




## GENERAL INFORMATION

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## EDUCATION

2018 - 2023

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



## PROJECTS INVOLVED

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



## RESEARCH PUBLICATIONS

2024	Kunwar, S., <b>Dhakal, M.*</b> , 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., <b>Dhakal, M.</b> , 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	<b>Dhakal, M.</b> , 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). <a href="https://doi.org/10.1080/19475705.2024.2436540">https://doi.org/10.1080/19475705.2024.2436540</a>



## REFERENCE

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