


SUSHANK POKHREL

Pyuthan, Nepal

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GIS — REMOTE SENSING — ECOLOGY — ECOLOGICAL MODELING — BIOMETRICS



WORK EXPERIENCE

- May 21, 2024 – Jun 21, 2024 **Enumerator for Climate Migration Project** (*SouthAsia Institute of Advanced Studies*)
Lamjung, Nepal
 - Field Enumeration (Social Survey)
- Feb, 2024 – Apr, 2024 **Research Assistant** (*Society for Conservation Biology (SCB)-Nepal*)
Kathmandu, Nepal
 - Learnt Bayesian Modeling.



EDUCATION

- 2018 – 2023 **Bachelor of Science in Forestry** (*Tribhuvan University, Institute of Forestry (IOF)*)
79.11% | Distinction Division
Thesis: *Contribution of Ecotourism in Local Livelihood and Role of People in Protected Area Management in Pre COVID-19, During COVID-19 and Post COVID-19 Phase.*



RESEARCH PROJECTS

- Ongoing **Species Distribution Modeling of Seven Different Bamboo Species**
Nepal
 - Performed ensemble modeling by using machine learning and statistical models in R.
- Ongoing **Impact of Linear Infrastructure in Biodiversity**
Nepal
 - Data is being collected.
- Ongoing **Land Cover and Land Use Change Detection in Protected Areas**
Nepal
 - The manuscript is under preparation



RESEARCH EXPERIENCE

LEAD RESEARCHER

- Dec, 2023– April, 2024 **Deforestation Modeling Using Machine Learning**
Dang and Kapilvastu, Nepal
 - Modeling by using Random Forest Model.

ASSISTANT RESEARCHER

- Feb, 2024 – May, 2024 **COVID-19 Impacts on Forest and Biodiversity Conservation in Nepal**
Nepal
 - Data analysis by Bayesian Model using "brms" package in R.
- Apr, 2023 – Jun, 2023 **Carbon Stock Comparison between Broadleaved and Coniferous Forest**
Surkhet, Nepal
 - Carbon Stock compared by field-based inventories.
- May, 2023 **Impact of Single Occurrence Forest Fire on Tree Regeneration and Diversity**
Surkhet, Nepal
 - Burnt area mapped using Google Earth Engine and field data collected afterwards.



SKILLS

ArcGIS | QGIS | Google Earth Engine | MS Office
R | Python | Java
Frequentist Analysis | Bayesian Modeling



LANGUAGE

Nepali: Native
English: Proficient
(IELTS Band Score: 7.5)



TRAININGS AND WORKSHOPS

Sep 20-22, 2024 **TRAINER - RStudio**
Nepal

- Delivered a six-hour training session to foresters, focusing on data wrangling, raster and shapefile analysis, statistical tests, and data visualization.



PUBLICATIONS

- 2023 **Diversity and Distribution of 100 Plant Species of a Community Managed Forest from the Mid- Hills of Nepal: A Phytosociological Approach**
Pokhrel, S.
Forestry: Journal of Institute of Forestry, 20(1), 79-94. doi: [10.3126/forestry.v20i1.64339](https://doi.org/10.3126/forestry.v20i1.64339)
- In reviewing **Documenting 100 Medicinal Plants Used by the Tharu Community from the Terai of Nepal: Ethnomedicinal Practices, Ayurvedic Uses and Phytochemical Characteristics**
Tharu, Y., Pokhrel, S., Ojha, P.
Banako Janakari
- In reviewing **How Do Plant Communities Interact in an Urban Forest of Nepal Terai? An analysis of Phytosociology, Population Dynamics, and Seasonal Variation.**
Pokhrel, S., Oli, K., Regmi, S.
Banako Janakari



GRANTS AND SCHOLARSHIPS

- Feb 2, 2023 **Study Grant for Students (*Integrated Landscape Management to Secure Nepal's Protected Areas and Critical Corridors (ILaM) Project*)**
 - Funded by WWF-GEF Agency to develop the thesis report for BS in Forestry.
- Oct 13, 2018 **Full Scholarship for Studying BS in Forestry (*Institute of Forestry, Hetauda Campus*)**
 - Merit based scholarship after a competitive entrance examination.



POSTER PRESENTATION AND CONFERENCE

- March 4-5, 2024 **Human Wildlife Conflict: How do Communities Respond to the Crisis (POSTER)**
(*International conference on Revitalizing Community Forestry in the Era of Socio-Environmental Crisis*)
Kathmandu, Nepal
- June 27-30, 2024 **National Conservation Forum (CONFERENCE)**
(Slogan: Restoring ecosystems through Nature Based Solutions)
Kathmandu, Nepal



DRIVING LICENSE

Category A (Motorcycle); **Category B** (Car, Jeep – Manual Transmission)



REFERENCES

Pradeep Baral
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