

Forestry | GIS and Remote Sensing | Climate Change | Research



GENERAL INFORMATION

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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, <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>
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

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 <i>Natural Hazards and Earth System Sciences</i> . 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 <i>Ecology and Evolution</i> . 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. <i>Geomatics, Natural Hazards and Risk</i> , 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 Deepiyoti Youth Club.
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REFERENCE

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