

ANUSHA LOHANI

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Kathmandu, Bagmati - 44600, Nepal

OBJECTIVE

Seeking a challenging position in research and analysis where I can leverage my expertise in geospatial technologies, environmental assessment, and data-driven problem-solving. I aim to contribute to innovative projects focused on sustainable resource management, climate resilience, and land-use planning while further developing my analytical and technical skills.

ACADEMIC EXPERIENCES

- Tri-Chandra Multiple Campus** Jan 2023 – May 2023
Research Trainee
Kathmandu, Nepal
 - Assisting in Plant Research and Data Collection
 - Learning and Applying Laboratory Techniques
 - Contributing to Literature Reviews and Manuscript Writing
- Agriculture Technology Centre (ATC)** June 2023 – Aug 2023
Lab Trainee
Kathmandu, Nepal
 - Analyzed soil nutrients including nitrogen, carbon, and organic matter.
 - Assessed soil properties such as pH, moisture, and temperature.
- Tri-Chandra Multiple Campus** Sep 2023 – Mar 2024
Teaching Trainee
Kathmandu, Nepal
 - Lectured on plant diversity and regeneration. Discussed environmental and ecosystem dynamics.
 - Discussed environmental and ecosystem dynamics.

EDUCATION

- Tri-Chandra Multiple Campus** 2019 - 2022
Bachelor Degree
Kathmandu, Nepal
 - Grade : 67.70%
- Canvas International College** 2016-2018
Pre-University Education
Kathmandu, Nepal
 - GPA: 3.25

PROJECTS

- Sustainable Land Use Project : [EIA Intern]** Mar–Apr 2021
Tools: [Quadrat sampling, Soil Moisture Sensor, Walkley-Black Method, DBH tape, clinometer, pH meter, R]
 - Conducted ecological surveys to assess the impact of highway expansion on community forest biodiversity.
 - Analyzed soil health and vegetation changes due to highway expansion.
 - Evaluated the effects of highway construction on plant diversity and forest structure.
- Community Forest Restoration: [Field Project Coordinator]** Sep–Nov 2023
Tools: [GIS mapping (QGIS/ArcGIS), Surveys, interviews, participatory rural appraisal (PRA, pH meter, moisture sensor)]
 - Led biodiversity assessments and soil analysis for community forest restoration.
 - Developed afforestation plans and restoration strategies.
 - Collaborated with local communities to implement sustainable forest management practices.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [S.1] **Lohani, A., Khadka, S., and Sharma, P. K. (2024). Ecological Insights into a Sub-Tropical Mixed Community Forest: Tree Diversity, Regeneration, and Carbon Sequestration in Nuwakot, Central Nepal.** (Manuscript under peer review in *Journal of Tropical Forest Science*.)
- [S.2] **Khadka, S., Lohani, A., and Sharma, P. K. (2024). Community Forestry in Eastern Nepal: Biodiversity and Carbon Perspectives.** (Under Peer review in *Banko Jankari*.)

SKILLS

- Soft Skills:** Communication and teamwork, Critical thinking and problem-solving, Time management and adaptability, Scientific writing and presentation
- Technical Tools:** QGIS, ArcGIS (Field Maps, Spatial Analysis), Google Earth Engine (GEE), Excel, Word
- Programming & Analysis:** R programming, Python (statistical analysis)
- Geospatial Tools:** DEM Analysis, Slope and Aspect Calculations
- Research Techniques:** Ecological surveys, Biodiversity monitoring, Data collection, Data interpretation
- Writing Tools:** LaTeX for scientific writing

GRANTS AND SCHOLARSHIPS

• Merit-Based Undergraduate Scholarship <i>Tri-Chandra Multiple Campus</i>	2019
• Undergraduate Research Grant <i>Resource Himalayan Foundation, Nepal</i>	2023
• Top Rank in Major Botany <i>Ashok Kumar Smriti Samaj</i>	2022
• Best Presenter Award <i>Thesis Presentation and Defense, Department of Botany</i>	2023

TRAININGS AND CERTIFICATES

• Geographic Information System (GIS) and Remote Sensing	Feb 2022
• Scientific Article Writing, Publication, and Data Analysis Basics	Aug 2023
• Soil Laboratory Analysis (International Soil Day)	Dec 2022
• Assessing Satellite Data for Analysis Using ArcGIS Pro	March 2023
• Spreadsheets for Data Analysis and Visualization	April 2024
• R for Data Science	March 2024

EDUCATIONAL WEBINARS

• Improvement of Research Skills	August 2023
• Climatic Resilience and Environmental Sustainability	January 2024
• Environmental Awareness and Application	July 2024
• Environmental Impact Assessment (EIA)	July 2024
• Soil and Nutrient Management	June 2024
• Foundation of Educational Research	February 2024

VOLUNTEER EXPERIENCE

• Environmental Education <i>Teach For Nepal (TFN)</i> <ul style="list-style-type: none">◦ Conducted sessions for local school students in rural areas of Kavre.◦ Educated students about plant diversity, ecosystem restoration, and sustainable environmental practices.	March 2020
• Climate Change Awareness Campaign <i>WWF Nepal</i> <ul style="list-style-type: none">◦ Collaborated with WWF Nepal to organize awareness drives on climate resilience.◦ Focused on community-based adaptation strategies, especially in rural areas.	August 2022
• Sustainable Urban Gardening Initiatives <i>Love Green Nepal</i> <ul style="list-style-type: none">◦ Volunteered to implement urban gardening projects in Kathmandu.◦ Planted native species to improve air quality and enhance urban biodiversity.	April 2023

PROFESSIONAL AFFILIATIONS

• The Leo Club of Kathmandu Miracle	2021-2022
• Nepal Red Cross Society (NRCS)	2019-2021
• Amnesty International	2022-2023
• Green Love Nepal	2023-Present

CONFERENCE PRESENTATION

• First National Graduate Conference 2023 National Agriculture and Forestry Conference	25-27 November 2023, Rampur, Chitwan
• Role: Oral Presenter	
• Project Title: “Ecological Insights into a Sub-Tropical Mixed Community Forest: Tree Diversity, Regeneration, and Carbon Sequestration in Nuwakot, Central Nepal”	

ADDITIONAL INFORMATION

Languages: English (Fluent), Nepali (Native)
Interests: Reading, Adventurous Activities, Sports, Playing Guitar, Photography, Blogging

REFERENCES

1. **Dr. Krishna Prasad Sharma**
Assistant Professor of Botany
Tri-Chandra Multiple Campus
Email: botanist.krishna@gmail.com
Phone: +9779849005956
Relationship: Project Supervisor, Co-author, Internship Supervisor
2. **Dr. Bindu Pokhrel**
Associate Professor of Botany
Head of Botany Department
Tri-Chandra Multiple Campus
Email: bindupokharel.bp@gmail.com
Phone: +9779841490094
Relationship: Academic Advisor, Research Mentor for Ecological Projects
3. **Pramod Sen Oli**
Assistant Professor of Botany
Tri-Chandra Multiple Campus
Email: psenoli17@gmail.com
Phone: +9779841044181
Relationship: Course Instructor, Lab Co-ordinator, Seminar Leader