



# 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. I have prepared this CV using Rmarkdown.*

## Employment

### Remote Sensing/Research Officer

Babarmahal, Kathmadu

FOREST RESEARCH AND TRAINING CENTRE

July 2013 -> Present

- Develop research protocols and conduct forest research
- Conduct forest inventory and data analysis
- Make and update National Land Cover Monitoring System of Nepal
- prepare Activity data (Forest Degradation and Deforestation) for REDD plus program using Remote Sensing and GIS techniques
- Facilitate on training program for the Forestry Professional
- 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 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

Makawanpur, Nepal

FEDERATION OF COMMUNITY FORESTRY USERS, NEPAL (FECOFUN)

January 2002 -> July 2005

- Assist on Forest user group formation
- Assist on preparation and revision of Operation Plan of Community Forest
- Identify and empower women and disadvantage groups
- 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 NOTEBOOK, GOOGLE COLAB, VISUAL STUDIO CODE

### Remote Sensing/GIS

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

## 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

### 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

### Data Analysis and Forest Mapping

FOREST RESEARCH AND TRAINING CENTRE

Kathmandu,Nepal

7/03/2021-16/03/2021

### Training on Mapping Forest Degradation

SILVACARBON,ICIMOD

Chitawan,Nepal

25/11/2019-29/11/2019

### 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

### Training for Trainer (ToT) on Forest Fire Management

MINISTRY OF FORESTS AND SOIL CONSERVATION AND U.S. DEPARTMENT OF STATE AND U.S. FOREST SERVICE.

Hetauda, Nepal

05/12/2010-09/12/2010

### 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>

## 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
- Hindi- Proficient user
- Deutsch- Independent user

## References

### Prof. Dr. Christoph Kleinn

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GEORG-AUGUST-UNIVERSITY, GOETTINGEN

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