

Rasila Gautam

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Personal Statement

A dedicated and highly motivated Environmental Science graduate with over five years of academic and research experience focused on climate change, hydrological modeling, and environmental sustainability. I have a strong track record in field-based research and data analysis, demonstrated through various high-altitude field studies and a Master's thesis on climate impacts in the Koshi Basin. With proven expertise in research design, fieldwork, and technical report writing, I am eager to contribute to understanding the water cycle and precipitation patterns in mountainous regions. My strengths lie in interdisciplinary collaboration, problem-solving, and innovative thinking, making me a strong candidate for a PhD position in climate science.

Education

Master of Science in Environmental Science

College of Applied Sciences, Tribhuvan University, Nepal

Graduation: 2024

Thesis: "Impact of Climatic Variables on Crop Production and the Role of Environmental Factors in Janaki Rural Municipality, Banke, Nepal"

Relevant coursework: Climate and Hydrological Modeling, GIS, Atmospheric Science

Bachelor of Science in Environmental Science

Trichandra Multiple Campus, Tribhuvan University, Nepal

Graduation: 2018

Thesis: "Assessment of Water Quality of Bagmati River by the Application of Canadian Water Quality Index along Kathmandu Valley"

Relevant coursework: Environmental Impact Assessment, Field Methods in Environmental Science

Research and Field Experience

Flood and Hydrological Modeling Project

Kathmandu, Nepal

2024

- Conducted flood frequency analysis using Gumbel's Distribution Method and HEC-HMS.
- Developed river channel geometry for Balkhu River Basin using HEC-RAS.
- Simulated rainfall data using Statistical Downscaling Modelling (SDSM).

Geological and Ecological Field Study

Malekhu – Pokhara, Nepal

2023

- Conducted geo-environmental study focusing on rock mass classification and slope stability.
- Performed biodiversity assessments and analyzed fluvial deposits.

Environmental Geological Field Study

Kakani Ranipauwa, Nuwakot District, Nepal

2022

- Assessed ambient air quality in the Kathmandu Valley.
- Performed geological data collection and interpretation.

Community-Based Solid Waste Management & Disaster Risk Management

Budhanilkantha Municipality, Kathmandu, Nepal

2023

- Led disaster risk management and solid waste management initiatives.
- Organized field-based data collection and community engagement activities.

Technical Skills

- **Programming Languages:** Python (Basic), R (Intermediate)
- **Software:** GIS, SPSS, HEC-RAS, HEC-HMS
- **Data Analysis:** Field-based research, climate and hydrological modeling
- **Remote Sensing:** Analysis of large-scale datasets and atmospheric models
- **Languages:** Nepali (native), English (fluent), Hindi (conversational)

Professional Experience

GTE Officer / Documentation Officer

PRIDE ABROAD STUDIES PVT. LTD., Kathmandu, Nepal

2020 – Present

- Assisted in visa documentation and study abroad counseling for students applying to universities in Canada, Australia, USA, and European countries.
- Managed application processes and guided applicants through research and submission phases.

Action Learner

Volunteer Service Overseas (VSO) / International Citizen Service

2018

- Facilitated disaster risk reduction training and led awareness sessions on inclusive education in schools and communities.
- Coordinated disaster preparedness programs and community outreach.

Training and Certifications

- **Geographic Information System (GIS):** 1-month certification (2020)
- **Environmental Impact Assessment (EIA):** 3-week certification (2020)
- **Community-Based Emergency Response Training:** Nepal Red Cross Society collaboration (2019)
- **Chemical Management & MSDS:** 2-week certification (2022)

Leadership and Community Involvement

Board Member / General Member

Leo Club of Kathmandu Sauharda

2021 – Present

- Led several heritage cleaning initiatives and disaster response efforts.
- Volunteered in community engagement and fundraising activities.

References

Bhupendra Devkota, PhD

Principal, College of Applied Sciences-Nepal

Email: bhupendra.devkota@gmail.com

Dr. Hari Dahal

Professor of Agriculture and Research Methodology

Email: dahaldr.hari@gmail.com

Dr. Tirtha Raj Adhikari

Professor of Meteorology and Hydrology

Email: tirtha43@gmail.com

Ms. Mala Pradhan

Project Coordinator, Volunteer Service Overseas

Contact: Available upon request