

Bishwa Prakash Puri

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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 (MSc.)	2024
College of Applied Sciences-Nepal, Kathmandu, Nepal Master of Science in Environmental Science	
Tribhuvan University (BSc.)	2019
Tri-Chandra Multiple Campus, Kathmandu, Nepal Bachelor of Science in Environmental Science	

ACADEMIC EXPERIENCE

College of Applied Sciences-Nepal	Kathmandu, Nepal
<i>Assistant Lecturer</i>	November 2024–January 2025
<ul style="list-style-type: none">• 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

Freelancer	Nepal
<i>Environmental Consultant, Researcher, Business Development Consultant</i>	August 2024–Present
<ul style="list-style-type: none">• Preparation of 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.• Business development and growth strategies for small businesses consultancy firms.	
Quest Forum	Kathmandu, Nepal
<i>Environmental Assistant</i>	January 2023–June 2023
<ul style="list-style-type: none">• Assisted in environmental studies including preparation of reports, preparation of Terms of References (TOR), facilitation of public hearing, data collection, preparation of presentations.• Compilation of technical and financial documents for Bidding.	

- Assisted in field visits for environmental monitoring in various industries from different sectors such as Brick, Cement, Beverage, and Pharmaceuticals.
- Assisted in Preparation 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).

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*. Published in *SOHAM*.
- Research Paper (Submitted in Journal of Environmental Science and Agricultural Research (ISSN: 3029–0724)): *Impact of Climate Variability on Agricultural Productivity and Food Security in Banke, Nepal: Insights from 1990–2020*.
- Research Paper (In Progress): *Assessing Soil Nutrient Dynamics and Their Impacts on Crop Yields: A Case Study of Janaki Rural Municipality, Banke, Nepal*.

Thesis

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

RESEARCH AND FIELD EXPERIENCE

- 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.
- 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.
- 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 NO_x, CO, and SO_x 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 Koplukhola, 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.

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
tirtha43@gmail.com

Surendra Dev Bhatta

Executive Director, Green Globe International Pvt. Ltd.
surenbtt@gmail.com