

## **Gaurav Dhungel**

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## **EDUCATION**

### **- Ph.D.**

Forestry and Environmental Resources, North Carolina State University, 2025.

- Minor: Economics
- Dissertation: *Long-term Sustainability of Oak Resource in the US: Role of Management and Markets*
  - Advisor: Dr. Justin S. Baker

### **- M.S.**

Forest and Natural Resource Science, University of Kentucky, 2021.

- Thesis: *Sustainability and Economics of White Oak (Quercus alba) Timber Supply in Kentucky*
  - Advisor: Dr. Thomas O. Ochuodho

### **- B.S.**

Forestry, Tribhuvan University, Institute of Forestry Hetauda Campus, 2018.

- Thesis: *Investigating Habitat and Conservation Issues of Re-introduced Wild Water Buffalo in Chitwan National Park, Nepal*
  - Advisor: Dr. Damodar Gaire

### **- Technical Certificate**

Forestry, Tribhuvan University, Institute of Forestry Hetauda Campus, 2013.

## **POSITIONS AND AFFILIATIONS**

### **- ORISE Research Fellow**

- USDA Forest Service-Southern Research Station. July 2025-Present.
  - Project: *Economic analysis and modeling on hardwood management and novel markets for biochar sourced from hardwood pulpwood.*

### **- Graduate Research Assistant, Baker Resource Economics and Sustainability Lab**

- Dept. of Forestry and Environmental Resources, North Carolina State University. 2021-2025.

### **- Student Affiliate, Southern Forest Resource Assessment Consortium (SOFAC)**

- Dept. of Forestry and Environmental Resources, North Carolina State University. 2021-2025.

### **- Graduate Student Affiliate**

- Center for Environmental and Resource Economic Policy. 2021-2025.

### **- Graduate Research Assistant, Integrated Biophysical-Economic Analysis and Modeling Lab**

- Dept. of Forestry and Natural Resources, University of Kentucky. 2019-2021.

## HONORS AND AWARDS

- AERE Summer Conference Travel Scholarship. 2024.
- Camp Resources XXIX Travel Support. 2023.
- Student Diversity Scholar. Society of American Foresters. 2021.
- University Graduate Fellowship. Dept. of Forestry and Environmental Resources, North Carolina State University. 2021
- Graduation Regalia Award. University of Kentucky. 2021.
- Graduate Student Award of Excellence. Dept. of Forestry and Natural Resources, University of Kentucky. 2021.
- WWF Nepal Research Grant. 2018.
- IDEA WILD Equipment Support. 2018.
- Outstanding Students Scholarship. Institute of Forestry Hetauda Campus, Tribhuvan University. 2014-2018.

## PUBLICATIONS AND OTHER MANUSCRIPTS

### Journal Articles

- Dhungel, G.,** Baker, J. and Henderson, J.D. (2026). Physical Presence, Practical Absence: Accessibility of Timber Inventory in the Eastern US. *Trees, Forests and People*.  
<https://doi.org/10.1016/j.tfp.2026.101155>
- Dhungel, G.** and Ochuodho, T.O. (2024). Economic Impacts of Projected White Oak (*Quercus alba* L.) Timber Supply in Kentucky: A CGE Model Analysis. *Forests*. 15(1), 93.  
<https://doi.org/10.3390/f15010093>
- Dhungel, G.,** Ochuodho, T.O., Lhotka, J.M., Stringer, J.W., Poudel, K. (2024). Sustainability of White Oak (*Quercus alba*) Timber Supply in Kentucky. *Journal of Forestry*. 122(1), 79-90.  
<https://doi.org/10.1093/jofore/fvad041>
- Dhungel, G.,** Rossi, D., Henderson, J.D., Abt, R.C., Sheffield, R., Baker, J.S. (2023). Critical Market Tipping Points for High-Grade White Oak Inventory Decline in the Central Hardwood Region of the United States. *Journal of Forestry*. 121(3), 224-234. <https://doi.org/10.1093/jofore/fvad005>
- Adhikari, R.K., Poudyal, N.C., Ochuodho, T.O., Parajuli, R., Joshi, O., Mehmood, S.R., Munsell, J.F., **Dhungel, G.,** Thomas, W., Crocker, E., Zhou, M. (2023). Predictors of Landowners' Intention to Manage Emerald Ash Borer in Kentucky. *Forest Science*. 69(4), 452-462.  
<https://doi.org/10.1093/forsci/xfad008>
- Adhikari, R.K., Poudyal, N.C., Ochuodho, T.O., Parajuli, R., Joshi, O., Mehmood, S.R., Munsell, J.F., **Dhungel, G.,** Thomas, W., Crocker, E., Zhou, M. (2023). Understanding Forest Landowner Attitudes, Perceived Risk, and Response to Emerald Ash Borer in Kentucky. *Journal of Forestry*. 121(2), 157–167. <https://doi.org/10.1093/jofore/fvac040>

Poudel, K., Ochuodho, T.O., **Dhungel, G.** (2023). Economic Contribution of the Forest Sector in Kentucky: Community Dependence and Economic Well-Being. *Journal of Forestry*. 121(2), 135–144. <https://doi.org/10.1093/jofore/fvac038>

**Dhungel G.**, Thanet, D.R. (2019). Investigating Habitat Suitability and Conservation Issues of Re-introduced Wild Water Buffalo in Chitwan National Park, Nepal. *Forestry: Journal of Institute of Forestry*. 16: 1-13. <https://doi.org/10.3126/forestry.v16i0.28350>

### Technical Reports

Rossi, D., **Dhungel, G.**, Baker, J.S., Abt., R.C. (2023). *Quantifying Intra-regional Carbon Leakage Potential from Multi-year Harvest Deferral Programs in the Southern United States*. Prepared for National Council for Air and Stream Improvement (NCASI).

Stringer J.W., Thomas, B., Ammerman, B., Niman, C., Agyeman, D., **Dhungel, G.**, Ochuodho, T.O. (2020). *Kentucky Forest Sector Economic Contribution Report 2018-2019*. Department of Forestry and Natural Resources, Forestry Extension Office, University of Kentucky.

### Blog Posts

**Dhungel, G.** and Baker, J.S. (2024). New Markets for Small Roundwood and Forest Residues in Appalachia.

- Featured in *National Woodlands Magazine*. 47(2).

**Dhungel, G.**, Rossi, D., Baker, J.S. (2023). Demand growth and price responsiveness can influence inventory tipping points of high-grade white oak.

### Manuscripts in Progress

**Dhungel, G.**, Baker, J.S., Forrester, J.A. and Sills, E.O. (2025). Management, Markets, and Mesophication: An Empirical Exploration of Oak Forests in the Southeastern US. *Under Review*. <https://dx.doi.org/10.2139/ssrn.5166393>

**Dhungel, G.**, Baker, J.S. and Forrester, J.A. (2025). Economics of Potential Alternative Oak Management Practice in the Southern Appalachian Region. *In Preparation*.

**Dhungel, G.**, Baker, J.S., Henderson, J.D., Cook, R., and Forrester, J.A. (2026). Biochar and Its Applications in US Forestry. *In Preparation*.

### TECHNICAL SKILLS

RStudio | Computable General Equilibrium (CGE) modeling | Forest Inventory and Analysis (FIA) Data and Tools | Forest Vegetation Simulator (FVS) | IMPLAN | SubRegional Timber Supply (SRTS) | ArcGIS Pro | SQLite | General Algebraic Modeling System (GAMS) | Overleaf

## PROFESSIONAL SERVICE

- Handle SRTS data request for SOFAC members, 2024.
- Association of Environmental and Resource Economists Summer Conference, 2024 (**Moderator**).
- Association of Environmental and Resource Economists (**Member**).
- Society of American Foresters (**Member**).
- International Society of Forest Resource Economics (**Member**).
- University of Kentucky Graduate Student Congress (**Member**).
- Rotaract Club of Hetauda (**Member**)
- Journal of Forestry (**Reviewer**)
- Canadian Journal of Forest Research (**Reviewer**)

## PROFESSIONAL PRESENTATION

**Dhungel, G.** and Baker, J.S. (2025, September). *Economics of Sustainable Oak Management in the Southern Appalachian Region*. SOFAC Annual Meeting. North Carolina State University.

**Dhungel, G.** and Baker, J.S. (2025, March). *Potential Alternative Management Practices for Sustaining Oak Forests in the Southern Appalachian Region*. SOFAC Technical Meeting. North Carolina State University.

**Dhungel, G.** (2025, February). *Managing Forest for Multiple Objectives Under Changing Forest Dynamics: A Case for Upland Oak Forests in the US*. Guest Lecture Natural Resource Management (NR 400/500). North Carolina State University.

**Dhungel, G.** and Baker, J.S. (2024, October). *Management, Market, and Mesophication: An Empirical Exploration of Oak Forests in the Southeast*. International Oak Symposium. Knoxville, TN.

**Dhungel, G.** and Baker, J.S. (2024, October). *Potential Costs and Benefits of Alternative Oak Management Regimes in the Central Hardwood Region of the US*. International Oak Symposium. Knoxville, TN.

**Dhungel, G.** and Baker, J.S. (2024, August). *Updates on Hardwood Research*. SOFAC Annual Meeting. North Carolina State University.

**Dhungel, G.** and Baker, J.S. (2024, August). *Hardwood Modeling: Management and Accessibility*. Forest Carbon Economics and Modeling Workshop. The University of Maine.

**Dhungel, G.** and Baker, J.S. (2024, May). *Management, Market, and Endogenous Ecological Change: An Empirical Exploration of Oak Forests in the US*. Association of Environmental and Resource Economists (AERE) Summer Conference. Washington DC.

**Dhungel, G.** and Baker, J.S. (2024, March). *Management, Market, and Mesophication: An Empirical Exploration of Oak Forests*. Central Hardwoods Forest Conference. Lexington, KY.

- Dhungel, G.** and Baker, J.S. (2024, March). *Biophysical and Social Constraints on Wood and Carbon Availability in the Southeastern US*. Forest Carbon Solutions Initiative. North Carolina State University.
- Dhungel, G.** and Baker, J.S. (2024, February). *Updates on Hardwood Research*. SOFAC Technical Meeting. North Carolina State University.
- Dhungel, G.** and Baker, J.S. (2023, August). *Management Intervention and Endogenous Ecological Change: An Empirical Exploration of Oak Forests*. SOFAC Annual Meeting. North Carolina State University.
- Dhungel, G.** and Baker, J.S. (2023, August). *The Effect of Management Intervention on Mesophication of Historically Oak Dominated Forests*. Camp Resources XXIX. Asheville, NC.
- Dhungel, G.,** et al. (2023, February). *Sub-Regional Timber Supply (SRTS) Extension to the Central Hardwood Region*. SOFAC Technical Meeting. North Carolina State University.
- Dhungel, G.,** et al. (2022, August). *Critical market tipping points for high-grade white oak inventory decline in the central hardwood region of the United States*. SOFAC Annual Meeting. North Carolina State University.
- Dhungel, G.,** et al. (2022, April). *Sustainability of White Oak (*Quercus alba*) Timber Supply in Kentucky*. Central Hardwoods Forest Conference. Morgantown, WV.
- Dhungel, G.** and Ochuodho, T.O. (2022, April). *Economy-wide impacts of White Oak (*Quercus alba*) Timber Supply in Kentucky*. Central Hardwoods Forest Conference. Morgantown, WV.
- Dhungel, G.** and Ochuodho, T.O. (2021, November). *Economy-wide impacts of White Oak (*Quercus alba*) Timber Supply in Kentucky*. Society of American Foresters. Virtual Convention.
- Dhungel, G.** and Ochuodho, T.O. (2021, May). *Economy-wide impacts of White Oak (*Quercus alba*) Timber Supply in Kentucky*. International Society of Forest Resource Economics. Virtual Convention.
- Dhungel, G.,** et al. (2020, October). *Sustainability and Economics of White Oak (*Quercus alba*) Timber Supply in Kentucky*. Society of American Foresters. Virtual Convention.