



Amul Kumar Acharya

RESEARCH/REMOTE SENSING OFFICER

Kathmandu, Nepal

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I have been working as Research/Remote Sensing Officer for ten years at Forest Reserch and Training Centre, Nepal. I have a deep driven passion for application of Remote sensing and GIS techniques in Forestry sector.

Employment

Research/Remote Sensing Officer

FOREST RESEARCH AND TRAINING CENTRE

Babarmahal, Kathmadu

July 2013 -> Present

- Design and Plan the research activities of the Department
- Develop research protocols and conduct forest research
- Work as Crew Leader of forest inventory, validate and analyse the inventory data
- Make and update National Land Cover Monitoring System of Nepal
- Prepapre Activity data (Forest Degradation and Deforestation) and analyse the Emission data for REDD plus program
- Facilitate on training program for the Forestry Professionals
- Supervise the Bachelors and Masters students of Forestry for their project work

Ranger

DISTRICT FOREST OFFICER (DEPARTMENT OF FOREST)

Makawanpur, Nepal

November 2010 -> July 2013

- Conservation and Management of Forest Resources
- Assist on preparation and revision of Forest Management Plan of Community Forests and Leasehold Forests
- Facilitate on trainings and workshops related to Forest Management, Non Timber Forest Products (NTFPs), Climate Change and Gender issues in Community Forest User Groups and Leasehold Forest User Groups
- Assist on Nursery establishment, seedling production & plantations
- Support District Forest Officer for planning and monitoring of development activities conducted by Range post staffs

Consultant Ranger

FEDERATION OF COMMUNITY FORESTRY USERS, NEPAL (FECOFUN)

Makawanpur, Nepal

January 2002 -> July 2005

- Assist on Forest user group formation, and Identify and empower women and disadvantage groups in Community Forest User Groups
- Assist on preparation and revision of Operation Plan of Community Forest
- Facilitation on training and workshops related to Community Forestry

Education

M.Sc. in Forest Sciences and Forest Ecology

GEORGE AUGUST UNIVERSITY

Goettingen, Germany

2017 -> 2019

Bachelors' Degree in Forestry

TRIBHUWAN UNIVERSITY

Hetauda, Nepal

2005 -> 2009

Technical Certificate in Forestry

TRIBHUWAN UNIVERSITY

Hetauda, Nepal

1999 -> 2001

Skills

Programming Languages

R, PYTHON, JAVASCRIPT

Markup Languages

RMARKDOWN, MARKDOWN

Text Editors

RSTUDIO, JUPYTER LAB, JUPYTER NOTEBOOK, GOOGLE COLAB, VISUAL STUDIO CODE

Remote Sensing/GIS

QGIS, GOOGLE EARTH ENGINE, SNAP, CLOUDCOMPARE, FUSION, LASTOOLS, ARCGIS, ARCGIS PRO, ERDAS, ECOGNITION, GEOMATICA

Others

MS OFFICE(EXCEL, OUTLOOK, POWERBI, POWERPOINT,WORD),SPSS,ZOTERO ETC.

SCHOLARSHIPS/AWARDS

DAAD

DAAD SCHOLARSHIP FOR MASTER'S DEGREE

George August University, Germany

2017

Government of Nepal

SCHOLARSHIP FOR BSC FORESTRY

Tribhuwan University, Nepal

2005

Trainings

Statistical Analysis and Forest Mapping using Python

FOREST RESEARCH AND TRAINING CENTRE

Kathmandu, Nepal

26/09/2023-5/10/2023

Data Analysis With Python Programing Language

FOREST RESEARCH AND TRAINING CENTRE

Kathmandu, Nepal

14/08/2023-21/08/2023

Improving forest carbon estimation and degradation monitoring in Nepal

USAID,NASA,ICIMOD

Chitwan, Nepal

23/07/2022-27/07/2022

Forest carbon stock measurement using Earth Observation data

USAID,NASA,ICIMOD

Kathmandu, Nepal

10/10/2022-11/11/2022

Development of National Land Cover Monitoring System for Nepal

USAID,NASA,ICIMOD

Lalitpur, Nepal

22/08/2022-26/08/2022

Training on Unbaiased Area Estimation and Uncertainty Estimation for Forest Degradation in Nepal

USAID,SILVACARBON

Pokhara, Nepal

23/05/2022-27/05/22

Training on Mapping Forest Degradation

SILVACARBON,ICIMOD

Chitawan, Nepal

25/11/2019-29/11/2019

Implementing the Global Land Analysis and Discovery(GLAD) System for forest cover change mapping

USAID,SILVACARBON GLOBAL LAND ANALYSIS & DISCOVERY

Kathmandu, Nepal

24/04/2017-28/04/2017

Introductory Training on LIDAR Data Processing

USAID AND US FOREST SERVICE-SILVACARBON

Kathmandu, Nepal

18/07/2016-20/07/2016

Advance Training on Statistical Software (R-Package) Handling

FOREST RESEARCH AND TRAINING CENTRE(FORMERLY DEPARTMENT OF FOREST RESEARCH AND SURVEY)

Kathmandu, Nepal

08/02/2016-12/02/2016

Statistical Software (R-Package) Handling Basic Training

FOREST RESEARCH AND TRAINING CENTRE(FORMERLY DEPARTMENT OF FOREST RESEARCH AND SURVEY)

Kathmandu, Nepal

01/11/2015-05/11/2015

Technical training on Deforestation and Forest Degradation Mapping and Monitoring using Multi-scale Geospatial methods in the context of REDD+ Initiatives

INTERNATIONAL CENTRE FOR INTEGRATED MOUNTAIN DEVELOPMENT (ICIMOD)

Lalitpur, Nepal

04/08/2014-08/08/2014

Statistical Package for Social Science (SPSS)

MEMORIAL CENTRE OF EXCELLENCE (MEMCoE)

Institute of Forestry,Hetauda (Nepal)

28/07/2009-30/07/2009

Publications

1. Acharya, A. K., Chaudhary, A. K., & Khanal, S. (2016). Identification of land reclamation area and potential plantation area on Bagmati river-basin in the Terai region of Nepal. *Banko Janakari*, 26(1), 53-59. <https://doi.org/10.3126/banko.v26i1.15502>
2. Ayer, S., Timilsina, S., Aryal, A., Acharya, A. K., Neupane, A., & Bhatta, K. P. (2023). Bamboo forests in Nepal: Status, distribution, research trends and contribution to local livelihoods. *Advances in Bamboo Science*, 4, 100027. <https://doi.org/10.1016/j.bamboo.2023.100027>
3. Chaudhary, A. K., Acharya, A. K., & Khanal, S. (2016). Forest type mapping using object-based classification method in Kapilvastu district, Nepal. *Banko Janakari*, 26(1), 38-44. <https://doi.org/10.3126/banko.v26i1.15500>

4. Bhatta, K. P., Aryal, A., Baral, H., Khanal, S., Acharya, A. K., Phomphakdy, C., & Dorji, R. (2021). Forest Structure and Composition under Contrasting Precipitation Regimes in the High Mountains, Western Nepal. *Sustainability*, 13(13), 7510. <https://doi.org/10.3390/su13137510>
5. Mahatara, D., Acharya, A., Dhakal, B., Sharma, D., Ulak, S., & Paudel, P. (2021). Maxent modelling for habitat suitability of vulnerable tree *Dalbergia latifolia* in Nepal. *Silva Fennica*, 55(4). <https://doi.org/10.14214/sf.10441>
6. Chaudhary, R. K., Puri, L., Acharya, A. K., & Aryal, R. (2023). Wetland Mapping and Monitoring with Sentinel-1 and Sentinel-2 Data on the Google Earth Engine. *Journal of Forest and Natural Resource Management*, 3(1), 1–21. <https://doi.org/10.3126/jfnrm.v3i1.60107>

Project

- Assessment of Sustainable Forest Management of Community Forest (A case study of a Sundar Community Forest of Makawanpur District) submitted in partial fulfillment for the award of the degree of Bachelor of Science in Forestry to Tribhuvan University in 2009.
- 3D landscape metrics along the urban-rural gradient in the Bengaluru, India submitted in George August University in 2019 (Master Thesis).

Conference/Workshops

- Participation on ART/TREES Registration Document (TRD) Write-shop held in Thailand, 01-05 August 2023.
- Participation on South-South Exchange on Monitoring and Estimating Emissions from Forest Degradation from 3 to 5 May 2023 at FAO Headquarters, Rome, Italy (Presenter).
- South-South Knowledge Exchange on Measurement, Monitoring, Reporting and Verification systems held in Mozambique, 12-17 December 2022 (Presenter).
- Participation on Forth GFOI Regional Workshop on Biomass Mapping held in Bogor, Indonesia, 05-09 October 2015.
- Participation on “How is Our Work on Participatory Forest Monitoring informing National Forest Monitoring Systems?” Regional. Knowledge Exchange Event on Participatory Forest Monitoring held in Lam Dong, Vietnam, 18-20 November 2014 (Participant).
- Participation on Second GFOI Forest Monitoring Workshop - ” SE Asia Technical Initiative” held in Kathmandu, Nepal, 23-28 June, 2014 (Participant)

Networks and Memberships

- Life Member of Nepal Foresters’ Association, Nepal
- Life Member of Makawanpur Forester’s Society

Languages

- Nepali- Mother Tongue
- English- Proficient user
- Deutsch- Independent user

References

Prof. Dr. Christoph Kleinn

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HEAD OF DEPARTMENT; FOREST INVENTORY AND REMOTE SENSING, FACULTY OF FOREST SCIENCES AND FOREST ECOLOGY,
GEORG-AUGUST-UNIVERSITY, GOETTINGEN

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SECRETARY; MINISTRY OF FORESTS AND ENVIRONMENT, NEPAL

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JOINT-SECRETARY; MINISTRY OF FORESTS AND ENVIRONMENT, NEPAL