

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. 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*.

Dhungel, G., Baker, J.S. and Henderson, J.D. (2025). Physical Presence, Practical Absence: Accessibility of Timber Inventory in the Eastern US. *Under Review*.

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

TECHNICAL SKILLS

- | | |
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| - RStudio | - Computable General Equilibrium (CGE) modeling |
| - Forest Inventory and Analysis (FIA) Data and Tools | - Subregional Timber Supply (SRTS) |
| - Forest Vegetation Simulator (FVS) | - ArcGIS Pro |
| - IMPLAN | - 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.