


Milan Dhakal

Forestry | GIS and Remote Sensing | Climate Change | Research | Wildfire



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.

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.
- LiDAR-based scanning field survey in western Nepal.
- Research Methodology for Forest Research and Data Analytics.
- Land Use Land Cover Analysis, Forest degradation, and restoration mapping for carbon trade, Species Distribution Modelling.



SKILLS



Languages

Nepali, English



Technical Competency:

- Software: ArcGIS, QGIS, Google Earth, Google Earth Engine,
- Programming language: Python, Java, R,
- 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, <i>Esri's 6-week free online course</i>
Jan 2024	Introduction to Geospatial Data Analysis with Google Earth Engine, <i>UNU Institute for Water, Environment and Health</i>
5 – 11 Jul 2023	Visual Image Interpretation of Forest Cover Change Using CEO, (Forest degradation and forest cover change analysis for carbon trade) <i>FRTC and World Bank, Kathmandu, Nepal</i>
Jan 2023	Deep learning in forest research, <i>Building a Resilient Churia Region in Nepal (BRCRN),</i>
5 th – 11 Jul 2023	Forest Resource Assessment (FRA) Inventory Guideline, 2022, <i>Forest Research and Training Centre, Kathmandu, Nepal</i>
10 th -14 th March 2023	Training on Google Earth Engine and R-Studio, <i>Forest Research and Training Centre, Kathmandu, Nepal</i>
2 nd – 5 th Jan 2022	Parliamentary Resolution for Invasive Alien Species Management Policies, <i>Faculty of Forestry (AFU) and the Tony Hagen Foundation</i>
5 th – 10 th April 2021	Training on handling and operating camera traps, <i>Parsa National Park Official and Zoological Society of London (ZSL)</i>
7 th – 17 th July 2020	Community Forest Constitution, and Operational Plan Preparation.



PROJECTS INVOLVED

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



RESEARCH PUBLICATIONS

2024	Kunwar, S., Dhakal, M.* , Silwal, R. Forest Fire Risk Assessment using Multi-Criteria Decision Analysis and Earth Observation Technique in Mountain Regions: Insights from Rasuwa District, Nepal. Submitted to <i>Remote Sensing Applications: Society and Environment</i> .
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 <i>Ecology and Evolution</i> . Wiley.
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. <i>Geomatics, Natural Hazards and Risk</i> , 15(1). https://doi.org/10.1080/19475705.2024.2436540



REFERENCE

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