

Rasila Gautam

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I am a dedicated Environmental Science graduate with comprehensive research and fieldwork experience in environmental and agricultural sciences. I have conducted quantitative and qualitative analyses using climate, hydrological, and geospatial tools, with published and ongoing research focused on climate variability, crop productivity, water quality, and disaster risk. My academic background is complemented by strong experience in environmental assessments, data analysis, and technical reporting. I am passionate about applying my skills to address knowledge gap in environmental challenges related to agriculture, particularly in support of community farmers and stakeholder institutions.

I am beginning my ED54 Master of Education Research (STEM) program at Excelsia University College in February 2026 to advance my career goal of facilitating accessible knowledge transfer from research to actionable outcomes in Nepal.

Education

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| • MSc. Environmental Science | 2024 |
| College of Applied Sciences-Nepal, Tribhuvan University, Kathmandu, Nepal | |
| • BSc. Environmental Science | 2018 |
| Tri-Chandra Multiple Campus, Tribhuvan University, Nepal | |
| • Higher Secondary Education | 2014 |
| Adarsha Higher Secondary School, Nepalgunj, Banke, Nepal | |
| • Secondary Education | 2012 |
| Adarsha Higher Secondary School, Nepalgunj, Banke, Nepal | |

Research and Fieldwork Experience

- Research Paper (Published 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.*
- Masters' thesis: *Impact of Climatic Variables on Crop Production and the Role of Environmental Factors in Janaki Rural Municipality, Banke, Nepal.*
- Bachelor's thesis: *Assessment of Water Quality of Bagmati River by the Application of Canadian Water Quality Index along Kathmandu Valley.*
- Determined flood frequency analysis using Gumbel's Distribution Method by application of HEC-HMS.
- Determined return period and create river channel geometry of Balkhu River Basin using HEC-RAS.
- Simulated the rainfall data of Surkhet Weather Station with the application of Statistical Downscaling Modelling (SDSM).
- Studied land-use change analysis of Balkhu.
- Conducted and evaluated a community based Solid Waste Management and Disaster Risk Management at ground level- Bansbari Secondary School Budhanilkantha Municipality, Kathmandu
- Conducted a study on Disaster Risk Management of Barhabise Tatopani area of Sindhupalchok District, Nepal.
- Assessment of Processed ICE drinking water of JMC factory of Nepalgunj, Banke, Nepal.
- Assessment and Quantification POP-PBDEs (commercial pentaBDE) in Transportation sector in Nepal.
- Studied rock mass classification using rock mass rating, slope stability analysis through the stereographic projection method, and paleo-channel of the river at Malekhu, as well as prepared an environmental geological map for Siddhaleke Rural Municipality, Dhading district.
- Conducted landslide assessment of upstream side of Malekhu Khola.
- Studied methods in ecological research, including light trapping and drift net techniques, assessed biodiversity along the roadside at Sarankot, and examined succession and fluvial deposits around Harpan Khola at Pame and Bhakunde.
- Studied Solid Waste Management Practice in Pokhara Municipal Sanitary Landfill Site.
- Assessed the heavy metals emission load for major type of Vehicles in Nepal.
- Measured and compared of noise level (equivalent, percentile) in residential, public and workplaces.
- Assessed water quality of surface and tap water.

Technical Skills

- Programming Languages: R (Basic), Python (Basic), Latex
- Software: SPSS, ArcGIS, HEC-HMS, HEC-RAS, SDSM, Cropwat
- Data Analysis: Quantitative and qualitative interpretation, climate and hydrological modeling
- Office Tools: Microsoft Office, Google Suite

- Fieldwork: Soil sampling, water quality assessment, biodiversity assessment, and environmental impact assessments, public consultations
- Research Skills: Literature review, survey design, data collection, and analysis, report writing
- Communication: Excellent written and verbal communication skills in English and Nepali

Languages

- Nepali (Native)
- English (Fluent)
- Hindi (Conversational)

Leadership and Volunteering

- **Action Learner, Volunteer Service Overseas/International Citizens Service (VSO/ICS), Sanepa, Lalitpur, Nepal** (17 July 2018–2 Oct 2018)
Duty Station: Changuarayan-8, Bhaktapur, Nepal
Projects: Empowerment of communities through awareness, training, peer learning, resource utilization, and united action
 - Gender and Inclusive Governance Program
 - PRAGATI: “Promoting resilient and sustainable urban growth by augmenting Disaster Risk Management (DRM) capacity of local authorities.”
- **Member, Leo Club of Kathmandu Sauharda** (2021–Present)
- **Board Member, Leo Club of Kathmandu Sauharda** (2020–2021)
- **Board Member, Leo Club of Kathmandu Dreams** (2017–2020)
 Dedicated to advancing social and environmental causes, I have actively participated in numerous events and programs aimed at development and awareness, led initiatives focused on heritage cleaning and community engagement, volunteered as a host and Master of Ceremonies for various programs, contributed to fundraising and disaster response efforts, supported club-organized activities such as heritage cleaning and trainings, and enhanced my leadership skills through participation in the Leo Leadership Training organized by the Lion Club.

Trainings and Certifications

- Chemical Management with an Exercise on MSDS, April (14–28), 2022
- Global Climate Summit, Eco-Network, 2021
- GIS Training (11th November to 11th December, 2020)
- Environmental Impact Assessment Training (01st August – 30th August, 2020)
- Community-Based Emergency Response Training by VSO and Nepal Red-Cross Society (2019)
- Leo Leadership Training (04th November 2017) by International Association of Lions Club
- Concise Vermicomposting Training (CVT) organized by Nepal Science Foundation Trust (NSFT) (2016)
- Fund Raising “The Great Centurian” for community school (August 2016– November 2016)

Work Experience

- **Golden Group of Constructions Pvt. Ltd.** *Hybrid / Remote*
Environmental Associate **Feb 2025–Present**
 I assist in preparation of various environmental reports including EIA, IEE, BES, as well as monitoring reports. I analyze and evaluate field data, ensure compliance with environmental regulations, and support communication and public relations.
Remote, Intern **Aug 2024–Feb 2025**
 Assisted in preparing EIA, IEE, BES reports and conducted environmental monitoring for various projects.
- **Pride Abroad Studies Pvt. Ltd.** *On-site*
Student Visa Counselor and GTE Officer **Jan 2023–Present**
 Assisting clients with comprehensive documentation for visa applications to Canada, Australia, the USA, the United Kingdom, Ireland, South Korea, and other countries.
Counselor / Documentation Officer **March 2021–Dec 2020**
 Assisting clients with comprehensive documentation for visa applications to Canada, Australia, the USA, the United Kingdom, Ireland, South Korea, and other countries.
- **Volunteer Service Overseas (VSO ICS)** *Kathmandu, Nepal*
Action Learner (Intern) **Jul 2018–Oct 2018**
 Engaged in awareness raising, training sessions, peer education, infrastructure development, and community mobilization under gender and governance-focused development programs.

References

Academic References

- Dr. Bhupendra Devkota, Principal, College of Applied Sciences-Nepal
Email: bhupendra.devkota@gmail.com
- Dr. Hari Dahal, Professor, College of Applied Sciences-Nepal
Email: dahaldr.hari@gmail.com
- Dr. Tirtha Raj Adhikari, Professor, College of Applied Sciences-Nepal
Email: tirtha43@gmail.com

Work References

- Mr. Nabin Dhakal, Managing Director, Golden Group of Constructions Pvt. Ltd.
Email: cons.goldengroup@gmail.com
- Mr. Krishna Dulal, Managing Director, Pride Abroad Studies Pvt. Ltd.
Email: krishna@pride.edu.np
- Ms. Mala Pradhan, Project Coordinator of Placement Changunarayan (2018/2019), Volunteer Service Overseas
Email: mala.pradhan92@gmail.com

Declaration: I hereby declare that the information provided above is true and correct to the best of my knowledge.
Rasila Gautam