

# Milan Dhakal

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 Nationality: Nepalese | Address: Kaligandaki-06, Gulmi

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

Last updated: Aug, 2025



## 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: Native

English: Good User  
(IELTS)



### Driving License:

A (two wheelers)



### 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

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- 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),*
- 5<sup>th</sup> – 11 Jul 2023      **Forest Resource Assessment (FRA) Inventory Guideline, 2022,**  
*Forest Research and Training Centre, Kathmandu, Nepal*
- 2<sup>nd</sup> – 5<sup>th</sup> Jan 2022      **Parliamentary Resolution for Invasive Alien Species Management Policies,**  
*Faculty of Forestry (AFU) and the Tony Hagen Foundation*
- 5<sup>th</sup> – 10<sup>th</sup> April 2021      Training on **handling and operating camera traps,**  
*Parsa National Park Official and Zoological Society of London (ZSL)*
- 7<sup>th</sup> – 17<sup>th</sup> July 2020      **Community Forest Constitution, and Operational Plan Preparation.**



## PROJECTS INVOLVED

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- 11<sup>th</sup> – 18<sup>th</sup> 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

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- 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*. <https://doi.org/10.5194/egusphere-2025-2492>
- 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](https://doi.org/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

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- 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

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| <p>Dr. Balram Bhatta<br/>Head/ Professor (Ecology and Environmental Science)<br/>faculty of forestry<br/>Agriculture and forestry university, Hetauda, Nepal<br/>✉ <a href="mailto:bbhatta@afu.edu.np">bbhatta@afu.edu.np</a></p> | <p>Dr. Balkrishna Ghimire<br/>Assistant Professor of Botany<br/>faculty of forestry<br/>Agriculture and forestry university, Hetauda, Nepal<br/>✉ <a href="mailto:ghimire2ab@gmail.com">ghimire2ab@gmail.com</a></p> |
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