

### *Short CV*

## **Uma Karki, Ph.D.**

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### **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

Bachelor of Veterinary Science and Animal Husbandry, Tribhuvan University, Institute of Agriculture and Animal Science (IAAS), Nepal, 1994

Bachelor of Science in Animal Science, Tribhuvan University, IAAS, Nepal, 1992

### **Professional Experience**

Research-Extension Professor and State Extension Livestock Specialist July 2019-Present, Tuskegee University

Associate Professor and State Extension Livestock Specialist June 2014- June 2019, Tuskegee University

Assistant Professor and State Extension Livestock Specialist 2009-May 2014, Tuskegee University

Graduate Research Assistant 2005-2008, Dept. of Agronomy and Soils, Auburn University

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

### **Excellence Awards**

Early Career Award, Association for Temperate Agroforestry, 2017 for extraordinary early career accomplishments at the highest levels of professional practice and leadership, USA  
2015 1890 Excellence in Extension Award, Association of Extension Administrators, 1890 Cooperative Extension System, USA

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

### **Recent Grant Projects**

PI, Integrated Approach for Managing Diseases and Parasites in Small Ruminants in the Southeast. 2018-2021. USDA NIFA Capacity Building Grant, \$600,000.00.

Co-PI, Experiential learning in the animal sciences: preconditioning of beef calves. 2017-2020, USDA/NIFA Capacity Building Grant, \$299,790.00

Co-PI, Development of a forest management system to enhance ecosystem restoration and management for limited resource landowners. 2016-2019, USDA/NIFA Capacity Building Grant, \$599,999.00

PI, Agroforestry-based cropping systems for sustaining small and medium-sized landowners in the southeastern US. 2015-2020, USDA/NIFA Agriculture and Food Research Initiative (AFRI), \$480,000.00

### **Teaching**

APSC 0407 Immunology and Farm Animal Diseases, 2009-present

### **Professional/Honor Society Membership**

American Society of Animal Science, American Registry of Professional Animal Scientists, National Goat Consortium, Association for Temperate Agroforestry, 1890 Agroforestry Consortium, Gamma Sigma Delta, eXtension Goat Industry, National Goat Consortium

## Extension/Outreach Service

Lead and resource person: Integrated approach for preventing diseases and parasites in small ruminants, 2009-present; sustainable year-round forage production and grazing/browsing management program, 2009-present; sustainable agroforestry program, 2010-present.

## Publications (*Last 2 years*)

### *Refereed Journal Articles*

- 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>.
- 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)*, Vol. 7 (No. 1). Available at: <https://tuspubs.tuskegee.edu/pawj/vol7/iss1/7/>
- Paneru, B., U. Karki, S. Bhattra, and N. Ellis. 2019. Growth period of different browse species suitable for grazing small ruminants. *Professional Agricultural Workers Journal (PAWJ)*, Vol. 7 (No. 1). Available online: <https://tuspubs.tuskegee.edu/pawj/vol7/iss1/10/>
- 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*, Vol. 175, June, Pages 1-6. DOI: <https://doi.org/10.1016/j.smallrumres.2019.03.005>
- 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*. Volume 94, 29-40 (2020). Published online February 1, 2019 DOI: 10.1007/s10457-019-00359-7 Online First.
- 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)*, Vol. 5, Issue 4, October, pages 37-50. Available at <http://www.eajournals.org/journals/international-journal-agricultural-extension-rural-development-studies-ijaerds/vol-5-issue-4-october-2018/>
- 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*. Volume 93, 1887-1896 (2019). Published online September 29, 2018 - DOI: 10.1007/s10457-018-0294-7 Online First.
- 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*. Volume 93 (5), 1647-1657 (2019). Published online June 27, 2018 - DOI: 10.1007/s10457-018-0271-1 Online First. (shareIt - <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*. Published online April 11, 2018 - DOI: 10.1007/s10457-016-9934-y Online First.

*List of additional publication available at this link:*

<https://drkarkiu.blogspot.com/2012/11/publication-links.html>

*Recent Scientific Conference Abstracts and Presentations*

- 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. 52<sup>nd</sup> Annual Meeting of Southern Agricultural Economics Association (SAEA), February 1-4, Louisville, KY.
- 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*)
- 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, Chatanooga, TN.
- 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, Chatanooga, TN.
- Nevershi, E., 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, Chatanooga, TN.

*(71 Abstracts and conference presentations and four proceedings paper published in the last five years).*

*Training Curricula Developed & Chapters Contributed (7)*

- Karki, U. (Ed.). 2015. Sustainable agroforestry practices in the Southeastern Region. Handbook for training field Extension and technical assistance personnel. Tuskegee University Cooperative Extension, College of Agriculture, Environment and Nutrition Sciences. Publication No. TUAG1015-01, Pages 173.
- Karki, U. (Editor, Script Writer, Director). 2014. Educational video on “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. (Ed.). 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. Publication No. TUAG0213-01.

*Extension Educational Materials Developed, Published, & Shared*

List of publication available at this link:

<https://drkarkiu.blogspot.com/search?q=sustainable>

Outreach through internet & 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>