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Current Position

Assistant Professor. Department of Environmental Science,
Patan Multiple Campus, Tribhuvan University, Nepal

Academic Qualifications

Level	Institution	Title of the Thesis
Ph. D. 2022	Central Department of Environmental Science, Tribhuvan University, Nepal	Water Availability and River Health in Marshyangdi Watershed, Nepal.
M.Sc. 2004	Central Department of Environmental Science, Tribhuvan University, Nepal	Environmental Hazards and Management of Tokha Area.

Work Experience

- Program Coordinator for Faculty Capacity Training program supported by UGC on May 2025.
- M.Sc. Program Coordinator, Dept. of Environmental Science, Patan Multiple Campus, Lalitpur, January 1, 2023, to December 1, 2023.
- Head of the Department (HOD), Dept. of Environmental Science, Patan Multiple Campus, Lalitpur, 2014-2017
- Lecturer Patan Multiple Campus, Dept. of Environmental Science, Patan Multiple Campus, Lalitpur since 2007
- Environmental Population and Health: Galaxy Public School, Kathmandu, 2007-2012
- Environment Management: A-level, Rato Bangla School, Lalitpur, 2006
- Environmental Education: Welhams College, 10+2, Lalitpur, 2006
- Environment Population and Health: Arunodaya English School, Kathmandu. 2002-2003

Training

- Research Capacity Enhancement Program, TU, Kirtipur, April 2020.
- Summer School: Gender, Disasters and Climate Risks at Lund University, Lund, Sweden, September 2022.
- OHTA W201 Basic Principles Occupational Hygiene Course, January 2023.
- Lahar Training organized by HUC and University of Bristol, UK, June 2021.
- Bringing meaning to statistical practice in climate science using R, ICIMOD, August 2021

- Summer School: Himalayan University Consortium fellow 2019, Nepal.
- R-Statistical Software Training under the framework of the Technology Transfer and Training of the Third National Communication Project organized by CDES, TU, 2018.
- Workshop on Scientific Writing organized by RECAST, Tribhuvan University, Kathmandu, Nepal, 2018.
- Workshop on Aquatic Biodiversity Monitoring and River Quality Assessment Techniques, CDES-TU, 2016.
- Training On Environmental Survey and GIS from Central Department of Environmental Science, July 2014.
- Youth for Smart Solutions, Conference on Climate Change, Nepal Prakriti Pathsala, 2014.
- Training on Contemporary Environmental Issues and Methods in Nepal, CDES-TU. September 2014
- Professional Training on Disaster Risk Management, TU-CDES & UNDP Cooperation, June 2013.
- Training on “Environmental Safety and Risk Analysis: Theory and Application”, Central Department of Environmental Science, July 2012.

Publications

- Adhikari, N., **Singh, R.**, Chauhan, R., (2025). Journal of Environment Sciences (2025). Status of Sound Pollution and its Impact on Human Health in Dhading Besi. *Journal of Environment Sciences*, XI, 34-44pp/. <https://doi.org/10.3126/jes.v11i1.80596>
- **Singh, R.**, Pradhananga, S., Suman, K., Shrestha, M., & Prasad, R., (2024). Hydro-geochemical conditions under projected climate change scenarios for the Marshyangdi River, Nepal. *Theoretical and Applied Climatology*,155, 5375-5387. <https://doi.org/10.1007/s00704-024-04890-1>
- **Singh, R.**, Kayastha, S. P., Limbu, A. K., & Joshi, A., (2024). Assessment of Noise Pollution in Hospitals along the Major Highways of Kathmandu and Lalitpur, Nepal. *Nepal Journal of Environmental Science*,12(2),71-79. <https://doi.org/10.3126/njes.v12i2.73677>
- **Singh, R.**, Pandey V.P., Kayastha, S.P., (2022). Climate Change and River Health of the Marshyangdi Watershed, Nepal: An Assessment using Integrated Approach. *Environmental Research*, 215,12 pp. <https://doi.org/10.1016/j.envres.2022.114104>
- **Singh, R.**, Pant, D.R & Baniya, R., (2022). Traffic noise pollution assessment along the Ring Road of Kathmandu Valley, Nepal. *Current Science*, 123(5) DOI: 10.18520/cs/v123/i5/677-686

- **Singh, R.,** Pandey, V.P. & Kayastha, S.P., (2021). Hydro-climatic extremes in the Himalayan watersheds: a case of the Marshyangdi Watershed, Nepal. *Theoretical and Applied Climatology*. 143, 131–158.
<https://doi.org/10.1007/s00704-020-03401-2>
- **Singh, R.,** Kayastha, S. P & Pandey, V. P., (2021). Water Quality of Marshyangdi River, Nepal: An Assessment Using Water Quality Index (WQI). *Journal of Institute of Science and Technology*, 26(2), 13–21.
<https://doi.org/10.3126/jist.v26i2.41271> [NepJol Indexed]
- **Singh, R.,** Limbu, A.K and Pant, D.R., (2017). Direct Greenhouse Gas Emission from the Aviation Sector in Nepal. *Patan-Pragya, A Multidisciplinary Journal*, 3(1), pp. 285-291. ISSN-2594
- Pandey, P., **Singh, R.,** (2016). Local Perception of Tern Species Conservation around the Koshi River in Eastern Nepal. *Journal of Patan Multiple Campus Academic & Research Centre (PARC)*, 1 (1), 219-223 pp. ISSN 2565-4799.
- Baniya, B., Singh, N., **Singh, R.,** Shrestha, H & Bhattarai, B., (2013). Treeline Dynamics in Response to Climate (A case study of Langtang National Park). *Journal of Institute of Science and Technology*, 18(1), 120-126 pp.
- Pant, D.R., Limbu, A., **Singh, R.,** (2013). Extreme Asian Monsoon Rainfall and its Environmental Impact in the Upper Bagmati watershed of Nepal”. *Journal of TUTA Tri-Chandra Campus*,4, pp. 50-53. ISSN: 2091-1890

Thesis Supervision (MSc)

- Flood hazard mapping of the downstream of the Karnali River (Chisapani) using 2D numerical model, PMC-TU, 2024.
- Assessing the impact of Climate change in the hydrology of the Seti Gandaki River basin using the Glaciohydrological Degree Day model, PMC-TU, 2024.
- Assessment of the Impacts of Climate Change on Agricultural Productivity in Sunsari District, PMC-TU, 2024.
- Impact of Land-use Change in Water Quality, a study from Mahadev Khola Watershed, Bhaktapur, CDES-TU, 2015.
- Traffic noise pollution and hazard mapping in Ring Road, Kathmandu, CAS-TU, March 2020.

Professional Contribution

- Reviewer for *Theoretical and Applied Climatology*.
- Mentorship in the “South Asian Debate on Adaptation Finance Governance”, Dhaka, Bangladesh, 2017.

- Environmental Science syllabus Reviewer for Third- and Fourth year Bachelor's degree, Tribhuvan University, Nepal.
- Principal investigator of Faculty Research Grant provided by the University Grant Commission (UGC), Nepal, entitled "Traffic noise pollution and noise hazard mapping in Kathmandu", 2016.
- Board member in Wildlife Conservation, Nepal, since 2023.

Conference

Singh, R., Kayastha, S. P. & Pandey, V. P., (2021). Assessment of hydrologic alteration: a case of Marshyangdi Watershed. *Proceedings of the 18th Annual Meeting of the Asia Oceania Geosciences Society (AOGS 2021), August 1-6, 2021, Singapore.*

https://doi.org/10.1142/9789811260100_0028

Singh, R., Kayastha, S. P. & Pandey, V. P., (2021). Historical climatic extremes and its implication: a case of the Marshyangdi Watershed. 7th Graduate Conference on Environment and Sustainable, Himalayan Knowledge Conclave, May 24-25, 2021

Scholarships and Awards

- Swedish South Asia Studies Network (SASNET), 2022
- Nepal Academy of Sciences: Ph.D. Grant, 2017
- University Grant Commission: Faculty Research Grant, 2016
- University Grant Commission: Faculty Development Training, 2025

Professional Affiliations

Founder Member as a Treasurer : Nepal Environment Society (NESS)

Founder Member as a Treasurer: Kushwaha Intellectual Services Society

Board Member : Wildlife Conservation Nepal 2023

Referees

- ❖ Prof. Sadhana Pradhanang (Kayastha), Ph.D.
Nepal Academy of Sciences, Khumaltar, Nepal
Email: spradhanang@cdes.edu.np
- ❖ Prof. Vishnu Prasad Pandey, Ph.D.
Department of Civil Engineering, Institute of Engineering, Pulchowk Campus
Email: vishnu.pandey@gmail.com
- ❖ Prof. Deepak Aryal, Ph.D.
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