at the Oklahoma City Convention Center, Oklahoma City, OK. (*Abstract & oral presentation*)
- Karki, U., B. Shrestha, S. Chaudhary, A. Tiwari, J. Johnson, K. Norwood, and L. Karki. 2022. Comparative Performance of Meat Goats and Hair Sheep Raised in the Pasture-Based Production System. Nepalese Agricultural Professionals of Americas (NAPA), the third Biennial International Scientific Conference. May 27-29, Sonesta Hotel, Atlanta, GA. (*Abstract and oral presentation*)
- Karki, U., D. Jenkins, N. Gurung, W. McElhenney, and A. Kumi. 2015. Grazing/browsing behavior and distribution patterns of meat goats confined in small plots. ASAS Southern Section Meeting, January 31-February 3, Atlanta, GA. (*Abstract and oral presentation*)

- Karki, U., D. O'Brien, A. McKenzie-Jakes, T. Gibson, R. Browning, A. Pellerin, and B. Kouakou. Challenges of Producers in marketing meat goats and their products in the southeast USA. ARD Research Symposium, April 6-9, Gaylord Opryland Hotel, Nashville, TN. (*Abstract and oral presentation*)
- Karki, U., I. Williams, J. T. B. Milton, and L. McCann. 2010. Brief pre-partum supplementation increased colostrum production in maiden Cashmere does. The First National Goat Conference, September 12-15, Florida A&M University, Tallahassee, FL. (*Abstract and poster presentation*)
- Karki, U., J. Idassi, S. R. Mentreddy, N. Gurung, C. Christian, G. Boyd, O. Onokpise, L. Karki, Y. Diabate, and S. Bambo. 2016. Agroforestry education: key to sustainable land management and diversified income. Southern Sustainable Agriculture Working Group Conference, January 27-30, Lexington, KY. (*Abstract and poster presentation*)
- Karki, U., J. Idassi, S. R. Mentreddy, N. Gurung, C. Christian, G. Boyd, O. Onokpise, L. Karki, Y. Diabate, and S. Bambo. 2015. Trainers' training in agroforestry practices in the Southeastern Region: 1890 Agroforestry Consortium Initiative. The 14th North American Agroforestry Conference, June 1-3, Ames, IA. (*Abstract and poster presentation*)
- Karki, U., L. B. Karki, and N. Gurung. 2019. Integrated approach for controlling diseases and parasites in small ruminants: Extension education and adoption. ASAS-CSAS Annual Meeting and Trade Show, July 8-11, Austin Convention Center, Austin, TX. (*Abstract and oral presentation*) *Journal of Animal Science*, Volume 97, Issue Supplement_3, Pages 87–88, <https://doi.org/10.1093/jas/skz258.180>.
- Karki, U., L. B. Karki, N. Gurung, and A. Elliott. 2014. Winter forages for sustainable goat production. American Forage and Grassland Council Conference, January 12-14, Memphis, TN. (*Abstract and oral presentation*)
- Karki, U., L. B. Karki, N. K. Gurung, and A. Elliott. 2012. Sustainable goat farming: pasture enhancement and identification of suitable forages for goats. ADSA-ASAS Joint Annual Meeting, July 15-19, Phoenix, AZ. (*Abstract and oral presentation*)
- Karki, U., L. B. Karki, N. K. Gurung, and A. Elliott. 2014. Suitable winter forages for goats: productivity, quality, and goats' preference. ASAS Southern Section Meeting, February 1-4, Dallas, TX. (*Abstract and oral presentation*)
- Karki, U., L. Karki, N. Gurung, R. Lemus, S. Hart, K. Cearley, S. Enloe, E. Jolley, and M. Edmonson. 2014. Sustainable year-round forage production and grazing/browsing management education program. ADSA-ASAS-CSAS Joint Annual Meeting, July 20–24, Kansas City, MO. (*Abstract and poster presentation*)
- Karki, U., L. Karki, S. Bhattarai, and S. Poudel. 2018. Use of woodlands for extending the grazing opportunity for goats and reducing the production costs. The Third National Goat Conference, September 16-18, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee and Renaissance Hotel, Montgomery, AL. (*Abstract and poster presentation*)
- Karki, U., M. S. Goodman, and S. E. Sladden. 2007. N source influences on forage and soil in southern-pine silvopasture versus open-pasture. In A. Olivier and S. Campeau (eds.), the 10th North American Agroforestry Conference, June 10-14. Pages 231-241. Agriculture and Agri-Food Canada, Association for Temperate Agroforestry (AFTA), and Université Laval, Québec City, Canada. (*Abstract, oral presentation, and proceedings paper*)
- Karki, U., M. S. Goodman, and S. E. Sladden. 2008. Forage productivity and quality dynamics in southern-pine silvopasture versus open-pasture. American Forage and Grassland

- Council and Society for Range Management Joint Annual Meeting, January 26-31, Louisville, KY. (*Abstract and oral presentation*)
- Karki, U., M. S. Goodman, and S. E. Sladden. 2011. Plant-community characteristics of bahiagrass pasture during conversion to longleaf-pine silvopasture. The 12th North American Agroforestry Conference, June 4-9, the Georgia Center, Athens, GA. (*Abstract and oral presentation*)
- Karki, U., N. Baharanyi, D. Moxey, A. Elliott, J. Moore, A. Jackson, and W. Baldwin. 2011. Extension education and research needs of livestock farmers in Alabama. The 16th Biennial Research Symposium, Association of Research Directors, April 9-13, Atlanta Marriott Marquis, Atlanta, GA. (*Abstract and poster presentation*)
- Karki, U., N. Gurung, and A. Elliott. 2012. Winter forages for goats for developing year-round grazing system. The 70th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract, oral presentation, proceedings paper*)
- Karki, U., N. Gurung, and N. Baharanyi. 2010. Short-term impact and evaluation of Tuskegee University extension education programs. The 68th Professional Agricultural Workers Conference, December 5-7, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract, poster presentation, and proceedings paper*)
- Karki, U., N. K. Gurung, A. Elliott, and J. Moore. 2012. Working with small farmers for promoting sustainable livestock production system. The 6th National Small Farm Conference, September 18-20, Tennessee State University, Memphis, TN. (*Abstract, oral presentation, and proceedings paper*)
- Karki, U., N. K. Gurung, A. Elliott, L. B. Karki, and O. Bolden-Tiller. 2011. Current situation and further training needs: a case of master goat producers. ADSA-ASAS Joint Annual Meeting, July 10-14, New Orleans, LA. (*Abstract and poster presentation*). *Journal of Animal Science*, Volume 89, E-Supplement 1, Extension Page 43, <http://www.jtmtg.org/JAM/2011/abstracts/0040.PDF>.
- Karki, U., N. K. Gurung, J. Moore, and A. Elliott. 2012. Year-round pasture production and grazing/browsing management: A package program for limited resource livestock producers. Extension Administrators' System-wide Conference, June 24-28, Memphis, TN. (*Abstract and poster presentation*)
- Karki, U., N. Whitley, J. Burke, L. B. Karki, S. Hart, S. Kerr, and N. Gurung. 2023. Curricula-based trainers' training: integrated approach for preventing diseases and parasites in small ruminants in the Southeast. ASAS Annual Meeting, July 16-20, 2023, Albuquerque Convention Center, Albuquerque, NM. (*Abstract & oral presentation*)
- Karki, U., R. Khatri, J. Bettis, and Y. Karki. 2017. Management of understory vegetation in woodlands with Kiko goats. The 15th North American Agroforestry Conference, June 27-29, Virginia Tech, Squires Student Center, Blacksburg, VA. (*Abstract and oral presentation*)
- Karki, U., R. Khatri, L. Karki, S. Bhattarai, S. Poudel, and A. Tillman. 2019. Nutrient content of common forage and browse species available in different grazing systems. The 77th Professional Agricultural Workers Conference, December 8-10, Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Karki, U., R. Khatri, S. Poudel, L. B. Karki, S. Bhattarai, and P. K. Biswas. 2019. The potential of plant diversity for promoting the sustainability of small-ruminant production systems.

- The 20th Biennial Research Symposium, Association of Research Directors, March 30-April 3, Hyatt Regency Jacksonville, FL. (*Abstract and oral presentation*)
- Karki, U., S. Bambo, N. Gurung, L. Karki, B. Min, E. Jolley, A. Kumi, A. Elliott, and J. Moore. 2016. Sustainable livestock production through year-round forage production and grazing management. Southern Sustainable Agriculture Working Group Conference, January 27-30, Lexington, KY. (*Abstract and poster presentation*)
- Karki, U., S. Bhattarai, S. Poudel, and B. Paneru. 2019. Southern pines performed better in silvopastures than in woodland grazing system. The 16th North American Agroforestry Conference, June 24-27, Oregon State University, Corvallis, OR. (*Abstract and oral presentation*)
- Karki, U., S. Poudel, S. Bhattarai, L. B. Karki, and A. K. Singh. 2018. Performance and carcass characteristics of Kiko wethers finished on pasture and browse. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and presentation*)
- Karki, U., S. Poudel, S. Bhattarai, L. B. Karki, and A. K. Singh. 2018. Performance, carcass characteristics, and meat quality of Kiko wethers finished on pasture and browse. ASAS-CSAS Annual Meeting and Trade Show, July 8-12, Vancouver, Canada. (*Abstract and oral presentations*)
- Karki, U., S. Poudel, Y. Karki, and A. Tillman. 2017. Prevalent weeds in the southern-pine silvopasture system managed with Kiko wethers. ASAS-CSAS Annual Meeting and Trade Show, July 8-12, Baltimore, MD. (*Abstract and oral presentation*) *Journal of Animal Science*, Volume 95, Issue Supplement_4, Page 331, <https://doi.org/10.2527/asasann.2017.677>.
- Karki, U., Y. Karki, A. Tillman, R. Khatri, S. Poudel, N. Gurung, S. Kumi, B. Min. 2017. Suitable forages to be grown in southern-pine silvopasture systems for goats. The 19th Biennial Research Symposium, Association of Research Directors, April 1-4, Hyatt Regency Atlanta, GA. (*Abstract and poster presentation*)
- Karki, U., Y. Karki, R. Khatri, A. Tillman, and N. Gurung. 2017. Grazing behavior and distribution patterns of Kiko wethers in southern-pine silvopastures. ASAS Southern Section Meeting, February 2-7, Franklin, TN. (*Abstract and oral presentation*)
- Karki, U., Y. Karki, R. Khatri, A. Tillman, N. Gurung, and A. Kumi. 2017. Raising goats in the southern-pine silvopasture system: challenges and opportunities. The 15th North American Agroforestry Conference, June 27-29, Virginia Tech, Squires Student Center, Blacksburg, VA. (*Abstract and oral presentation*)
- Karki, Y., U. Karki, and R. Khatri. 2015. Debarking behavior of Kiko goats on fairly-grown southern-pine trees. The 73rd Professional Agricultural Workers Conference, December 6-8, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Karki, Y., U. Karki, R. Khatri, S. Poudel, N. Gurung, A. Kumi, and B. R. Min. 2017. Pine debarking behavior of Kiko wethers in silvopasture and woodland grazing systems. The 19th Biennial Research Symposium, Association of Research Directors, April 1-4, Hyatt Regency Atlanta, GA. (*Abstract and poster presentation*)
- Khatri, R., U. Karki, J. Bettis, and Y. Karki. 2015. Woodland plant-species composition before and after grazing with goats. The 73rd Professional Agricultural Workers Conference, December 6-8, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and oral presentation*)

- Khatri, R., U. Karki, J. Byrd, A. Kumi, L. Karki, and B. Min. 2015. Performance of selected browse species in the greenhouse. Agronomy Society of America Southern Section Meeting, January 31-February 3, Atlanta, GA. (*Abstract and poster presentation*)
- Khatri, R., U. Karki, J. Byrd, A. Kumi, L. Karki, and B. Min. 2014. Initial growth and performance of selected browse species. The Professional Agricultural Workers Conference, December 7-9, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Khatri, R., U. Karki, Y. Karki, N. Gurung, and B. Min. 2016. Composition and quality assessment of the woodland browse species and goats' performance study under woodland. ASAS Southern Section Meeting, February 6-9, San Antonio, TX. (*Abstract and oral presentation*)
- Lamsal, S., U. Karki, S. Chaudhary, and D. P. Dhakal. 2023. Performance and resiliency against gastrointestinal parasites of pregnant does and ewes raised indoor and outdoor during the winter season. ASAS Annual Meeting, July 16-20, 2023, Albuquerque Convention Center, Albuquerque, NM. (*Abstract & poster presentation*)
- Lamsal, S., U. Karki, S. Chaudhary, B. Shrestha, and D. P. Dhakal. 2022. Different methods of stress measurement in livestock: a review. The 80th Professional Agricultural Workers Conference, November 13-15, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, Alabama. (*Abstract and poster presentation; won the 1st position, graduate student competition*)
- Lamsal, S., U. Karki, S. Chaudhary, D. P. Dhakal, and B. Paneru. 2024. Impact of rearing system on various stress indexes in pregnant does and ewes during winter. Nepalese Agricultural Professionals of Americas (NAPA), the 4th Biennial International Scientific Conference. May 24-26, Baltimore, MD. (*Abstract accepted for oral presentation*)
- Lamsal, S., U. Karki, S. Chaudhary, D. P. Dhakal, and B. Paneru. 2024. Rearing system influenced the blood parameters of pregnant does during various stages of pregnancy. ARD Research Symposium, April 6-9, Gaylord Opryland Hotel, Nashville, TN. (*Abstract and oral presentation*)
- Lamsal, S., U. Karki, S. Chaudhary, D. P. Dhakal, and B. Paneru. 2024. Rearing system influenced the performance, GI-parasite burden, and immune profile of pregnant does during winter. ASAS (Southern Section) Meeting, January 27-30, 2024, at the Omni Louisville Hotel Louisville, Kentucky. (*Abstract and oral presentation*)
- Lamsal, S., U. Karki, S. Chaudhary, D. P. Dhakal, and B. Paneru. 2023. Evaluation of hematological, biochemical, and immune profile in pregnant ewes raised outdoor vs. indoor during winter. The 81st Professional Agricultural Workers Conference, October 29-31, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation*)
- Lawler, R., N. Gurung, U. Karki, M. Goodman, and O. Bolden-Tiller. 2008. Integration of meat goat production into pine silvopasture systems. The 62nd Southern Pasture & Forage Crop Improvement Conference, Knoxville, TN. (*Abstract, oral presentation, and proceedings paper*)
- Norwood, K., U. Karki, J. Johnson, and A. Tiwari. 2020. Health and performance of small ruminants being raised by Alabama farmers during the fall season. The 78th Professional Agricultural Workers Conference, December 6-8, Tuskegee University, Virtual. (*Abstract and oral presentation*)

- Paneru, B., S. Bhattarai, N. Ellis, and U. Karki. 2020. Sprouting and canopy development pattern of browse species suitable for grazing small ruminants. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and poster presentation*)
- Paneru, B., U. Karki, N. Ellis, and S. Bhattarai. 2020. Vegetation preference and browsing height of Kiko wethers and Katahdin rams co-stocked in woodlands. Nepalese Agricultural Professionals of Americas Biennial Conference, September 25-28, Virtual. (*Abstract and oral presentation*)
- Paneru, B., U. Karki, N. Ellis, S. Bhattarai, and L. Karki. 2020. Behavior and landscape-use pattern of small ruminants co-grazed in woodlands with different vegetation characteristics. ASAS Southern Section Meeting, January 25-28, Chattanooga, TN. (*Abstract and oral presentation*)
- Paneru, B., U. Karki, N. Ellis, S. Bhattarai. 2020. Performance of Kiko wethers and Katahdin rams co-stocked in woodlands with diverse vegetation. ASAS-CSAS-WSASAS Annual Meeting and Trade Show, July 19-23, Virtual. (*Abstract and poster presentation*) *Journal of Animal Science*, Volume 98, Issue Supplement_4, Page 261, <https://doi.org/10.1093/jas/skaa278.472>.
- Paneru, B., U. Karki, S. Bhattarai, and N. Ellis. 2018. Growth period of different browse species suitable for grazing small ruminants. The 76th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and poster presentation*)
- Poudel, S., U. Karki, S. Bhattarai, and Y. Karki. 2019. Performance of Katahdin rams in southern-pine silvopasture and woodland grazing systems. The 16th North American Agroforestry Conference, June 24-27, Oregon State University, Corvallis, OR. (*Abstract*)
- Poudel, S., U. Karki, W. McElhenney, Y. Karki, A. Tillman, L. Karki, and A. Kumi. 2017. Challenges of stocking sheep in grazing plots with dormant browse species. The 8th Joint Annual Research Symposium, March 17, Tompkins Hall, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Poudel, S., U. Karki, W. McElhenney, Y. Karki, and A. Tillman. 2018. Grazing behavior and distribution pattern of Katahdin rams in southern-pine silvopastures with cool-season forages. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and poster presentation*)
- Poudel, S., U. Karki, W. McElhenney, Y. Karki, and A. Tillman. 2017. Grazing behavior and distribution pattern of Katahdin rams in southern-pine silvopastures with cool-season forages. The 75th Professional Agricultural Workers Conference, December 3-5, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation*)
- Poudel, S., U. Karki, Y. Karki, A. Tillman, and L. Karki. 2018. Confinement influenced the diurnal behavior and distribution pattern of Katahdin rams and Kiko wethers in southern-pine silvopastures. ASAS-CSAS Annual Meeting and Trade Show, July 8-12, Vancouver, Canada. (*Abstract and poster presentation*)
- Poudel, S., U. Karki, Y. Karki, and A. Tillman. 2018. Diurnal behavior of Kiko wethers grazing southern-pine silvopasture with warm-season forages. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and oral presentation*)

- Poudel, S., U. Karki, Y. Karki, R. Khatri, and A. Tillman. 2016. Raising Kiko wethers in a year-round grazing system. The 74th Professional Agricultural Workers Conference, December 4-6, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Prince-Davis, A., U. Karki, R. Reese, C. Wrights, and N. Gurung. 2012. Show perception of youth and their parents participating in the Tuskegee University goat show. The Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract, poster presentation, and proceedings paper*)
- Reese, R., U. Karki, J. Moore, and A. Elliott. 2013. Year-round pasture production and grazing management: education and farm improvement. The Professional Agricultural Workers Conference, December 8-10, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract, poster presentation, and proceedings paper*)
- Reese, R., U. Karki, N. Gurung, J. Moore, and A. Elliott. 2012. Impact of year-round pasture production and grazing management program. The Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract, poster presentation, proceedings paper*)
- Shrestha, B., S. Chaudhary, U. Karki, A. Tiwari, S. Lamsal, and L. Karki. 2022. Impact of supplement type on the performance and concentration of fecal nutrients of lactating does and their kids raised in woodlands. 13th International Goat Conference, September 20-22. Virtual. (*Abstract and poster presentation*)
- Shrestha, B., U. Karki, A. Tiwari, and S. Chaudhary. 2022. Effect of supplement type on the nutrient status of lactating Kiko does stocked in woodlands. Nepalese Agricultural Professionals of Americas (NAPA), the third Biennial International Scientific Conference. May 27-29, Sonesta Hotel, Atlanta, GA. (*Abstract and poster presentation*)
- Shrestha, B., U. Karki, A. Tiwari, and S. Chaudhary. 2022. Performance of lactating does and their kids in woodlands with supplemental feedstuffs or grazing. ARD Research Symposium, April 2-5, Atlanta Marriott Marquis, Atlanta, GA. (*Abstract and poster presentation*)
- Shrestha, B., U. Karki, A. Tiwari, S. Chaudhary, and L. Karki. 2022. Performance and resiliency of lactating does and their kids in woodlands with supplemental feedstuffs or grazing. ASAS-CSAS Annual Meeting, June 26-30, at the Oklahoma City Convention Center, Oklahoma City, OK. (*Abstract & poster presentation; Graduate student competition*)
- Shrestha, B., U. Karki, A. Tiwari, S. Chaudhary, and S. Lamsal. 2022. Sex effect on the growth of Kiko kids and Katahdin-St. Croix-cross lambs raised on pastures. 13th International Goat Conference, September 20-22. Virtual. (*Abstract and poster presentation*)
- Tillman, A., U. Karki, R. Khatri, Y. Karki, A. Kumi, and L. Karki. 2015. Performance of selected browse species planted in the field condition. The 73rd Professional Agricultural Workers Conference, December 6-8, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation*)
- Tiwari, A., U. Karki, B. Paneru, N. Ellis, and L. Karki. 2020. Legume-grass pastures enhanced the growth of yearling Kiko does. The 78th Professional Agricultural Workers Conference, December 6-8, Tuskegee University, Virtual. (*Abstract and oral presentation*)
- Tiwari, A., U. Karki, B. Shrestha, and S. Chaudhary. 2021. Gender effect on the growth of Katahdin-St. Croix-cross lambs raised in pastures. The 79th Professional Agricultural

Workers Conference, December 5-7, Tuskegee University, Virtual. (*Abstract and poster presentation*)

Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. 2021. Blood profile of Kiko does raised on grass-legume-mixed pastures vs. sole-grass pastures during fall. ASAS-CSAS-SSASAS Annual Meeting, July 14-18, Kentucky International Convention Center in Louisville, KY & Virtual. (*Abstract and oral presentation*)

Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. 2021. Legume-grass pastures enhanced the performance of Kiko does. ASAS-CSAS-SSASAS Annual Meeting, July 14-18, Kentucky International Convention Center, Louisville, KY & Virtual. (*Abstract and oral presentation*)

Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. 2022. Addition of legume into grass pastures improved the health indicators in Katahdin-St. Croix ewes. Nepalese Agricultural Professionals of Americas (NAPA), the third Biennial International Scientific Conference. May 27-29, Sonesta Hotel, Atlanta, GA. (*Abstract and oral presentation*)

White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2024. Effect of Livamol with BioWorma on hematological parameters in Kiko does during late pregnancy and early lactation. The 82nd Professional Agricultural Workers Conference, Nov. 17-19, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL. (*Abstract and oral presentation; won first place in graduate student oral competition*).

Award-Winning Conference Presentations: Graduate-Student Competitions (Advisees)

15 Awards

White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2025. Evaluating the effect of Livamol with BioWorma in controlling gastrointestinal nematodes and improving performance in does during late pregnancy and early lactation. Exert graduate student competition, Farmers conference, March 17-19 (*Abstract and oral presentation; 1st winner*).

Acharya, A., and U. Karki. 2025. The role of supplement feeding in minimizing greenhouse gas emissions from ruminants - a meta-analysis. Exert graduate student competition, Farmers conference, March 17-19 (*Abstract and oral presentation; 3rd winner*).

Bhattra, S., U. Karki, and S. Poudel. 2017. Diurnal behavior and distribution pattern of Kiko wethers and Katahdin rams in woodlands. The 75th Professional Agricultural Workers Conference, December 3-5, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and poster presentation; won first place in graduate student poster competition*)

Bhattra, S., U. Karki, S. Poudel, B. Paneru, and W. McElhenney. 2018. Cutting non-target vegetation improved solar radiation influx and biomass production in woodlands. The 76th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation; won second place in graduate student oral competition*)

Ellis, N., U. Karki, and B. Paneru. 2019. Utilization pattern of woodland vegetation by hair sheep. The 77th Professional Agricultural Workers Conference, December 8-10, Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and oral presentation; won third place in graduate student oral competition*)

- Ellis, N., U. Karki, S. Bhattarai, and B. Paneru. 2018. Effectiveness of different methods for minimizing *Haemonchus contortus* infestation in small ruminants – a meta-analysis. The 76th Professional Agricultural Workers Conference, December 2-4, Kellogg Hotel & Conference Center, Tuskegee University and Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and poster presentation; won first place in graduate student poster competition*)
- Norwood, K., U. Karki, J. Johnson, and A. Tiwari. 2021. Health and performance of small ruminants raised by Alabama farmers in fall and winter seasons. The 4th National Goat Conference, September 20-21, Virtual. (*Abstract and poster presentation; won third place in graduate student poster competition*)
- Paneru, B., U. Karki, N. Ellis, and S. Bhattarai. 2019. Management strategies for efficient utilization of woodland resources integrating small ruminants. The 77th Professional Agricultural Workers Conference, December 8-10, Auburn Marriott Opelika Hotel & Conference Center at Grand National. (*Abstract and poster presentation; won first place in graduate student poster competition*)
- Paneru, B., U. Karki, S. Bhattarai, and N. Ellis. 2019. Growth period of different browse species suitable for grazing small ruminants. Joint Annual Research Symposium, March 22, Auditorium and Ballroom, Tompkins Hall, Tuskegee University. (*Abstract and poster presentation; won third place in graduate student poster competition*)
- Paneru, B., U. Karki, S. Bhattarai, N. Ellis, and P. K. Biswas. 2019. Availability of the browse vegetation during the fall season for grazing small ruminants. The 19th Biennial Research Symposium, Association of Research Directors, March 30–April 3, Hyatt Regency Jacksonville, FL. (*Abstract and poster presentation; won third place in graduate student poster competition*)
- Poudel, S., U. Karki, Y. Karki, and A. Tillman. 2018. Diurnal behavior of Kiko wethers grazing southern-pine silvopasture with warm-season forages. Nepalese Agricultural Professionals of Americas Biennial Conference, May 26-27, Oklahoma City, OK. (*Abstract and poster presentation; won first place in graduate student poster competition*)
- Shrestha, B., U. Karki, A. Tiwari, and S. Chaudhary. 2021. Prevalence of gastrointestinal parasites in lactating Kiko does and their kids in woodlands with supplements. The 79th Professional Agricultural Workers Conference, December 5-7, Tuskegee University, Virtual. (*Abstract and poster presentation; won first place in graduate student poster competition*)
- Tillman, A., U. Karki, R. Khatri, Y. Karki, A. Kumi, and L. Karki. 2016. Preference of Kiko goats for selected browse species. The 74th Professional Agricultural Workers Conference, December 4-6, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL. (*Abstract and poster presentation; won first place in Gamma Sigma Delta graduate student poster competition*)
- Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. 2021. Legume addition to grass pastures minimized the nutrient loss of Kiko goats into their feces. The 4th National Goat Conference, September 20-21, Virtual. (*Abstract and poster presentation; won second place in graduate student poster competition*)
- White, E., U. Karki, S. Lamsal, D. Dhakal, and A. Acharya. 2024. Effect of Livamol with BioWorma on hematological parameters in Kiko does during late pregnancy and early lactation. The 82nd Professional Agricultural Workers Conference, Nov. 17-19,

Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, AL.
(*Abstract and oral presentation; won first place in graduate student oral competition*).

Extension/Outreach Leadership and Service

- Bambo, S. and U. Karki. 2016. Sustainable Livestock Production Training, April 5, Federation of Southern Cooperatives, Rural Training and Research Center, Epes, AL.
- Karki, U. 2009-Present. Coordinator and resource person. Master Goat Producer's Certification Training Program, Tuskegee University, Tuskegee, AL.
- Karki, U. 2010. Lead coordinator and resource person, Integrated Management of Internal Parasites in Goats Training, March 20, Federation of Southern Cooperatives, Epes, AL.
- Karki, U. 2010. Lead coordinator and resource person, Silvopasture Workshop, May 22, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
- Karki, U. 2010. Lead coordinator and resource person, Year-round Pasture Production and Management Training, July 24, 434 County Road 59, Union Springs, AL.
- Karki, U. 2011. Lead coordinator and resource person, Integrated Management of Internal Parasites in Goats Field Day, April 26, Camden, AL.
- Karki, U. 2011. Lead coordinator and resource person, Pasture-Weed Identification and Management Training for field Extension Staff and Livestock Producers, March 25, Union Springs, AL.
- Karki, U. 2011. Lead coordinator and resource person, Silvopasture Workshop, June 15, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
- Karki, U. 2011. Lead coordinator and resource person, Year-round Pasture Production and Management Workshop, July 29, Union Springs, AL.
- Karki, U. 2012. Lead coordinator and resource person, Agroforestry/Silvopasture Workshop, May 17, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
- Karki, U. 2012. Lead coordinator and resource person, Year-Round Pasture Production and Management Field Day, March 24, Central Alabama Farmers Cooperatives, Selma, AL.
- Karki, U. 2012. Lead coordinator and resource person, Year-Round Pasture Production and Management Field Day, April 7, 508 14th Street, Russell County Extension Office, Phenix City, AL.
- Karki, U. 2013. Lead coordinator and resource person, Sustainable Livestock Production System with Beef Cattle Focus Field Day, June 27, Union Springs, AL.
- Karki, U. 2013. Lead coordinator and resource person, Training for Sustainable Year-Round Forage Production and Grazing/Browsing Management in the Southern Region, March 26-28, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
- Karki, U. 2013. Lead coordinator and resource person, Training on Preparing and Showing Meat Goats for Alabama Youths and their Coordinators. Caprine Research and Education Unit, Tuskegee University, Tuskegee, and different counties in Alabama (Need-based training conducted throughout the year).
- Karki, U. 2013. Lead coordinator and resource person, Year-Round Forage Production and Sustainable Grazing Management Field Day, June 8, Selma, AL.

- Karki, U. 2013. Session coordinator and resource person, Workshop on Small Herd Health Management Issues, the 121st Annual Farmers Conference, February 21-22, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
- Karki, U. 2014. Lead coordinator and resource person. Health and Parasite Management in Small Ruminants Training, May 31, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
- Karki, U. 2014. Lead coordinator and resource person. Pasture Walk, March 29, Union Springs, AL.
- Karki, U. 2014. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, March 1, Plantersville, AL.
- Karki, U. 2014. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 25-26, Caprine Research and Education Unit Tuskegee University, Tuskegee, AL.
- Karki, U. 2014. Lead coordinator and resource person. Year-round Pasture, Sustainable Grazing, and Goat Herd Management Field Day, April 5, 36 County Road 40, Eufaula, AL.
- Karki, U. 2014. Lead coordinator, resource person, and PI. Trainers' Training in Agroforestry Practices in the Southeastern Region, October 28-29, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
- Karki, U. 2014. PI. Training women trainers in agroforestry practices in the Southeastern Region, event conducted in collaboration with NC A&T State University, November 20-21, Raleigh, NC.
- Karki, U. 2015. Coordinator. eXtension Goat Industry: Presentation and Q & A Session with Goat Experts Meeting, the 123rd Annual Farmers Conference, February 19, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
- Karki, U. 2015. Lead coordinator and resource person. Pasture, Grazing, and Goat Field Day. May 2, Selma, AL.
- Karki, U. 2015. Lead coordinator and resource person. Pasture, Grazing, and Goat Field Day. April 11, Eufaula, AL.
- Karki, U. 2015. Lead coordinator and resource person. Pasture-Based Beef Cattle Operation and Pasture Walk Workshop. March 21, Union Springs, AL.
- Karki, U. 2015. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 17, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
- Karki, U. 2015. Lead coordinator and resource person. Sustainable Livestock Production Workshop, Event conducted in collaboration with the Alabama State Association of Cooperatives, March 12, the Federation of Southern Cooperatives/Land Assistance Fund, Rural Training and Research Center, 575 Federation Road, Epes, AL.
- Karki, U. 2016. Lead coordinator and resource person. Integrated Approach for Managing Disease and Parasites in Small Ruminants Training, October 28. Tuskegee University, Tuskegee, AL.
- Karki, U. 2016. Lead coordinator and resource person. Making Small-Scale Livestock Operations Sustainable through Improvement and Diversification Workshop, the 125th Annual Farmers Conference, February 16, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.

- Karki, U. 2016. Lead coordinator and resource person. Pasture Improvement and Grazing Management Workshop, the 124th Annual Farmers Conference, February 16, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
- Karki, U. 2016. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, September 10, Plantersville, AL.
- Karki, U. 2016. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 31, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
- Karki, U. 2016. Lead coordinator and resource person. Training on Sustainable Agroforestry Practices, September 30, Tuskegee University, Tuskegee, AL.
- Karki, U. 2016. Lead coordinator and resource person. Year-round Forage Production, Sustainable Grazing Management, and Care of Goat Herd Field Day, April 9, Eufaula, AL.
- Karki, U. 2016. Lead coordinator and resource person. Year-round Forage Production, Sustainable Grazing Management, and Care of Goat Herd Field Day, April 30, Selma, AL.
- Karki, U. 2017. Lead coordinator and resource person. Integrated Approach for Managing Disease and Parasites in Small Ruminants Training, July 26. Tuskegee University, Tuskegee, AL.
- Karki, U. 2017. Lead coordinator and resource person. Pasture Walk, April 22, Union Springs, AL.
- Karki, U. 2017. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, June 9, Plantersville, AL.
- Karki, U. 2017. Lead coordinator and resource person. Sustainable Pasture-Based Livestock Production and Beekeeping Field Day, April 29, Selma, AL.
- Karki, U. 2017. Lead coordinator and resource person. Training on Sustainable Year-Round Forage Production and Grazing/Browsing Management for Saving Production Costs, March 31, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
- Karki, U. 2017. Lead coordinator and resource person. Training on Sustainable Agroforestry Practices, September 22, Tuskegee University, Tuskegee, AL.
- Karki, U. 2018. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, May 19, Plantersville, AL.
- Karki, U. 2018. Lead coordinator and resource person. Training on Integrated Approach for Preventing Diseases and Parasites in Small Ruminants, September 28, Tuskegee University, Tuskegee, AL.
- Karki, U. 2018. Lead coordinator and resource person. Training on Healthy Soil for Healthy Pastures, March 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
- Karki, U. 2018. Lead coordinator and resource person. Use of agroforestry to benefit farmers and landowners in the Southeast Workshop, Agroforestry & SPARK Session, the 126th Annual Farmers Conference, February 15, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.

- Karki, U. 2019. Basic Health Care of Goats under Different Grazing Systems, Lowndes County Small Farm Field Day, June 20, Hayneville, AL.
- Karki, U. 2019. Lead coordinator and resource person. Agroforestry and Woodland Grazing: Potential Benefits and Applications Workshop, the 127th Annual Farmers Conference, February 21, Double-Tree Hotel, 120 Madison Avenue, Montgomery, AL.
- Karki, U. 2019. Lead coordinator and resource person. Integrated Approach for Preventing Diseases and Parasites in Small Ruminants Training, September 20, Tuskegee University, Tuskegee, AL.
- Karki, U. 2019. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Legumes for Improving Pasture Productivity, Quality, and Animal Performance, March 29, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
- Karki, U. 2020. Lead coordinator and resource person. Leguminous Forages & Browse for Animal Health & Performance Session. The 128th Annual Farmers Conference, February 20, Double-Tree Hotel, 120 Madison Avenue, Montgomery, AL.
- Karki, U. 2021. Lead coordinator and resource person. Agroforestry in the Southeast for Sustainable Land-Use and Resilient Production System, monthly virtual training series in collaboration with 1890 Agroforestry Consortium Partners, May 27-July 15.
- Karki, U. 2021. Lead coordinator and resource person. Sustainable Year-Round Forage Production & Grazing/Browsing Management, fortnightly virtual training series, May 6-July 8.
- Karki, U. 2021. Lead coordinator and resource person. Understanding and Enhancing Soil Health in Pastures/Grazing Lands, weekly virtual training series, March 4-25.
- Karki, U. 2022. Lead coordinator and resource person, Trainers' Training on the Integrated Approach for Preventing Diseases and Parasites in Small Ruminants in the Southeast USA, conducted in collaboration with experts from Fort Valley University, USDA/ARS, Langston University, and Washington State University, November 9-11, Caprine Research and Education Unit, George Washington Carver Agricultural Experiment Station, Tuskegee University, Tuskegee, AL.
- Karki, U. 2023. Lead coordinator and resource person, Integrated Approach for Preventing Diseases and Parasites in Small Ruminants June 23, Caprine Research and Education Unit, George Washington Carver Agricultural Experiment Station, Tuskegee University, Tuskegee, AL.
- Karki, U. 2024. Lead coordinator and resource person, Information Session on Climate-Smart Practices for Alabama Farmers and Educators, four virtual sessions conducted in collaboration with Drs. Srinivasa R. Mentreddy and Colmore Christian from Alabama A & M University, February 1, 8, 15, and 29.

Program Developer, Lead, and Resource Person (2009-Present)

- Sustainable Year-Round Forage Production and Grazing/Browsing Management
- Sustainable Agroforestry Practices
- Integrated Approach for Preventing Diseases and Parasites in Small Ruminants

Training and educational events conducted for Extension educators, farmers, and landowners:

63 events conducted

1. Karki, U. along with graduate students and staff. 2025. Conducted a one-day orientation training for producers enrolled in the Climate-Smart project, 7:30 AM to 4:30 PM, March 22, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL 36088.
2. Strategy Workshop for Marketing Meat Goats & Goat Products in the southeast USA. 8:00 AM to 4:00 PM, August 29, Caprine Research & Education Unit, Tuskegee University, Tuskegee, AL 36088.
3. Karki, U. along with graduate students and staff. 2025. Conducted a one-day Strategy Workshop for Marketing Meat Goats & Goat Products in the southeast USA. 8:00 AM to 4:00 PM, August 29, Caprine Research & Education Unit, Tuskegee University, Tuskegee, AL 36088.
4. Karki, U. along with project collaborators from Alabama A&M University. 2024. Conducted a series of virtual Information Sessions (4) on Climate-Smart Practices for Alabama Farmers and Educators - February 1, 8, 15, 29, 2024.
5. Karki, U. in collaboration with Partners from the Federation of Southern Cooperatives conducted a one-day training on an integrative approach to small ruminant management for producers. March 3, 2023, Epes, Alabama.
6. Karki, U., B. Shrestha, and S. Chaudhary. 2022. Conducted a session on woodland grazing: importance, research highlights, and supplementation for desirable performance and health conditions of small ruminants. The 80th Professional Agricultural Workers Conference, Nov. 13-15, Renaissance Montgomery Hotel & Spa at the Convention Center, Montgomery, Alabama.
7. Karki, U. 2022. Lead and resource person. Trainers' Training on the Integrated Approach for Preventing Diseases and Parasites in Small Ruminants in the Southeast USA
8. Karki, U. 2021. Lead coordinator and resource person. Understanding and Enhancing Soil Health in Pastures/Grazing Lands, weekly virtual training series, March 4-25.
9. Karki, U. 2021. Lead coordinator and resource person. Sustainable Year-Round Forage Production & Grazing/Browsing Management, fortnightly virtual training series, May 6-July 8.
10. Karki, U. 2021. Lead coordinator and resource person. Agroforestry in the Southeast for Sustainable Land-Use and Resilient Production System, monthly virtual training series in collaboration with 1890 Agroforestry Consortium Partners, May 27 – July 15.
11. Karki, U. 2020. Lead coordinator and resource person. Leguminous Forages & Browse for Animal Health & Performance Session. The 128th Annual Farmers Conference, February 20, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL.
12. Karki, U. 2019. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Legumes for Improving Pasture

- Productivity, Quality, and Animal Performance, March 29, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
13. Karki, U. 2019. Lead coordinator and resource person. Integrated Approach for Preventing Diseases and Parasites in Small Ruminants Training, September 20, Tuskegee University, Tuskegee, AL.
 14. Karki, U. 2019. Lead coordinator and resource person. Agroforestry and Woodland Grazing: Potential Benefits and Applications Workshop, the 127th Annual Farmers Conference, February 21, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL.
 15. Karki, U. 2019. Basic Health Care of Goats under Different Grazing Systems, Lowndes County Small Farm Field Day, June 20, Hayneville, AL.
 16. Karki, U. 2018. Lead coordinator and resource person. Use of agroforestry to benefit farmers and landowners in the Southeast Workshop, Agroforestry & SPARK Session, the 126th Annual Farmers Conference, February 15, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
 17. Karki, U. 2018. Lead coordinator and resource person. Training on Integrated Approach for Managing Disease and Parasites in Small Ruminants, September 28, Tuskegee University, Tuskegee, AL.
 18. Karki, U. 2018. Lead coordinator and resource person. Training on Healthy Soil for Healthy Pastures, March 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
 19. Karki, U. 2018. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, May 19, Plantersville, AL.
 20. Karki, U. 2017. Lead coordinator and resource person. Training on Sustainable Year-Round Forage Production and Grazing/Browsing Management for Saving Production Costs, March 31, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
 21. Karki, U. 2017. Lead coordinator and resource person. Training on Sustainable Agroforestry Practices, September 22, Tuskegee University, Tuskegee, AL.
 22. Karki, U. 2017. Lead coordinator and resource person. Sustainable Pasture-Based Livestock Production and Beekeeping Field Day, April 29, Selma, AL.
 23. Karki, U. 2017. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, June 9, Plantersville, AL.
 24. Karki, U. 2017. Lead coordinator and resource person. Pasture Walk, April 22, Union Springs, AL.
 25. Karki, U. 2017. Lead coordinator and resource person. Integrated Approach for Managing Disease and Parasites in Small Ruminants Training, July 26. Tuskegee University, Tuskegee, AL.

26. Karki, U. 2016. Lead coordinator and resource person. Year-round Forage Production, Sustainable Grazing Management, and Care of Goat Herd Field Day, April 9, Eufaula, AL.
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28. Karki, U. 2016. Lead coordinator and resource person. Training on Sustainable Agroforestry Practices, September 30, Tuskegee University, Tuskegee, AL.
29. Bambo, S. and U. Karki. 2016. Sustainable Livestock Production Training, April 5, Federation of Southern Cooperatives, Rural Training and Research Center, Epes, AL.
30. Karki, U. 2016. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 31, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
31. Karki, U. 2016. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, September 10, Plantersville, AL.
32. Karki, U. 2016. Lead coordinator and resource person. Pasture Improvement and Grazing Management Workshop, the 124th Annual Farmers Conference, February 16, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
33. Karki, U. 2016. Lead coordinator and resource person. Making Small-Scale Livestock Operations Sustainable through Improvement and Diversification Workshop, the 125th Annual Farmers Conference, February 16, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
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35. Karki, U. 2015. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 17, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
36. Karki, U. 2015. Lead coordinator and resource person. Sustainable Livestock Production Workshop, Event conducted in collaboration with the Alabama State Association of Cooperatives, March 12, the Federation of Southern Cooperatives/Land Assistance Fund, Rural Training and Research Center, 575 Federation Road, Epes, AL.
37. Karki, U. 2015. Lead coordinator and resource person. Pasture-Based Beef Cattle Operation and Pasture Walk Workshop. March 21, Union Springs, AL.
38. Karki, U. 2015. Lead coordinator and resource person. Pasture, Grazing, and Goat Field Day. May 2, Selma, AL.

39. Karki, U. 2015. Lead coordinator and resource person. Pasture, Grazing, and Goat Field Day. April 11, Eufaula, AL.
40. Karki, U. 2015. Coordinator. eXtension Goat Industry: Presentation and Q & A Session with Goat Experts Meeting, the 123rd Annual Farmers Conference, February 19, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
41. Karki, U. 2014. PI. Training women trainers in agroforestry practices in the Southeastern Region, event conducted in collaboration with NC A&T State University, November 20-21, Raleigh, NC.
42. Karki, U. 2014. Lead coordinator, resource person, and PI. Trainers' Training in Agroforestry Practices in the Southeastern Region, October 28-29, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
43. Karki, U. 2014. Lead coordinator and resource person. Year-round Pasture, Sustainable Grazing, and Goat Herd Management Field Day, April 5, 36 County Road 40, Eufaula, AL.
44. Karki, U. 2014. Lead coordinator and resource person. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training, March 25-26, Caprine Research and Education Unit Tuskegee University, Tuskegee, AL.
45. Karki, U. 2014. Lead coordinator and resource person. Silvopasture and Goat-Herd Management Field Day, March 1, Plantersville, AL.
46. Karki, U. 2014. Lead coordinator and resource person. Pasture Walk, March 29, Union Springs, AL.
47. Karki, U. 2014. Lead coordinator and resource person. Health and Parasite Management in Small Ruminants Training, May 31, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
48. Karki, U. 2013. Session coordinator and resource person, Workshop on Small Herd Health Management Issues, the 121st Annual Farmers Conference, February 21-22, Kellogg Hotel & Conference Center, Tuskegee University, Tuskegee, AL.
49. Karki, U. 2013. Lead coordinator and resource person, Year-Round Forage Production and Sustainable Grazing Management Field Day, June 8, Selma, AL.
50. Karki, U. 2013. Lead coordinator and resource person, Training on Preparing and Showing Meat Goats for Alabama Youths and their Coordinators. Caprine Research and Education Unit, Tuskegee University, Tuskegee, and different counties in Alabama.
51. Karki, U. 2013. Lead coordinator and resource person, Training for Sustainable Year-Round Forage Production and Grazing/Browsing Management in the Southern Region, March 26-28, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
52. Karki, U. 2013. Lead coordinator and resource person, Sustainable Livestock Production System with Beef Cattle Focus Field Day, June 27, Union Springs, AL.

53. Karki, U. 2012. Lead coordinator and resource person, Year-Round Pasture Production and Management Field Day, March 24, Central Alabama Farmers Cooperatives, Selma, AL.
54. Karki, U. 2012. Lead coordinator and resource person, Year-Round Pasture Production and Management Field Day, April 7, 508 14th Street, Russell County Extension Office, Phenix City, AL.
55. Karki, U. 2012. Lead coordinator and resource person, Agroforestry/Silvopasture Workshop, May 17, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
56. Karki, U. 2011. Lead coordinator and resource person, Year-round Pasture Production and Management Workshop, July 29, Union Springs, AL.
57. Karki, U. 2011. Lead coordinator and resource person, Silvopasture Workshop, June 15, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
58. Karki, U. 2011. Lead coordinator and resource person, Pasture-Weed Identification and Management Training for field Extension Staff and Livestock Producers, March 25, Union Springs, AL.
59. Karki, U. 2011. Lead coordinator and resource person, Integrated Management of Internal Parasites in Goats Field Day, April 26, Camden, AL.
60. Karki, U. 2010. Lead coordinator and resource person, Year-round Pasture Production and Management Training, July 24, 434 County Road 59, Union Springs, AL.
61. Karki, U. 2010. Lead coordinator and resource person, Silvopasture Workshop, May 22, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL.
62. Karki, U. 2010. Lead coordinator and resource person, Integrated Management of Internal Parasites in Goats Training, March 20, Federation of Southern Cooperatives, Epes, AL.
63. Karki, U. 2009-Present. Coordinator and resource person. Master Goat Producer's Certification Training Program, Tuskegee University, Tuskegee, AL.

Technical service and expertise provided

Provided expertise and served as a resource person for other educational events led by other faculty, county agents, or other organizations. Few such annual events are listed below:

1. Master goat producer's certification training program, 3-day training program since 2008 – annual event. I have been serving as a trainer and reaching out to farmers and professionals for promoting the program.
2. Annual Goat Day, I have been serving as a speaker and reaching out to farmers and professionals for promoting the program as well as providing help to the team as needed.
3. Youth goat show, 1-day annual event, backed by training to interested youths and their guardians. Developed the goat show guidelines and used for training youths.

Educational and Technical Presentations with Handouts

One hundred and seventy-five (175) presentations delivered at various meetings, training sessions, field days, and other educational events, and handouts provided.

2026

1. Karki, U., S. Acharya, A. Acharya, M. Dumre. 2026. A Special session on Critical healthcare of small ruminants Developed and conducted at the 134th Farmers Conference, February 19, Carver Integrative Sustainability Center, Tuskegee University, Tuskegee, AL. The major highlight of the session included assessing the sign and symptoms of gastrointestinal parasite problem in small ruminants, hoof care, scoring body condition, poster and oral presentations, demonstration, and hands-on activities.
2. Karki, U., S. Sharma. 2026. A Special session Agroforestry in the Southeast developed and conducted at the 134th Farmers Conference, February 19, Carver Integrative Sustainability Center, Tuskegee University, Tuskegee, AL. The major highlight of the session included overview agroforestry system, various agroforestry types, benefits, challenges and opportunities with poster and oral presentations, discussion, and questions-answer.
3. Karki, U. 2026. Maintaining Native Grass in Alabama Blackbelt for Livestock Grazing. Oral presentation and question-answer in the Alabama Black Belt Prairie Grass Initiative session. 134th Farmers Conference, February 19, Carver Integrative Sustainability Center, Tuskegee University, Tuskegee, AL.

2025

1. Karki, U. 2025. Goat research & extension update at Tuskegee University. April 12, Tuskegee University Annual Goat Day, Henderson Hall, Tuskegee University, Tuskegee, AL.
2. Workshop conducted at the 133rd Farmers Conference (Montgomery, Alabama, March 18-20, 2025): Climate-Smart Crop and Livestock Production Practices for Sustainability and Resilience – Session Coordinator
 1. Karki, U. 2025. Climate-Smart, resilient, and sustainable livestock production practices. March 19, 133rd Annual Farmers Conference, Embassy suites, Downtown Montgomery, AL.
 2. A brief overview of sustainable agroforestry practices supported through expanding agroforestry project (EAP) incentive payment program – Suresh Sharma
 3. Providing technical assistance to limited resource farmers involved in Climate-Smart small-ruminant farming – Timothy Sylvester
 4. Measurement of greenhouse gas emissions from various grazing systems – Arjun Acharya
3. Karki, U. 2025. Approaches to mitigate greenhouse gas emissions from livestock production systems and adaptation strategies. February 19, Webinar conducted on behalf of Climate-

Smart group of Southern Region ANR-Program Leadership Network. (served as the chair for the Climate-Smart group and coordinated the webinar).

4. Karki, U. 2025. Selected Climate-Smart small-ruminant production practices. March 22, Orientation training for producers enrolled in the Climate-Smart project, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
5. Karki, U. 2025. Measurement and Verification of the benefits of the Climate-Smart animal production practices. March 22, Orientation training for producers enrolled in the Climate-Smart project, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.

2024

1. Karki, U. 2024. Goat diseases and prevention strategies. Master Goat Producer Training Certification. August 1, Tuskegee University, Tuskegee, AL.
2. Overview of Climate-Smart practices. May 28, Climate-Smart Agriculture and Forestry Practices Workshop, University of Maryland Eastern Shore, Princess Anne, MD.
3. Karki, U. 2024. Goat research & extension update at Tuskegee University. April 20, Tuskegee University Annual Goat Day, Henderson Hall, Tuskegee University, Tuskegee, AL.
4. Karki, U. 2024. Climate-Smart agricultural practices and opportunities for farmers (panel presentation). March 14, 132nd Annual Farmers Conference, Embassy suites, Downtown Montgomery, AL.
5. Karki, U. 2024. Climate-Change impact and small ruminant farming. March 1, Alabama State Association of Cooperatives (ASAC) Inaugural Spring Workshop, Epes, AL.
6. Karki, U. 2024. Forage management & supplementation for small ruminants. August 27, Virtual presentation through Alabama Cooperative Extension System for farmers and educators (Invited speaker).
7. Karki, U. 2024. Climate-Smart agricultural practices & opportunities for farmers. February 15, Council on Food, Agriculture and Resource Economics-CFARE Webinar (Invited Speaker)

2023

8. Karki, U. 2023. Silvopasture and climate smart practices for small ruminant producers. March 30, 131st Farmers Conference: Embassy Suites by Hilton, Montgomery, AL.
9. Karki, U. 2023. Climate-Smart Agriculture and Forestry Program. March 28, 131st Farmers Conference: Embassy Suites by Hilton, Montgomery, AL.
10. Karki, U. 2023. Goat research & extension update at Tuskegee University. April 22, Tuskegee University Annual Goat Day, Henderson Hall, Tuskegee University, Tuskegee, AL.
11. Karki, U. 2023. Goat diseases and prevention strategies. Master Goat Producer Training Certification. July 31, Tuskegee University, Tuskegee, AL 36088.

2022

Research-based educational posters displayed at the 130th Farmers Conference virtually, 15-17 February:

1. Shrestha, B., U. Karki, A. Tiwari, and S. Chaudhary. Prevalence of gastrointestinal parasites in lactating Kiko does and their kids in woodlands with supplements.
2. Tiwari, A., U. Karki, K. Norwood, J. Johnson, and L. Karki. Legume addition to grass pastures minimized the nutrient loss of Kiko goats into their feces.
3. Norwood, K., U. Karki, J. Johnson, and A. Tiwari. 2021. Health and performance of small ruminants raised by Alabama farmers in fall and winter seasons.
4. Paneru, B., U. Karki, N. Ellis, S. Bhattarai. Performance of Kiko wethers and Katahdin rams co-stocked in woodlands with diverse vegetation.
5. Tiwari, A., U. Karki, B. Shrestha, and S. Chaudhary. 2021. Gender effect on the growth of Katahdin-St. Croix-cross lambs raised in pastures.

2021 (Corona outbreak and lockdown, cancelled all in-person activities continued)

1. Karki, U. 2021. Strategies for marketing goats and their products. Southern Goat Cooperatives (SOGOCO) Marketing Workshop, Oct. 25, Epes, AL.
2. Sustainable Year-Round Forage Production & Grazing/Browsing Management Video Series – 5 presentations and videos - presented, developed, and posted on YouTube, linked to Livestock communication blog:
 - a. Identification and controlling pasture weeds
 - b. Grass and legume forages for healthy animals
 - c. Forage production plan for year-round feeding
 - d. Use of browse and woodlands to expand grazing and keeping animals healthy
 - e. Grazing facilities and sustainable grazing management
3. Understanding and enhancing soil health in pastures/grazinglands video series - 4 presentations and videos - presented, developed, and posted on YouTube, linked to Livestock communication blog:
 - a. Obtaining web-soil survey report for your pastures
 - b. Soil test - taking samples, test results, & amendments
 - c. Soil organic matter - importance and enhancement
 - d. Soil conservation in grazing lands
4. Agroforestry in the Southeast for Sustainable Land-Use and Resilient Production System - Virtual Training Series- 4 presentations and videos – 3 contributed by 1890 partners - presented, developed, and posted on YouTube, linked to Livestock communication blog:
 - a. Alley cropping of specialty vegetables in pecan and pine production system
 - b. Raising small ruminants in pine silvopastures
 - c. Ecosystem services from agroforestry systems
 - d. Cultivation of mushrooms on waste wood for Improving timber stands

2020 (Corona outbreak and lockdown, cancelled all in-person activities from early March)

1. Karki, U. 2020. Pasture improvement and grazing management. Beef cattle short course, June 23 (virtual presentation).
2. Karki, U. 2020. Importance of leguminous forages and browse for grazing animals. Feb. 20, 128th Farmers Conference: Leguminous Forages & Browse for Animal Health & Performance Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)
3. Paneru, B. and U. Karki. 2020. Leguminous browse: growth period and preference of small ruminants. Feb. 20, 128th Farmers Conference: Leguminous Forages & Browse for Animal Health & Performance Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)
4. Ellis, N. and U. Karki. 2020. Leguminous forages suitable for small ruminants. Feb. 20, 128th Farmers Conference: Leguminous Forages & Browse for Animal Health & Performance Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)
5. Karki, L. and U. Karki. 2020. Economic value of including leguminous forages and browse in grazing systems. Feb. 20, 128th Farmers Conference: Leguminous Forages & Browse for Animal Health & Performance Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)

2019

1. Karki, U. 2019. Leguminous forages & browse for improving animal health and performance. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Legumes for Improving Pasture Productivity, Quality, and Animal Performance. March 29, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
2. Karki, U., S. Bhattarai, B. Paneru, N. Ellis, P. Rohling, N. Gurung. 2019. Demonstration and discussion on soil-plant-animal interaction. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Legumes for Improving Pasture Productivity, Quality, and Animal Performance. March 29, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
3. Karki, U. 2019. Keeping Small Ruminants Healthy under Different Grazing Systems. Small Farm Field Day, June 20, Ducre Farm, 302 Hulet Road, Gordonsville, AL.
4. Karki, U. 2019. Agroforestry introduction and pine silvopasture system for multiple benefits. Feb. 21, 127th Farmers Conference: Agroforestry and Woodland Grazing: Potential Benefits and Applications Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)

5. Bhattarai, S., U. Karki, and L. Karki. 2019. Efficient utilization of woodlands to produce desirable trees and small ruminants. Feb. 21, 127th Farmers Conference: Agroforestry and Woodland Grazing: Potential Benefits and Applications Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)
6. Karki, L., U. Karki, and S. Bhattarai. 2019. Economic implication of woodland grazing: Putting numbers together. Feb. 21, 127th Farmers Conference: Agroforestry and Woodland Grazing: Potential Benefits and Applications Session, Double Tree Hotel, 120 Madison Avenue, Montgomery, AL 36104. (Session Chair: U. Karki)
7. Karki, U. 2019. Importance of integrated approach and highlights of ongoing work at Tuskegee University to minimize diseases and parasites in small ruminants. Integrated Approach for Preventing Diseases and Parasites in Small Ruminants: Role of Browse, September 20, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088.
8. Karki, U. 2019. Appropriate use of suitable browse for keeping small ruminants healthy. Integrated Approach for Preventing Diseases and Parasites in Small Ruminants: Role of Browse, September 20, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088.
9. Ellis, N., B. Paneru, and U. Karki. 2019. Fecal sample examination, parasites eggs demonstration. Integrated Approach for Preventing Diseases and Parasites in Small Ruminants: Role of Browse, September 20, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088.
10. Lovelady, A., and U. Karki. 2019. Demo and hands-on activities: General health inspection, use of FAMACHA card, condition score, hoof inspection and trimming, taking temperature, medication (injections, drenching, topical), fecal sample collection Integrated Approach for Preventing Diseases and Parasites in Small Ruminants: Role of Browse, September 20, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088.

2018

1. Karki, U., S. Poudel, and S. Bhattarai. 2018. Demonstration and discussion on soil-plant-animal interaction. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Healthy Soil for Healthy Pastures. March 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
2. Karki, U. 2018. Role of different forages for building pasture soil. Sustainable Year-Round Forage Production and Grazing/Browsing Management: Healthy Soil for Healthy Pastures. March 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
3. Karki, U. 2018. Management of small goat herd. Small Area Farmers Work Conference. Feb. 24, 2018, 12021 Co Rd 29, Alberta (Boykin), AL 36723.

4. Karki, U. 2018. Use of agroforestry to benefit farmers & landowners in the Southeast. Feb. 15, 126th Farmers Conference: Agroforestry/Carinata Session, Kellogg Conference Center, Tuskegee University, Tuskegee, AL.

2017

1. Karki, U. 2017. Agroforestry and woodland grazing ongoing research activities and findings, discussion, and site tour. Training on Sustainable Agroforestry. September 22, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
2. Karki, U. 2017. Agroforestry and silvopasture. Training on Sustainable Agroforestry Practices. September 22, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
3. Karki, U. 2017. Importance of integrated approach and highlights of ongoing work at Tuskegee University to minimize diseases and parasites in small ruminants. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. July 26, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088
4. Karki, U. 2017. Use of FAMACHA and smart drenching to control barber pole worm. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. July 26, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088
5. Karki, U. 2017. Use of FAMACHA card to monitor the anemic condition in goats – demonstration and hands-on activities. July 26, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088
6. Karki, U. 2017. Identify different forages, measure the forage height and calculate the available biomass – hands-on activities. Silvopasture and Goat Herd Management Field Day, June 9, 472 Pecan Road, Plantersville, AL.
7. Karki, U. 2017. Basics of managing a healthy goat herd. Silvopasture and Goat Herd Management Field Day, June 9, 472 Pecan Road, Plantersville, AL.
8. Karki, U. 2017. Suitable forages for southern pine silvopastures. Silvopasture and Goat Herd Management Field Day, June 9, 472 Pecan Road, Plantersville, AL.
9. Karki, U. 2017. Woodland grazing. Selma Field Day, April 29, 431 County Road 540, Selma, AL.
10. Karki, U. 2017. Measure the forage height and calculate the available biomass – hands-on activities. Selma Field Day, April 29, 431 County Road 540, Selma, AL.
11. Karki, U. 2017. Legume and grass combination for year-round pastures. Selma Field Day, April 29, 431 County Road 540, Selma, AL

12. Karki, U. 2017. Tips for managing pastures sustainably. Sustainable Year-Round Forage Production and Grazing/Browsing Management for Saving Production Costs. March 31, 2017, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
13. Karki, U. 2017. Developing a sustainable year-round pasture and grazing system. Presented at “Making Small-Scale Livestock Operations Sustainable through Improvement and Diversification” session, 125th Annual Farmers Conference, Feb. 16, Kellogg Hotel and Conference Center, Tuskegee, AL.

2016

1. Karki, U. 2016. Performance and health issues of grazing goats. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. October 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088
2. Karki, U. 2016. Use of browse, woodlands, and silvopastures for expanding grazing opportunity and minimize health problems in small ruminants – site tour and discussion. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. October 28, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL 36088
3. Karki, U. 2016. Agroforestry introduction. Training on Sustainable Agroforestry Practices. September 30, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
4. Karki, U. 2016. Forage selection and establishment in a silvopasture system. Training on Sustainable Agroforestry Practices. September 30, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
5. Karki, U. 2016. Sustainable grazing management in a silvopasture system. Training on Sustainable Agroforestry Practices. September 30, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
6. Karki, U. 2016. Agroforestry and woodland grazing site tour, identification of different forages – Demonstration and discussion. Training on Sustainable Agroforestry Practices. September 30, 102 Mary Starke Harper Hall & the Agroforestry Research and Demonstration Site, Tuskegee University, Tuskegee, AL 36088.
7. Karki, U. 2016. Silvopasture introduction and opportunity it can offer for landowners and farmers. Silvopasture and Goat Herd Management Field Day, Sept. 10, 472 Pecan Road, Plantersville, AL.
8. Karki, U. 2016. Basics of managing a healthy goat herd. Silvopasture and Goat Herd Management Field Day, Sept. 10, 472 Pecan Road, Plantersville, AL.

9. Karki, U. 2016. Identify different forages, measure the forage height and calculate the available biomass – Demonstration and hands-on activities. Silvopasture and Goat Herd Management Field Day, Sept. 10, 472 Pecan Road, Plantersville, AL.
10. Karki, U. and Y. Karki. 2016. Hoof trimming, FAMACHA use, body condition scoring, taking temperature, collecting fecal samples, determining age of goats – Demonstration and hands-on activities. Silvopasture and Goat Herd Management Field Day, Sept. 10, 472 Pecan Road, Plantersville, AL.
11. Karki, U. 2016. Forage establishment, grazing management, and highlights of TU year-round forage/grazing program. Selma Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 30, 431 County Road 540, Selma, AL.
12. Karki, U. 2016. Basics of managing a healthy goat herd. Selma Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 30, 431 County Road 540, Selma, AL.
13. Karki, U. 2016. Demonstration and hands-on activities on taking care of goats (Use of FAMACHA, taking body condition score, hoof inspection and trimming, general inspection for determining the health condition, aging by counting teeth), taking soil samples and preparation for sending to lab, taking forage height and use it for determining the available forage biomass, and identification of different forages and pasture weeds. Selma Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 30, 431 County Road 540, Selma, AL.
14. Karki, U. 2016. Forage establishment, grazing management, and highlights of TU year-round forage/grazing program. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 40, Eufaula, AL.
15. Karki, U. 2016. Basics of managing a healthy goat herd. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 40, Eufaula, AL.
16. Karki, U. 2016. Demonstration and hands-on activities on taking care of goats (Use of FAMACHA, taking body condition score, hoof inspection and trimming, general inspection for determining the health condition, aging by counting teeth), taking soil samples and preparation for sending to lab, taking forage height and use it for determining the available forage biomass, and identification of different forages and pasture weeds. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 40, Eufaula, AL.
17. Karki, U. 2016. Sustainable year-round pasture & grazing. Training on Sustainable Livestock Production. April 5, 575 Federation Road, Rural Training and Research Center, Epes, AL.
18. Karki, U. 2016. Basics of managing a healthy goat herd. Training on Sustainable Livestock Production. April 5, 575 Federation Road, Rural Training and Research Center, Epes, AL.
19. Karki, U. 2016. Demonstration and hands-on activities on taking care of goats (Use of FAMACHA, taking body condition score, hoof inspection and trimming, general inspection

for determining the health condition, aging by counting teeth). Training on Sustainable Livestock Production. April 5, 575 Federation Road, Rural Training and Research Center, Epes, AL.

20. Karki, U. 2016. Sustainable grazing management. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training. March 17, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
21. Karki, U. 2016. Forage selection, establishment, and highlights of TU year-round forage/grazing program. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training. March 31, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
22. Karki, U. 2016. Site tour and hands-on activities: open pastures (CREU), browse site, silvopasture, and woodland grazing site tour, measuring forage height and estimating productivity, forage species identification and discussion, browse species identification and discussion. CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
23. Karki, U. 2016. Potential of improving existing pastures and its benefits. Pasture Improvement and Grazing Management Training Session. 124th Annual Farmers Conference, Meeting Room F & G, Kellogg's Conference Center, Tuskegee University, Tuskegee, AL 36088

2015

1. Karki, U. 2015. Agroforestry introduction. Training on Sustainable Agroforestry Practices in the Southeastern Region. September 11, 102 Mary Starke Harper Hall, Tuskegee University, Tuskegee, AL 36088.
2. Karki, U. 2015. Forage selection and establishment in a silvopasture system. Training on Sustainable Agroforestry Practices in the Southeastern Region. September 11, 102 Mary Starke Harper Hall, Tuskegee University, Tuskegee, AL 36088.
3. Karki, U. 2015. Sustainable grazing management in a silvopasture system. Training on Sustainable Agroforestry Practices in the Southeastern Region. September 11, 102 Mary Starke Harper Hall, Tuskegee University, Tuskegee, AL 36088.
4. Karki, U. 2015. Agroforestry site tour and Hands-on activities: silvopasture grazing tour & discussion, woodland grazing tour and discussion. Training on Sustainable Agroforestry Practices in the Southeastern Region. September 11, 102 Mary Starke Harper Hall, Tuskegee University, Tuskegee, AL 36088.
5. Karki, U. 2015. Tuskegee University's Sustainable Year-Round Pasture/Browse Improvement Program. Goat Field Day, coordinated by the Federation of Southern Cooperatives/Land Assistance Fund, Epes, AL. August 7, Milo Fairley Estate, Camden, AL.
6. Karki, U. 2015. Hands-on activities: Goat Husbandry Practices (Hoof trimming, FAMACHA, body condition scoring, soil sampling on grazing pastures). Goat Field Day,

coordinated by the Federation of Southern Cooperatives/Land Assistance Fund, Epes, AL. August 7, Milo Fairley Estate, Camden, AL.

7. Karki, U. 2015. Goat diseases. Master Goat Producer Training Certification. Aug. 3-5, Tuskegee University, Tuskegee, AL 36088.
8. Karki, U. 2015. Forage selection and establishment in a silvopasture system. Trainers' Training in Agroforestry Practices in the Southeastern Region. July 20, Florida A&M Research and Extension Center, 4259 Brainbridge Highway, Quincy, FL 32352.
9. Karki, U. 2015. Sustainable grazing management in a silvopasture system. Trainers' Training in Agroforestry Practices in the Southeastern Region. July 20, Florida A&M Research and Extension Center, 4259 Brainbridge Highway, Quincy, FL 32352.
10. Karki, U. 2015. FAMACHA, smart drenching, and integrated approach to control barber pole worm. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. July 9, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL 36088.
11. Karki, U. 2015. Hands-on activities and demonstration: use of FAMACHA card, site tour of woodland grazing and silvopasture sites. Integrated Approach for Managing Diseases and Parasites in Small Ruminants. July 9, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL 36088.
12. Karki, U. 2015. Suitable forages, their establishment, and sustainable grazing management. Selma Field Day. May 2, 430 County Road 540, Selma, AL.
13. Karki, U. 2015. Field visit and hands-on: collect and composite soil samples, identify different forages, measure the forage height and calculate the available biomass, working on goats – hoof trimming, FAMACHA, body condition score, general health inspection Selma Field Day. May 2, 430 County Road 540, Selma, AL.
14. Karki, U. 2015. Forage establishment and grazing management. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 540, Eufaula, AL 36027.
15. Karki, U. 2015. Basics of managing a healthy goat herd. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 540, Eufaula, AL 36027.
16. Karki, U. 2015. Field visit and hands-on activities: collect and composite soil samples, identify different forages, measure the forage height and calculate the available biomass, tour the pasture, observe fencing, and facilities (shelter, watering, and feeding), hoof trimming, FAMACHA use, body condition scoring. Eufaula Field Day: Year-Round Pasture, Sustainable Grazing, and Goat Herd Management. April 11, 36 County Road 540, Eufaula, AL 36027.
17. Karki, U. 2015. Winter forages for minimizing production costs. Pasture-based Beef Cattle Operation and Pasture Walk Workshop. March 21, Union Hill Baptist Church, 434 County Road 59, and Ms. Jernigan Beef Cattle Farm (412 Jernigan Road) Union Springs, AL 36089.
18. Karki, U. 2015. Sustainable grazing management. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training. March 17, 102 Mary Starke

Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.

19. Karki, U. 2015. Forage selection and establishment. Sustainable Year-Round Forage Production and Grazing/Browsing Management Training. March 17, 102 Mary Starke Harper Hall & CAENS Research and Demonstration Facility, Tuskegee University, Tuskegee, AL.
20. Karki, U. 2015. Pasture establishment and sustainable grazing management. Sustainable Livestock Production Workshop, Organized by the Alabama State Association of Cooperatives, March 12, the Federation of Southern Cooperatives /LAF's Rural Training and Research Center, 575 Federation Road, Epes, AL 35460.
21. Karki, U. 2015. Basic healthcare of small ruminants on pastures. Sustainable Livestock Production Workshop, Organized by the Alabama State Association of Cooperatives, March 12, the Federation of Southern Cooperatives /LAF's Rural Training and Research Center, 575 Federation Road, Epes, AL 35460.
22. Karki, U. 2015. Hands-on activities and demonstration: Soil Sampling, Assessing Forage Biomass, Working on Goats, Health inspection, hoof trimming, body condition scoring, FAMACHA. Sustainable Livestock Production Workshop, Organized by the Alabama State Association of Cooperatives, March 12, the Federation of Southern Cooperatives /LAF's Rural Training and Research Center, 575 Federation Road, Epes, AL 35460.

2014

1. Karki, U. 2014. Pasture improvement and sustainable grazing management. Presented to a group of farmers belonging to a cooperative, Nov. 24, 2014, Epes, AL.
2. Karki, U. 2014. Sustainable grazing management in silvopasture systems. Presented at the Trainers' Training on Sustainable Agroforestry Practices in the Southern Region, 3-day regional level, curricula-based training, Nov. 19-21, 2014, Raleigh, NC. Southern SARE funded project to 1890 Agroforestry Consortium.
3. Karki, U. 2014. Introduction to silvopasture system. Presented at the Trainers' Training on Sustainable Agroforestry Practices in the Southern Region, 2-day regional level, curricula-based hands-on training conducted at the facility of Tuskegee University, Caprine Research and Education Unit, Oct. 28-29, 2014, Tuskegee, AL 3088. Southern SARE funded project to 1890 Agroforestry Consortium.
4. Karki, U. 2014. Forage selection and establishment in silvopastures. Presented at the Trainers' Training on Sustainable Agroforestry Practices in the Southern Region, 2-day regional level, curricula-based hands-on training conducted at the facility of Tuskegee University, Caprine Research and Education Unit, Oct. 28-29, 2014, Tuskegee, AL 3088. Southern SARE funded project to 1890 Agroforestry Consortium.
5. Karki, U. 2014. Sustainable grazing management in silvopasture systems. Presented at the Trainers' Training on Sustainable Agroforestry Practices in the Southern Region, 2-day regional level, curricula-based hands-on training conducted at the facility of Tuskegee

University, Caprine Research and Education Unit, Oct. 28-29, 2014, Tuskegee, AL 3088. Southern SARE funded project to 1890 Agroforestry Consortium.

6. Karki, U. 2014. Pasture improvement and management for sustainable livestock production systems. Fort Valley State University, Sept. 5
7. Karki, U. 2014. Grazing management in a silvopasture system. Presented at the Agroforestry-Silvopasture Workshop, Organized by the Federation of Southern Cooperatives in Collaboration with Tuskegee University and Florida A&M University, August 15, Epes, AL.
8. Karki, U. 2014. Basic facilities and requirements for starting a small farm. Presented at the USDA-NRCS Outreach Program and Small Ruminant Workshop, July 9, 660 Paul Bryant Road, Alpine, AL 35014.
9. Karki U. 2014. Pasture and grazing management for controlling internal parasites in small ruminants. Presented at the Health and Parasite Management in Small Ruminants Workshop, May 31, Tuskegee University Caprine Research and Education Unit, Tuskegee, Alabama. Sponsored by Tuskegee University Cooperative Extension Program.
10. Karki U. 2014. FAMACHA and smart drenching to control barber pole worm. Presented at the Health and Parasite Management in Small Ruminants Workshop, May 31, Tuskegee University Caprine Research and Education Unit, Tuskegee, Alabama. Sponsored by Tuskegee University Cooperative Extension Program.
11. Karki, U. 2014. Presented and demonstrated hands-on activities on how to: perform a general health inspection on goats, use of FAMACHA card to monitor the anemic condition of goats, determine the condition score, and take body temperature. Also explained the meaning of different results of all these examinations and what to do when undesirable results are obtained.
12. Karki, U. 2014. Conducted hands-on activities on use of FAMACHA card to monitor the anemic condition in goats, determining the body condition score of goats, and inspecting and trimming goat hooves for keeping healthy feet, April 26, Annual Goat Day, Tuskegee University Caprine Research and Education Unit.
13. Karki, U. 2014. Importance of year-round forage production and grazing/browsing management. Presented at the sustainable year-round forage production and grazing/browsing management in the Southern Region, a regional training program for the field extension and technical assistance personnel, March 25-26, 2014, Tuskegee University Caprine Research and Education Unit, Tuskegee, Alabama. Sponsored by Southern SARE Professional Development Project and Tuskegee University Cooperative Extension Program.
14. Karki, U. 2014. Forage definition and classification, suitable forages for goats. Presented at the sustainable year-round forage production and grazing/browsing management in the Southern Region, a regional training program for the field extension and technical assistance personnel, March 25-26, 2014, Tuskegee University Caprine Research and Education Unit, Tuskegee, Alabama. Sponsored by Southern SARE Professional Development Project and Tuskegee University Cooperative Extension Program.

15. Karki, U. 2014. Sustainable grazing management. Presented at the sustainable year-round forage production and grazing/browsing management in the Southern Region, a regional training program for the field extension and technical assistance personnel, March 25-26, 2014, Tuskegee University Caprine Research and Education Unit, Tuskegee, Alabama. Sponsored by Southern SARE Professional Development Project and Tuskegee University Cooperative Extension Program.
16. Coordinated and conducted “Year-round Pasture, Silvopasture, Sustainable Grazing, and Goat Herd Management Field Day”, March 1, 2014, Plantersville, AL 36758. Presented on following topics and hands-on:
 - a. Karki, U. 2014. Forage establishment and grazing management.
 - b. Karki, U. 2014. Basics of managing a healthy goat herd.
 - c. Hands-on activities: collected and composited soil samples; toured the open-pasture and silvopasture sites; showed fencing and other goat facilities: shelter, watering, and feeding structures; and demonstrated and explained the routine care and management practices including hoof trimming, FAMACHA use, and body condition scoring.

2013

Presentation to a Senegal group

1. Karki, U. 2013. Forage definition and classification. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 22, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.
2. Karki, U. 2013. Important steps for establishing forages. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 22, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.
3. Karki, U. 2013. Sustainable grazing management. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 23, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.
4. Karki, U. 2013. Grazing: animal behavior, influence, and system. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 23, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.
5. Karki, U. 2013. Pasture and grazing management for parasite control. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 24, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.

6. Karki, U. 2013. Smart drenching and FAMACHA. Presented to a professional group from Senegal for a Short Technical Training Program, USAID/Education and Research in Agriculture (ERA), Senegal Project, April 24, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.

2013

1. Karki, U. 2013. Strategies for managing internal parasites in small ruminants. Presented on December 17, USDA-NRCS Outreach program and goat production workshop, East Alabama Goat and Poultry Barn, Woodland, AL 36280.
2. Karki, U. 2013. Important diseases of goats and disease prevention strategies. Presented on August 5 at 'Master Goat Producer's Certification Training Program, August 5-7. Tuskegee University Caprine Research and Education Unit. Jointly organized by George Washington Carver Agricultural Experiment Station, Department of Agricultural and Environmental Sciences, and Cooperative Extension Program of Tuskegee University.
3. Karki, U. 2013. Introduction to Sustainable Livestock Production. Presented at the sustainable livestock production training program, June 27, Union Springs, Alabama.
4. Karki, U. 2013. Pasture improvement and sustainable grazing management (along with demonstration on soil sample collection and processing, pasture weed and plant identification, forage seed identification). Presented at the sustainable livestock production training program, June 27, Union Springs, Alabama.
5. Karki, U. 2013. Pasture improvement and sustainable grazing management. Presented at the goat field day, Camden, AL, June 24. Organized by the Federation of Southern Cooperatives/ Land Assistance Fund.
6. Karki, U. 2013. Routine care and management of a goat herd – hands-on (hoof inspection and trimming, body condition scoring, monitoring the anemic condition with a FAMACHA card, taking body temperature). Presented at the goat field day, Camden, AL, June 24. Organized by the Federation of Southern Cooperatives/ Land Assistance Fund.
7. Karki, U. 2013. Basics of starting a livestock farm. Presented at Beginner Farmer Outreach Meeting, Organized by the Federation of Southern Cooperatives, June 11, Epes, Alabama
8. Karki, U. 2013. Forage establishment and grazing management. Presented at the year-round pasture production and sustainable grazing management field day, June 8, sponsored by SSARE on-farm project and conducted by Tuskegee University Cooperative Extension Program, Selma, Alabama.
9. Karki, U. 2013. Important steps of forage establishment. Presented at pasture establishment and goat production field day, conducted by Tuskegee University Cooperative Extension Program and hosted by Women and Youth in Agriculture, May 14, Camden, Alabama.
10. Karki, U. 2013. Importance of year-round forage production and grazing/browsing management. Presented at Sustainable Year-round forage production and grazing/browsing management for goats in the Southern Region Training Program, conducted by Tuskegee University Cooperative Extension Program, March 26, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.

11. Karki, U. 2013. Forage definition and classification. Presented at Sustainable Year-round forage production and grazing/browsing management for goats in the Southern Region Training Program, conducted by Tuskegee University Cooperative Extension Program, March 26, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
12. Karki, U. 2013. Grazing methods and systems. Presented at Sustainable Year-round forage production and grazing/browsing management for goats in the Southern Region Training Program, conducted by Tuskegee University Cooperative Extension Program, March 26, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
13. Karki, U. 2013. Suitable plant growth and development stages for grazing and proper grazing management. Presented at Sustainable Year-round forage production and grazing/browsing management for goats in the Southern Region Training Program, conducted by Tuskegee University Cooperative Extension Program, March 27, Caprine Research and Education Unit, Tuskegee University, Tuskegee, AL.
14. Karki, U. 2013. Pasture production and management. Presented at 121st Annual Farmers Conference, February 22, Kellogg Hotel and Conference Center, Tuskegee University, Tuskegee, Alabama.

2012

1. Karki, U. 2012. Important goat diseases and prevention strategies. Presented on August 6 at 'Master Goat Producer's Certification Training Program, August 6-8. Tuskegee University Caprine Research and Education Unit. Jointly organized by George Washington Carver Agricultural Experiment Station, College of Agricultural, Environmental, and Natural Sciences, and Cooperative Extension Program of Tuskegee University.
2. Karki, U. 2012. Important steps for establishing forages. Presented at 'Year-round pasture production and management' field day, March 24, 2012, 2519 U.S. highway 80 west, Selma, AL 36701, The Central Alabama Farmers Cooperatives. SSARE on-farm project and Tuskegee University Cooperative Extension Program.
3. Karki, U. 2012. Sustainable grazing management. Presented at 'Year-round pasture production and management' field day, March 24, 2012, 2519 U.S. highway 80 west, Selma, AL 36701, The Central Alabama Farmers Cooperatives. SSARE on-farm project and Tuskegee University Cooperative Extension Program.
4. Karki, U. 2012. Important steps for establishing forages. Presented at 'Year-round pasture production and management' field day, April 7, 2012, 508 14th Street, Phenix City, AL 36867, Russell County Extension Office. SSARE on-farm project and Tuskegee University Cooperative Extension Program.
5. Karki, U. 2012. Sustainable grazing management. Presented at 'Year-round pasture production and management' field day, April 7, 2012, 508 14th Street, Phenix City, AL 36867, Russell County Extension Office. SSARE on-farm project and Tuskegee University Cooperative Extension Program.

6. Karki, U. 2012. Year-round pastures and sustainable grazing management. Presented at Greene/Sumter livestock workshop, April 14, 2012, 16378 CO. Rd. 20 Boligee, AL 35443, Levi Morrow Farm. Tuskegee University Cooperative Extension Program.
7. Karki, U. 2012. Silvopasture system. Presented at 'Agroforestry/Silvopasture Workshop', May 17, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL 36083. Tuskegee University College of Agriculture, Environment, and Nutrition Sciences.

2011

1. Karki, U. 2011. Goat nutrition. Presented on August 12 at 'Agriculture and sustainable communities workshop, Hurtsboro, Russell County, Alabama, Friday, August 12, 2011. Jointly organized by Tuskegee University Cooperative Extension Program and Alabama Cooperative Extension System (ACES).
2. Karki, U. 2011. Goat diseases. Presented on August 9 at 'Master goat producer's certification training program', August 8-10. Tuskegee University Caprine Research Unit. Jointly Sponsored by George Washington Carver Agricultural Experiment Station, College of Agricultural, Environmental, and Natural Sciences, and Cooperative Extension Program of Tuskegee University.
3. Karki, U. 2011. Grazing decisions and management. Presented at 'Year-round pasture production and management' workshop, July 29, Union Hill Baptist Church, 434 County Road 59, Union Springs, AL 36089. Organized by Tuskegee University Cooperative Extension Program.
4. Karki, U. 2011. Forage definitions, classification, and physiology. Presented at 'Year-round pasture production and management' workshop, July 29, Union Hill Baptist Church, 434 County Road 59, Union Springs, AL 36089. Organized by Tuskegee University Cooperative Extension Program.
5. Karki, U. 2011. Goat production. USDA/NRCS Informative Meeting. June 29, Hurtsboro Citizen Center, Russell County, AL.
6. Karki, U. 2011. What is a silvopasture system? Presented at 'Silvopasture practice' workshop organized by Tuskegee University Cooperative Extension Program, June 15, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL 36083.
7. Karki, U. 2011. Forage selection, plantation, and management in silvopasture system. Presented at 'Silvopasture practice' workshop organized by Tuskegee University Cooperative Extension Program, June 15, Macon County Commission Chamber, 205 N Main Street, Tuskegee, AL 36083.
8. Karki, U. 2011. Pasture and grazing management for parasite control. Integrated management of internal parasites in goats workshop organized by Tuskegee University Cooperative Extension Program, April 26, The Auburn University Resources Education Center, 1221 County Road 14, Camden, Alabama.
9. Karki, U. 2011. FAMACHA and smart drenching. Integrated management of internal parasites in goats workshop organized by Tuskegee University Cooperative Extension

Program, April 26, The Auburn University Resources Education Center, 1221 County Road 14, Camden, Alabama.

10. Karki, U. 2011. Pasture weeds and importance of their management. Pasture weed identification and management workshop organized by Tuskegee University Cooperative Extension Program, March 25, Union Hill Baptist Church, 434 County Road 59, Union Springs, AL 36089.

2010

1. Karki, U. 2010. Rotational grazing and parasite control. Grazing and Browsing Workshop organized by Tuskegee University Cooperative Extension Program, March 6, 2010, Selma, Alabama.
2. Karki, U. 2010. Goat diseases. Master goat producer's certification training program', jointly Sponsored by George Washington Carver Agricultural Experiment Station, College of Agricultural, Environmental, and Natural Sciences, and Cooperative Extension Program of Tuskegee University, August 9-11, Tuskegee University Caprine Research Unit, Tuskegee, Alabama.
3. Karki, U. 2010. Pasture and grazing management for parasite control (in small ruminants). Integrated management of internal parasites in goats, a training program organized by Tuskegee University Cooperative Extension Program, March 20, Epes, Alabama.
4. Karki, U. 2010. FAMACHA and smart drenching. Integrated management of internal parasites in goats, a training program organized by Tuskegee University Cooperative Extension Program, March 20, Epes, Alabama.
5. Karki, U. 2010. Three different topics presented: forage definition and physiology, forage management and harvest, and grazing decision and management in 'year-round pasture production and management training program' organized by Tuskegee University Cooperative Extension Program. July 24, Union Hill Baptist Church, 434 County Road 59, Union Springs, Alabama.

2009

1. Karki, U. 2009. Goat diseases. Presented on August 3 at 'Master goat producer's certification training program', jointly sponsored by George Washington Carver Agricultural Experiment Station, College of Agricultural, Environmental, and Natural Sciences, and Cooperative Extension Program of Tuskegee University. August 3-5, Patterson Hall Auditorium, Tuskegee University, Tuskegee, Alabama.
2. Karki, U. 2009. Six different topics relevant to 'year-round pasture production and management' presented to county Extension agent for their in-service training. August 18, Morrison-Mayberry Hall training room, Tuskegee University, Tuskegee, Alabama.
3. Karki, U. 2009. Four different topics relevant to goat industry overview, goat nutrition, diseases and health care, and reproduction and breeding presented to a group of goat producers and county Extension agents. Goat producer's training. May 23, Greensboro, Alabama.

Outreach through the Internet and Social Media

- Facebook page: <https://www.facebook.com/livestock.tuextension>
 - Agroforestry page: <https://www.facebook.com/Agroforestry-1108820235873147/>
 - Livestock page: <https://www.facebook.com/TULivestock/>
- Livestock Communication Blog: <http://drkarkiu.blogspot.com/>
- Twitter: <https://twitter.com/@karkiu>

Teaching

Courses Taught

- APSC 0407 Immunology and Farm Animal Diseases, 2009-present
- APSC 0630 Special Problems in Animal Science 2013-present
- AGSC 0699 Nonthesis Graduate Project 2014-present
- APSC 0700 Research in Animal Science 2013-present

Student Advising

- Served as an academic advisor for 60-100 undergraduate students (per year) enrolled in the Animal and Poultry Science Program.
- Served as a major advisor for 3-5 graduate students each year.
- Served as a graduate committee member for students as requested.

Served as the Major Advisor for Graduate Students (Thesis Option): Award-Winning Advisees

13 Thesis advisees

Acharya, A. 2026 (In progress). Evaluation of southern pine silvopasture and open-pasture systems for heat stress on and enteric methane emissions from Kiko does. Thesis (In progress), Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Acharya, S. 2026 (In progress). Evaluation of southern pine silvopasture and open-pasture systems for heat stress on and enteric methane emissions from Kiko does. Thesis (In progress), Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Dumre, M. 2026 (In progress). Evaluation of southern pine silvopasture and open-pasture systems for heat stress on and enteric methane emissions from Kiko does. Thesis (In progress), Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

White, E. 2025. Evaluating the effect of BioWorma in controlling gastrointestinal nematodes in does during late pregnancy and early lactation. Thesis (In progress), Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences,

College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

- Bhatrai, S. 2019. Evaluating the use of small ruminants in woodlands: behavior, performance, and ecosystem impacts. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL. (*Departmental outstanding graduate student in 2019, and departmental outstanding thesis in 2020*)
- Chaudhary, S. 2023. Performance of nursing ewes and lambs, and immune response of nursing ewes to the natural challenge of gastrointestinal parasites while grazing in woodlands with different supplements. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.
- Dhakal, D. 2024. Efficacy of Livamol with BioWorma for controlling gastrointestinal nematodes in nursing Kiko does and kids raised on pastures. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.
- Khatri, R. 2016. Use of woodlands and browse as complementary to the year-round grazing for goats. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL. (*Departmental outstanding graduate student in 2016, and departmental outstanding thesis in 2017*)
- Lamsal, S. 2024. Effect of indoor and outdoor rearing of pregnant does and ewes on performance, GI parasite prevalence, blood profile, immune response, and stress during winter. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.
- Paneru, B. 2020. Performance, behavior, vegetation preference, and landscape-use pattern of Kiko wethers and Katahdin rams co-stocked in woodlands. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL. (*Departmental outstanding master's student in 2020*)
- Poudel, S. 2018. Grazing behavior and distribution pattern of Kiko wethers and Katahdin rams in southern pine silvopastures. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL. (*Departmental outstanding graduate student in 2018, and departmental outstanding thesis in 2019*)
- Shrestha, B. 2022. Identifying a viable strategy for supplementing lactating Kiko does and kids when stocked in woodlands for desirable performance and health status. Thesis, Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.
- Tiwari, A. 2021. Use of leguminous forages to promote the health and performance of small ruminants. Thesis, Master of Science in Animal and Poultry Sciences, Department of

Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Served as the Major Advisor for Graduate Students (Non-Thesis Option)

3 Non-thesis advisees

Johnson, J. L. 2021. Load of gastrointestinal parasites in small ruminants with or without leguminous forages during the fall season. Non-Thesis Report for Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Norwood, K. C. 2021. Health and performance of small ruminants raised by farmers in different seasons. Non-Thesis Report for Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Tillman, A. R. 2017. Preference of Kiko goats for selected browse species. Non-Thesis Report for Master of Science in Animal and Poultry Sciences, Department of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL.

Professional Contributions

Service to Professional Societies and Committees

1. Editor-In-Chief, Global Journal of Agricultural and Allied Sciences (GJAAS), Nepalese Association of Agricultural Professional of Americas, USA, 2023-present.
2. Editor, Global Journal of Agricultural and Allied Sciences (GJAAS), Nepalese Association of Agricultural Professional of Americas, USA, 2016-2022.
3. Executive Committee Vice Chair, Nepalese Agricultural Professionals of Americas (NAPA), 2024-present.
4. Executive Committee Member, Nepalese Agricultural Professionals of Americas (NAPA), 2020-24.
5. Editor, Principles and Practices of Food Security: Sustainable, Sufficient and Safe Food for Healthy Living in Nepal, 2020, Nepalese Association of Agricultural Professional of Americas, USA.
6. Chair, Southern Region Program Leadership Committee (PLC), 2023-2024
7. Vice chair, Southern Region Program Leadership Committee (PLC), 2022-2023
8. Member, Southern Region Program Leadership Committee (PLC), 2021-2022.
9. Member, Southern Region Program Leadership Network (PLN), Agriculture and Natural Resources, 2013-present.
10. President, Association for Temperate Agroforestry, 2019-2021.
11. President-elect and Agroforeter Newsletter committee Chair and editor, Association for Temperate Agroforestry, 2017-2019.
12. Executive member and Agroforeter Newsletter Editor, Association for Temperate Agroforestry, 2015-2017.
13. Chair, Proceedings Committee, 3rd National Goat Conference 2016-2018.

14. Chair, Small Ruminant Committee for 2017 American Society of Animal Science (ASAS) Annual Conference.
15. Chair, Small Ruminant Committee for 2015 ASAS conference.
16. Member, Small Ruminant Committee for 2014 ASAS conference.
17. Vice-President, 1890 Agroforestry Consortium, 2014-present.
18. Member, 1890 Agroforestry Consortium, 2011-2014.
19. Member, National Goat Consortium, 2017-present.
20. eXtension Goat Industry Leadership Member 2009-2018.

Departmental Committee

Chair, Outstanding Graduate Student and Outstanding Thesis/Dissertation Recognition Committee, Department of Agricultural and Environmental Sciences (DAES), Tuskegee University, 2014-2020.

Professional and Honor Society Membership

- 1890 Agroforestry Consortium
- American Registry of Professional Animal Scientists
- American Society of Animal Science
- Association for Temperate Agroforestry
- Association of Nepalese Agricultural Professionals of Americas
- Gamma Sigma Delta, the Honor Society of Agriculture
- National Goat Consortium

Panelist

1. Karki, U. 2023. Partnerships for Climate-Smart Commodities Grantees Panel. 2023 NACD Southeast Region Meeting, August 8, Hyatt Regency, Savannah, GA.
2. Karki, U. 2024. Opening Plenary Climate Smart Commodities Partnership Panel. March 14, 132nd Annual Farmers Conference, Embassy suites, Downtown Montgomery, AL.
3. Karki, U. 2024. Climate-Smart Agricultural Practices & Opportunities for Farmers. February 15, Webinar hosted by the Council on Food, Agriculture and Resource Economics-CFARE.