

## **Gaurav Dhungel**

3134A Avent Ferry Rd, Raleigh, NC 27606

Email: [gdhunge@ncsu.edu](mailto:gdhunge@ncsu.edu)

Cell: (859) 693-3938

### **EDUCATION**

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

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

- Minor: Economics
- Dissertation: *Long-term Sustainability of Oak Resource in the US: Role of Management and Market*
  - 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**

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

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

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

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

#### - **Graduate Student Affiliate**

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

#### - **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/foxad008>
- 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 Preparation**

**Dhungel, G.**, Baker, J.S., Forrester, J.A., Sills, E.O. (2024). Management, Markets, and Mesophication: An Empirical Exploration of Oak Forests in the Southeastern US. *In Preparation*.

**Dhungel, G.**, Baker, J.S., Henderson, J.D. (2024). Timber Inventory vs Availability: Understanding Accessibility of Timber in the Eastern US. *Under Review*.

### **TECHNICAL SKILLS**

- RStudio, Forest Inventory and Analysis (FIA) Data and Tools, Forest Vegetation Simulator (FVS), IMPLAN, General Algebraic Modeling System (GAMS), Computable General Equilibrium (CGE) modeling, Subregional Timber Supply (SRTS), ArcGIS Pro, Stata, SQLite.

### **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**)

### **PROFESSIONAL PRESENTATION**

**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, 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 and Economics 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.