# Bishwa Prakash Puri

Assistant Lecturer, College of Applied Sciences-Nepal, Kathmandu, Nepal
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I am passionate about continuous learning and committed to leveraging my expertise to foster sustainable development. My extensive experience as an environmental consultant, thesis and research paper development, report writing, and documentation, has honed my skills in technical and academic writing. Furthermore, my role as an assistant lecturer in Environmental Modeling (Hydrology) at the College of Applied Sciences-Nepal has prepared me to take more challenging endeavors in the field.

## EDUCATION

**Tribhuvan University** **2024**
College of Applied Sciences-Nepal, Kathmandu, Nepal
Master of Science in Environmental Science

**Tribhuvan University** **2019**
Tri-Chandra Multiple Campus, Kathmandu, Nepal
Bachelor of Science in Environmental Science

## ACADEMIC EXPERIENCE

**College of Applied Sciences-Nepal** Kathmandu, Nepal
*Assistant Lecturer* November 2024 – Present

- Teaching Environmental Modeling to MSc 4th-semester students, focusing on hydrological modeling (HEC-HMS, HEC-RAS), climate modeling (SDSM), and geospatial analysis (GIS).
- Designing and delivering lectures, leading hands-on practical sessions, and mentoring students in applying modeling tools to environmental challenges.
- Serving as a thesis co-supervisor, guiding research projects and ensuring academic and professional excellence.

## PROFESSIONAL EXPERIENCE

**Green Globe International Pvt. Ltd.** Kathmandu, Nepal
*Environmental Officer* August 2024 – Present

- Prepare EIA, IEE, and Monitoring Reports for hydropower projects.
- Conduct fieldwork and assess environmental impacts of hydroelectric projects.
- Consultations with stakeholders.
- Preparation and presentations of reports.

**Smart Connect Global Education Pvt. Ltd.** Kathmandu, Nepal
*Business Development Manager* June 2023 – Present

- Drive growth through university partnerships, optimize operations, and expand market presence.
- Lead marketing strategies, client relations, and team management to ensure revenue growth and service excellence.

**Quest Forum** Kathmandu, Nepal
*Environmental Assistant* January 2023 – June 2023

- Assisted in environmental studuies including preparation of reports, preparation of Terms of References (TOR), faciliation of public hearing, data collection, preparation of presentations.
- Compilation of technical and financial documents for Biding.
- Assisted in field visits for environmental monitoring in various industries from different sectors such as Brick, Cement, Beverage, and Pharmaceuticals.
- Assisted in Ppreparation of Environmental Monitoring Report.
- Communicated findings and recommendations to clients, stakeholders, and regulatory bodies.

**Nepal Environmental and Scientific Services (NESS)** Kathmandu, Nepal
*MSDS Officer Intern* July 2022 – December 2022

- Prepared laboratory consumables inventory and created material safety data sheets (MSDS).

## RESEARCH AND FIELD EXPERIENCE

- Conducted geological data collection, input, and analysis in Kakani Ranipauwa Area, Nuwakot District, Nepal.
- Geological and Ecological Field Study, Malekhu – Pokhara, Nepal: Conducted geo-environmental studies on rock mass classification, slope stability, landslides, and biodiversity; created environmental geological maps and assessed fluvial deposits.
- Led community-based solid waste segregation initiatives at Sunrise English Boarding School, Sainbu, Lalitpur, Nepal, including managing solid waste and conducting field-based data collection.
- Conducted flood frequency analysis using Gumbel's Distribution Method and HEC-HMS, and developed river channel geometry for Balkhu River Basin using HEC-RAS.
- Simulated rainfall data using Statistical Downscaling Modelling (SDSM) during the Flood and Hydrological Modeling Project in Surkhet Weather Station, Nepal.
- Emission inventory from cement production in Nepal: Annual pollutant emission that generate from the Shivam and Hongshi cement industries was calculated and estimated by the help of default emission factor for different pollutant.
- Emission inventory from hospital: Conducted an emission inventory analysis of NOx, CO, and SOx from Bir Hospital and Grande Hospital, including calculations of mercury and lead emissions during clinical waste incineration.
- Water quality monitoring of ground water and irrigation water: Conducted water quality monitoring of surface and groundwater of Koplu Khola, Nuwakot, analyzing parameters such as temperature, pH, EC, TDS, TSS, heavy metals, and coliform bacteria.
- Measurement and comparison of noise level (equivalent, percentile) in residential, public and workplaces: Compared and identified the noise level within Balkhu and nearby areas.

## PUBLICATIONS

### Journal Articles

- Puri, B. P., Adhikari, T. R., et al. *Spatial and Temporal Variations of Surface Air Temperature (1962–2022) across Physiographic Regions in the Koshi Basin, Nepal.* Publishing in SOHAM.

### Thesis

- Temperature Trend Analysis Along with Paddy Production Trend and Their Impact on Paddy Cultivation in Koshi Basin, Nepal.

## SKILLS

- **Programming:** Python, R
- **Software:** ArcGIS, HEC-HMS, HEC-RAS, SDSM, LaTeX, Markdown, Git
- **Technical:** Field Surveys, EIA/IEE/BES, Report Writing, Stakeholder Consultations

## TRAINING AND CERTIFICATIONS

- Geographic Information System (GIS) Certification – 1 Month (2020)
- Chemical Management and MSDS Certification – 2 Weeks (2022)
- Environmental Impact Assessment Certification – 3 Weeks (2020)

### Language Skills

| Language | Reading | Writing | Speaking |
|----------|-----------|------------|--------------|
| Nepali | Native | Native | Native |
| English | Excellent | Excellent | Good |
| Hindi | Excellent | Beginners | Intermediate |

## REFERENCES

**Dr. Bhupendra Devkota**
*Principal, Professor, College of Applied Sciences-Nepal*
bhupendra.devkota@gmail.com
**Dr. Tirtha Raj Adhikari**
*Professor Emeritus, Tribhuvan University*
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**Surendra Dev Bhatta**
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