

Mr. Binit Timalisina

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Graduate of M.Sc. Environmental Science with strong enthusiasm for wetland ecology, spatial analysis, and biodiversity conservation (birds, mammals, butterflies). Extensive fieldwork in Himalayas of Nepal (Chure region, Gokyo, Mai Pokhari, Koshi Tappu, Upper Mustang, Kavre, etc.) covering wetland surveys, wildlife assessments and environmental data collection with remote work in GIS and Remote Sensing applications for analyzing highland lake morphometry, bathymetry, LULC dynamics and watershed processes. Recently, actively working in microplastic assessment in water, sediments, fish, algae, and birds as well. Active in limnological assessments.

Education

2021- 2024 Master's degree in environmental science, Central Department of Environmental Science, Tribhuvan University

Coursework: *Water Resource Management, Ecology, Environmental Management, Climate Change, Ecological Restoration, Freshwater Environment, GIS, Environmental Modelling, Statistical Language R*

Thesis: *Assessment of Microplastic in Wetland and Wetland-dependent Avifauna in Koshi Tappu, a Ramsar Site of Eastern Nepal*

2016 -2020 Bachelor's degree in environmental science, Tri-Chandra Multiple Campus, Tribhuvan University

2014- 2016 +2 Science, National Integrated College, Higher Secondary Education Board (HSEB)

2014 School Leaving Certificate (SLC), Zenith English Secondary School, Government of Nepal

Key Technical Skills

- GIS & Remote Sensing: ArcGIS, QGIS, Google Earth Engine, and Google Earth Pro
 - Spatial Analysis: Bathymetric mapping, morphometric analysis, LULC classification, NDVI analysis, DEM-based watershed delineation, buffer, interpolation and proximity analysis
 - Statistical & Modelling Tools: RStudio, SPSS, OriginPro
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- Field & Analytical Tools: GPS surveying, sonar-based depth profiling, WQI computation, biodiversity surveys
 - Documentation & Writing: Report and Scientific article preparation in English and Nepali
 - MS Office: Word, Excel, PowerPoint
 - Languages: Fluent on both written and spoken Nepali, English and Hindi
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Academic Research & Projects

1. *Abundance and Distribution of Microplastic in Kulekhani Reservoir, Nepal: An Investigation of Water and Fish Samples* – supported by RCDC, Rector's Office, Tribhuvan University under Emerging Faculty Research Grant (EFRG) through National Priority Area Research Project (2026)
 - Methodological Design
 - Assessment of microplastics in different species of fish
 - Data analysis and reporting
 2. *Assessment of the Current Status and Multipurpose Feasibility of Ponds / Wetlands in the Chure-Bhabar Region* – supported by President Chure-Terai Madhesh Conservation Development Board (2026)
 - Avifaunal diversity, water quality, status and threat assessment
 - Data analysis, report writing and drafting manuscript
 3. *Assessment of Biodiversity and Ecosystem Services of Dhap Dam Wetland, Kathmandu* - NAST-funded project (2025)
 - Wetland ecology and water quality assessment
 4. *Wetlands of Chure (Sivalik Hills): An Inventory and Assessment of Conservation Status and Values*- Funded by MoEST, GoN (2025)
 - Inventory mapping of Wetlands in Chure
 - Wetland status and threats, ecological status and water quality assessment
 5. *Assessment of wetland health of three Ramsar listed wetlands of Koshi Province Samples* – supported by RCDC, Rector's Office, Tribhuvan University under Emerging Research Grant (EFRG) through National Priority Area Research Project (2025, Koshi Tappu, Mai Pokhari and Gokyo)
 - Field and laboratory work along with data analysis of physico-chemical parameters of water, sediments and microplastics in wetlands
 - Manuscript and report writing
 - Preparing wetland health report card of all three wetlands
 6. *Community and vegetation Survey on Spring Source Availability and Accessibility in Dapcha Watershed, Kavrepalanchowk* (2024, CDHM, TU-ICIMOD)
 - Conducted watershed delineation, proximity analysis and spatial mapping of spring sources
 - Community survey on status of springs and impact due to natural and anthropogenic causes
 - Vegetation and Bird Survey
 7. *Water Quality Analysis of Rivers of Kathmandu Metropolitan City* – Funded by Environment Management Department, KMC (2024, Report submitted)
 8. *Assessment on Avi-faunal Diversity Based on Disturbance of Cable Car in Chandragiri Hill, Kathmandu* (2022)
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Publications

1. Marabhatta, S., **Timalsina, B.**, Pokharel, N., Upadhyaya, M., Adhikari, P., Dhakal, M., ... & Aryal, D. (2026). *Vegetation Patterns in Relation to Topography and Water Availability in Dapcha Watershed of Kavrepalanchowk, Nepal*. *Journal of Institute of Science and Technology*, 31(1), 315-330.
2. **Timalsina, B.**, Ghimire, N. P., and Uprety, Y. 2026. *First Evidence of Microplastic Contamination in High-Altitude Ground Dwelling Birds: Connecting Local Findings to Global Biodiversity and Sustainability Goals*. *Journal of Ecology and Environment*. 50 (14),1-12.
3. Tamang, S., **Timalsina, B.**, Uprety, Y., Rai, S.K., Tachamo-Shah, R.D., Shah, D.N., and Ghimire, N.P. 2026 *Algal Community Response to Water Quality Gradients Across the Wetlands in the Koshi Tappu Ramsar Site, Nepal*. *Applied Phycology*. 7(1), 2664585.
4. Greenalaya Nepal and TinyLife Finders. 2026. *Butterfly images of Kathmandu Valley*. Kathmandu, Nepal (Contributor: **Binit Timalsina**)
5. Karki, H.B., **Timalsina, B.**, and Thapa, S. 2026. *Variation in Soil Characteristics on Forest and Agricultural Land Uses in Kavrepalanchowk District of Central Nepal*. *Discover Geoscience*. 4, 155.
6. Ghimire, N. P., **Timalsina, B.**, and Uprety, Y. 2026. *Linking microplastic pollution and nutrient dynamics in the sediments of the Gokyo Lake Cluster, a high-altitude Ramsar site of Nepal*. *Arctic, Antarctic, and Alpine Research*, 58(1), 2641281.
7. Bhatt, A., **Timalsina, B.**, and Ghimire, N. P. 2026. *Ethnobotanical knowledge and plant use patterns among the major ethnic communities of Mahankal Rural Municipality, Lalitpur District, Central Nepal*. *Ethnobotany Research and Applications*, 33, 1–20.
8. Uprety, Y., Ghimire, N.P., **Timalsina, B.**, Tamang, S. and Pokharel, K.R., 2025. *Assessing Physicochemical and Biological Indicators and Their Interactions in High-Altitude Lakes of Gokyo Valley, Nepal*. *Environmental Advances*, p.100675.
9. **Timalsina, B.**, Maharjan, K.K., Mahat, A., Wagle, P.C., Regmi, P.K. and Karki, H.B., 2025. *Potability of Bottled and Jar Water in Kathmandu Valley: A Comparative Analysis*. *Journal of Environment Sciences*, 11, pp.45-52.
10. Tiwari, S., **Timalsina, B.**, Sitaula, S., Awasthi, M.P., Mahat, A. and Pant, R.R., 2023. *Evaluating the major sources of surface water quality in Pokhara Metropolitan City, Gandaki Province, Nepal*. *Himalayan Biodiversity*, 9, pp.29-38.

Trainings and Certification

- Mentee on **Community Conservation Workshop** by Community Conservation Inc. (2025)
- 6 days training of 8th School in **Aquatic Wildlife Biology and Conservation** organized by TSA Foundation and Pilibhit Tiger Reserve, India (2025)
- 19 Days **Wildlife Research Technique Training (WRTT)** conducted by Friends of Nature (FON) Nepal in Rhangbhang, Syangja, Nepal. (2022)
- **EIA/IEE Training** - Environment Protection and Study Center (ENPROSC, 2021)
- **GIS and Spatial Analysis** - WePro Technology (2020)

Honors and Awards

- Instrumental Grant on Understanding Avifaunal Composition along Elevational Gradient under different environmental variables in the Mahabharat Range of Central Nepal by Idea Wild (Fort Collins, Colorado, US), 2025
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- Awarded by Best Performance at 8th School in Aquatic Wildlife Biology and Conservation, Pilibhit Tiger Reserve, India, 2025
 - Awarded Prem Conservation Grant by Wildlife Conservation Nepal (WCN) for Master's thesis for the academic and scientific research of young scientists from Nepal, 2024
 - Awarded grant by Department of Environment, MoFE, Government of Nepal during Master's Degree in 2024
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Professional Experience

1. **Research Associate**- Central Department of Botany, Tribhuvan University (2026 – Present)
 - Developing methodology, field visits, data collection, data management, analysis and reporting
 1. Assessment of the Current Status and Multipurpose Feasibility of Ponds / Wetlands in the Chure-Bhabar Region
 2. *Assessment of Biodiversity and Ecosystem Services of Dhap Dam Wetland, Kathmandu, Nepal*
 2. **Leader of Annual Urban Bird Count**- Survey of Urban Birds in Kathmandu (Kalanki Route) for Summer and Winter, BCN, Nepal (2024-2026)
 3. **Research Assistant**- Central Department of Botany, Tribhuvan University (2025 – 2026)
 - Supporting wetland and biodiversity projects funded by MoEST, TU Research Directorate, and NAST
 1. *Wetlands of Chure (Sivalik Hills): An Inventory and Assessment of Conservation Status and Values,*
 2. *Assessment of wetland health of three Ramsar listed wetlands of Koshi Province*
 - Spatial analysis of wetland habitats using GIS and field validation
 4. **Research Associate & Data Analyst**- Central Department of Hydrology and Meteorology, Tribhuvan University in project funded by ICIMOD (2024 – 2025)
 - Applied GIS and Remote Sensing in spring flow modelling and watershed analysis
 5. **Campaigner**- Sustainability and Environmental Studies Endeavor (SENSE, 2024)
 6. **Bird Surveyor**- Survey of Birds in Panauti Municipality, Kavre (BCN, 2024)
 7. **Environmentalist**- Water Quality Analysis of Rivers of Kathmandu Metropolitan City in support to Environment Management Department, KMC (2024)
 - Sample collection, laboratory work, data analysis and report writing of major 7 rivers
 8. **Field Assistant**- Plantation Initiative Nepal (2022)
 - Supporting seed distribution, monitoring plantation process, boundary mapping, and biodiversity assessments.
 9. **Field Volunteer**- Installation and monitoring of mobile air quality monitoring device in Clean Tempo and Electric vehicle in Kathmandu Valley (Green Ways Nepal, 2022)
 10. **GIS Analyst**- RAAS Engineering Consultancy Pvt. Ltd. (2019-2020)
 - Contributed to land use mapping, resource database creation, and spatial data management
 11. **Citizen Scientist** for ENPROSC (Croaking Monsoon: Recording frog occurrence from parts of Nepal since 2020) and S4W-Nepal (Rainfall Data of Kalanki, Kathmandu since 2021)
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12. Field Volunteer- School outreach and presentation on water scarcity problems in Sarlahi District, Nepal (Service for Peace, 2019)

Other Affiliations

- Greenalaya Nepal – Founder (2026)
 - IUCN, Species Specialist Commission (SSC) on Fireflies– Member since 2026
 - Society of Wetland Scientists (**SWS**) – Member since 2025
 - Bird Conservation Nepal (**BCN**) – General Member since 2018
 - Sustainability and Environmental Studies Endeavor (**SENSE**) – Campaigner for 2024
 - IUCN, Commission on Ecosystem Management – Member since 2024
 - Global Youth Biodiversity Network (**GYBN**) – Member since 2024
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References

Available upon request.

Declaration

I certify that all the information stated in this CV is true and complete.



2026/07/28