

# Bishwa Prakash Puri

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workbishwa.github.io/imBishwa/

Growing up in Nepal's Koshi Basin, I developed a deep commitment to understanding and addressing environmental challenges in Himalayan communities. My expertise spans climate data analysis, multi-hazard risk assessment, and hydrological modeling, supported by strong programming skills in Python, R, and GIS technologies. As an environmental consultant and assistant lecturer in Environmental Modeling, I combine technical proficiency with practical field experience to develop solutions for disaster risk reduction and sustainable development. My research on temperature trends and agricultural impacts in the Koshi Basin, along with my experience in environmental impact assessments, has equipped me to bridge scientific modeling with community-focused solutions.

## EDUCATION

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

## ACADEMIC EXPERIENCE

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<b>College of Applied Sciences-Nepal</b>	Kathmandu, Nepal
<i>Assistant Lecturer</i>	November 2024–January 2025
<ul style="list-style-type: none"><li>• Teaching Environmental Modeling to MSc 4th-semester students, focusing on hydrological modeling (HEC-HMS, HEC-RAS), climate modeling (SDSM), and geospatial analysis (GIS).</li><li>• Designing and delivering lectures, leading hands-on practical sessions, and mentoring students in applying modeling tools to environmental challenges.</li><li>• Serving as a thesis co-supervisor, guiding research projects and ensuring academic and professional excellence.</li></ul>	

## PROFESSIONAL EXPERIENCE

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<b>Freelancer</b>	Nepal
<i>Environmental Consultant, Researcher, Business Development Consultant</i>	August 2024–Present
<ul style="list-style-type: none"><li>• Preparation of EIA, IEE, and Monitoring Reports for hydropower projects.</li><li>• Conduct fieldwork and assess environmental impacts of hydroelectric projects.</li><li>• Consultations with stakeholders.</li><li>• Preparation and presentations of reports.</li><li>• Business development and growth strategies for small businesses consultancy firms.</li></ul>	

<b>Quest Forum</b>	Kathmandu, Nepal
<i>Environmental Assistant</i>	January 2023–June 2023

- 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**

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### **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*.
- Gautam, R., Puri, B. P., et al. *Impact of Climate Variability on Agricultural Productivity and Food Security in Banke, Nepal: Insights from 1990–2020*. Published in *OASK Publishers*.
- 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**

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- 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<sub>x</sub>, CO, and SO<sub>x</sub> 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

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- **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

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- 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

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

## REFERENCES

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### **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