Milan Dhakal

Forestry | GIS and Remote Sensing | Climate Change | Research

GENERAL INFORMATION

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Milan Dhakal | Nationality: Nepalese | Address: Kaligandaki-06, Gulmi

EDUCATION

2018 - 2023

Agriculture and Forestry University (afu.edu.np), Hetauda, Nepal

Forestry, Bachelor of Science

Thesis: Dhakal, M. (2023). Forest Fire Risk Modeling Using Geospatial Tools and Techniques in Chure Tarai Madhesh Landscape (CTML): A B.Sc. Forestry report submitted to Agriculture and Forestry University, Faculty of Forestry, Hetauda, Nepal.

EXPERIENCE

FOREST TECHNICIAN

2020 - Present

Community and Sustainable Forest Management, (khotang, Bara, Chitwan, Makawanpur)

Key activities: Forest resource inventory, Geospatial mapping, data interpretation and Analysis, and operational plan preparation.

RESOURCE PERSON

April-2025

Conducted training session on **"Capacity building training on bamboo cultivation, management and potential market development"**

Supported by Forest and Farm Facility (FAO) and Women Agricultural Entrepreneurs Group

INTERN STUDENT

Aug 2023 – Oct 2023

Ramat Negev International Training Center, South District, Israel

- Plant science, business management skills, computer skills, **Learning and Earning experience,** and Israel's History and Culture.

Feb 2023- July 2023

Forest Research and Training Centre (frtc.gov.np), Kathmandu, Nepal

(Forest Inventory and Carbon Mapping section)

- Allometric equations development of 7 major species involving Field, lab work, data entry and cleansing.
- Bamboo Resource Assessment outside the Forest areas using visual image interpretation through Collect Earth Online (CEO), laboratory work for biomass modeling and Quality Assurance and Quality Control (QA/QC) processes.

SKILLS

Languages

Nepali, English

Technical Competency:

- Software: ArcGIS, QGIS, Google Earth, Google Earth Engine, Git, VS Code
- Programming language: Python, JavaScript, R,
- Structured Languages: HTML, CSS
- Advanced Proficiency in MS-office attributes, and Power BI,
- Collect Earth Online (CEO), Google Forms, and JotForm,
- Advanced graphic designing (Adobe Photoshop and Adobe Illustrator).

TRAINING AND PARTICIPATION

March 2024	**Going Places with Spatial Analysis,** *Esri's 6-week free online course*
Jan 2024	**Introduction to Geospatial Data Analysis with Google Earth Engine,** *UNU Institute for Water, Environment and Health*
5 – 11 Jul 2023	**Visual Image Interpretation of Forest Cover Change Using CEO, (Forest degradation and forest cover change analysis for carbon trade)** *FRTC and World Bank, Kathmandu, Nepal*
Jan 2023	**Deep learning in forest research,** *Building a Resilient Churia Region in Nepal (BRCRN),*
5th – 11 Jul 2023	**Forest Resource Assessment (FRA) Inventory Guideline, 2022,** *Forest Research and Training Centre, Kathmandu, Nepal*
2nd – 5th Jan 2022	**Parliamentary Resolution for Invasive Alien Species Management Policies,** *Faculty of Forestry (AFU) and the Tony Hagen Foundation*
5th – 10th April 2021	Training on **handling and operating camera traps**, *Parsa National Park Official and Zoological Society of London (ZSL)*
7th – 17th July 2020	**Community Forest Constitution, and Operational Plan Preparation**.

PROJECTS INVOLVED

11th – 18th Feb. 2023	**Fieldwork on the allometric equation development of 7 major species in western Nepal**. *PEES-RAJDEVI-SMART-JV* with technical support of *Forest Research and Training Center, Kathmandu, Nepal*
Feb 18th – March 3rd, 2021,	**Fieldwork on the Soil Sample Collection of Makawanpur District for Digital Soil Mapping.** *Department of Land Management and Archive, Kathmandu, Nepal.*

RESEARCH PUBLICATIONS

2025	Kunwar, S., **Dhakal, M.***, Parajuli, A. Forest Fire Risk Assessment using Machine Learning and Earth Observation Technique in Himalayan Regions: Insights from Rasuwa District, Nepal. Submitted to *Natural Hazards and Earth System Sciences*
2024	Pokhrel, S., Neupane, P., Paudel, N., **Dhakal, M.**, Lamichhane, P., Khadka. A. How Will the Climate Change Shift the Suitable Area of Seven Woody Bamboo Species in Nepal? Evidences from Ensemble Species Distribution Modeling. Submitted to *Ecology and Evolution*. Wiley. DOI: 10.22541/au.173697608.88721540/v1
2024	**Dhakal, M.**, Bhatta, B., Lamichhane, P., & Parajuli, A. (2024). Synergistic approaches in forest fire risk mapping using fuzzy AHP and machine learning models in the Chure Tarai Madhesh Landscape (CTML) of Nepal. *Geomatics, Natural Hazards and Risk*, *15*(1). https://doi.org/10.1080/19475705.2024.2436540

RESEARCH EXPERIENCE

2024	Habitat Suitability Mapping and Threats to Red Panda in Gaurishankar Conservation Area (GCAP), Nepal. Supported by: Red Panda Network, Nepal, and Deepjyoti Youth Club.

REFERENCE

Dr. Balram Bhatta
Head/ Professor (Ecology and Environmental Science)
faculty of forestry
Agriculture and forestry university, Hetauda, Nepal

Dr. Balkrishna Ghimire
Assistant Professor of Botany
faculty of forestry
Agriculture and forestry university, Hetauda, Nepal