Amul Kumar **Acharya**

RESEARCH/REMOTE SENSING OFFICER

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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
Babarmahal,Kathmadu

FOREST RESEARCH AND TRAINING CENTRE
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
Makawanpur,Nepal

DISTRICT FOREST OFFICER (DEPARTMENT OF FOREST)
November 2010 –> July 2013

- Conservation and Management of Forest Resources
- Assist on preparation and revision of Forest Management Plan ofCommunity 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
Makawanpur,Nepal

FEDERATION OF COMMUNITY FORESTRY USERS, NEPAL(FECOFUN)
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
Goettingen,Germany

GEORGE AUGUST UNIVERSITY
2017 –> 2019

Bachelors' Degree in Forestry
Hetauda, Nepal

TRIBHUWAN UNIVERSITY
2005 –> 2009

Technical Certificate in Forestry
Hetauda, Nepal

TRIBHUWAN UNIVERSITY
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   *George August University, Germany*

DAAD scholarship for master's degree   *2017*

Government of Nepal   *Tribhuwan University, Nepal*

Scholarship for BSc Forestry   *2005*

Trainings

Statistical Analysis and Forest Mapping using Python   *Kathmandu,Nepal*

Forest Research and Training Centre   *26/09/2023-5/10/2023*

Data Analysis With Python Programing Language   *Kathmandu,Nepal*

Forest Research and Training Centre   *14/08/2023-21/08/2023*

Improving forest carbon estimation and degradation monitoring in Nepal   *Chitwan, Nepal*

USAID,NASA,ICIMOD   *23/07/2022-27/07/2022*

Forest carbon stock measurement using Earth Observation data   *Kathmandu, Nepal*

USAID,NASA,ICIMOD   *10/10/2022-11/11/2022*

Development of National Land Cover Monitoring System for Nepal   *Lalitpur, Nepal*

USAID,NASA,ICIMOD   *22/08/2022-26/08/2022*

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

USAID,SilvaCarbon   *23/05/2022-27/05/22*

Training on Mapping Forest Degradation   *Chitawan,Nepal*

SilvaCarbon,ICIMOD   *25/11/2019-29/11/2019*

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

USAID,SilvaCarbon Global Land Analysis & Discovery   *24/04/2017-28/04/2017*

Introductory Training on LIDAR Data Processing   *Kathmandu, Nepal*

USAID and US Forest Service-SilvaCarbon   *18/07/2016–20/07/2016*

Advance Training on Statistical Software (R-Package) Handling   *Kathmandu, Nepal*

Forest Research and Training Centre(Formerly Department of Forest Research and Survey)   *08/02/2016–12/02/2016*

Statistical Software (R-Package) Handling Basic Training   *Kathmandu, Nepal*

Forest Research and Training Centre(Formerly Department of Forest Research and Survey)   *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   *Lalitpur,Nepal*

International Centre for Integrated Mountain Development (ICIMOD)   *04/08/2014–08/08/2014*

Statistical Package for Social Science (SPSS)   *Institute of Forestry,Hetauda (Nepal)*

Memorial Centre of Excellence (MemCoE)   *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 as resource Person on Training workshop "Earth observation for improving forest carbon estimation and degradation monitoring in Bangladesh",29 April-3 May 2024.
- 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 inLam 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   *CKleinn@gwdg.de; +49[0] 39 23473*

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GEORG-AUGUST-UNIVERSITY, GOETTINGEN

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