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ACADEMIC QUALIFICATION

2019 Sep -2024 Jan : PhD, University of Chinese Academy of Science, Institute of Urban Environment, Xiamen
Field of research : Flood Resilience Evaluation at Different Scales Based on Disaster Cycle
2007-2009 : M.Sc. Watershed Management
Institute of Forestry, T.U., Pokhara
Thesis : Flood Plain Analysis and Risk Assessment of Lothar Khola
2004-2007 : B.Sc. Environment Science
Khwopa College, T.U., Bhaktapur

JOB EXPERIENCE

Asst Dean, Institute of Forestry, Tribhuvan University, Balkhu, Kathmandu (14 Feb 2025 – till date)

Visiting Fellow- Institute of Earth Environment, Chinese Academy of Sciences, Xian (Aug 2024- Feb 2025))

Assistant Professor (Watershed Management) - Tribhuvan University, Institute of Forestry, Hetauda Campus (1 Jan 2017 till date)

Socio-Economic Analyst - International Centre for Integrated Mountain Development (ICIMOD) (28 April, 2015-31 Dec 2016)

Academic Officer-South Asia School of Rural Reconstruction, (1 Feb 2015- 11May 2015)

Research Officer-Consultant-Practical Action, Kathmandu (13 Feb 2014- 31 Dec 2014)

Researcher, Center of Research for Environment, Energy and Water, Kathmandu (3 Sep, 2013 – 12 Feb, 2014)

Research Associate, Water Engineering and Management Program, Asian Institute of Technology, Thailand (22 March, 2013- 31 Aug, 2013)

Research Assistant, Nepal Engineering College-Centre for Postgraduate Studies (*nec*-CPS), Balkhu, (July 12, 2010- March 13, 2013)

ADMINISTRATIVE EXPERIENCE

- **HOD** Watershed Management and Environmental Science from 2024 till Feb 2025
- **For Campus Chief**, Institute of Forestry, Hetauda Campus from 18 Feb 2019 till 24 April 2019
- **Assistant Campus Chief and M.Sc Program Coordinator** of Tribhuvan University, Institute of Forestry, Hetauda Campus from May 2018 to Sep 2019

PUBLICATION

- Adhikari, M., Pantha, S., Gouli, M.R., Dulal, B., **Manadhar**, B., Sedhain, A., Maharjan, M., and Thakuri., S. 2025. *Exposure of public and private infrastructure to flood hazards in the Mohana-Khutiya River Basin, Nepal*, H2Open Journal, 8(6), IWA Publishing. <https://doi.org/10.2166/h2oj.2025.024>
- Maharjan, M., Ayer, S., Newa, M., Timilsina, S., Thakuri, S., **Manandhar**, B., Singh, B., Rijal, ML., Sedhain, A., 2025. *Farmers' Flood Adaptation Strategies in the Mohana–Khutiya and East Rapti River Basins in the Chure–Terai Region of Nepal*, International Journal of Disaster Risk Reduction, 105182. <https://doi.org/10.1016/j.ijdr.2025.105182>
- Gelal, D., Timilsina, S., Ayer, S. Bhatta, K.P., **Manandhar**, B and Maharjan, M. (2024). *Soil erosion estimation in the Bagmati River basin of Nepal using RUSLE modeling to assess priority areas for conservation*. J. Sediment. Environ. <https://doi.org/10.1007/s43217-024-00189-3>
- Maharjan, M., Timilsina, S., Ayer, S., Singh, B., **Manandhar**, B., & Sedhain, A. (2024). *Flood susceptibility assessment using machine learning approach in the Mohana-Khutiya River of Nepal*. Natural Hazards Research. <https://doi.org/10.1016/j.nhres.2024.01.001>
- Wang, L., Cui, S., Tang, J., Fang, L., Fang, X., Shrestha, S., **Manandhar**, B., Huang, J., & Nitivattananon, V. (2023). *Riverine flood risk assessment with a combined model chain in southeastern China*. Ecological Indicators, 154, 110686. <https://doi.org/10.1016/j.ecolind.2023.110686>
- **Manandhar**, B., Cui, S., Wang, L., & Shrestha, S. (2023). *Post-Flood Resilience Assessment of July 2021 Flood in Western Germany and Henan, China*. Land, 12(3), 625. <https://doi.org/10.3390/land12030625>
- **Manandhar**, B., Cui, S., Wang, L., & Shrestha, S. (2023). *Urban Flood Hazard Assessment and Management Practices in South Asia: A Review*. Land, 12(3), 627.
- Wang, L., Cuia, S., Lid, Y., Huang, H., **Manandhar**, B., Nitivattananon, V., & Huang, W. (2022). *A review of the flood management: from flood control to flood resilience*. Heliyon, e11763. <https://doi.org/10.3390/land12030627>
- Shrestha, S., Cui, S., Xu, L., Wang, L., **Manandhar**, B., & Ding, S. (2021). *Impact of land use change due to urbanisation on surface runoff using GIS-based SCS–CN method: A case study of Xiamen city, China*. Land, 10(8), 839. <https://doi.org/10.3390/land10080839>
- Ojha, P., & Manandhar, B. *An Assessment of Soil Fertility Management Practices in Carrot Farming of Jurikhet Village, Makwanpur*. Journal of Environment Sciences, vol 7, 79-84, Department of Environment, Kathmandu
- Okogbue, Blessing C., Sajo, Opeyemi S., Nurtjahya, Eddy and **Manandhar**, **Bikram**, (2021). *Integrated approach to Wetlands and River Basin Management: The case of the Netherlands Meanderene de Maas River project*. Global Scientific Journal ISSN 2320-9186. <https://eoi.citefactor.org/10.11216/gsj.2021.05.50345>
- Dahal, S., & **Manandhar**, B*. (2021). *Soil management practices in commercial vegetable farming in changing socio-economic context in Makawanpur, Nepal*. Environmental Challenges, 100188. <https://doi.org/10.1016/j.envc.2021.100188>
- Shrestha, P., **Manandhar**, B., Dhungana, N., & Rajbhandari, S. (2020). *Status, Importance and Major Issues in Water Source in Watershed of Chitwan, Nepal*. Forestry: Journal of Institute of Forestry, Nepal, 17, 135-154. <https://doi.org/10.3126/forestry.v17i0.33628>

- Rayamajhi, N., & **Manandhar, B***. (2020). *Impact of climate change and adaptation measures on transhumance herding system in Gatlang, Rasuwa*. Air, Soil and Water Research, 13, 1178622120951173. <https://doi.org/10.1177/117862212095117>
 - Khadka, A., & **Manandhar, B.** (2020). *Assessment of Mainstreaming Disaster Risk Reduction and Climate Change Adaptation in Local Disaster Management Plan (A Case Study of Manahari Rural Municipality, Makawanpur)*. Journal of Environment Sciences, 89.
 - **Manandhar, B***. and Budhathoki, 2019. An Assessment of NTFPs and their Contribution to the Livelihoods of Rural People involved in Community Forest (A Case Study from Kalika Community Forest of Surkhet District, Nepal) International conference on International Conference (NRACC_2019) Natural Resources, Agriculture and Society in a Changing Climate, 17 Aug – 19 Aug 2019, Kathmandu, Nepal
 - **Manandhar, B.** 2016. *Remittance and Earthquake Preparedness*. International Journal of Disaster Risk Reduction, Volume 15, Pages 52–60
 - G. Gurung, M. Reddick, G. Congi, D. Bhandari, **B. Manandhar**, D. Trusilo, 2014. *Understanding the role of remittances in reducing earthquake risk*, Practical Action and Nepal Risk Reduction Consortium (2014)
 - Shrestha, S. and **Manandhar, B.** 2014. Evaluation of Root Zone Water Quality Model (RZWQM) using field measured data from Tropical Zone, Thailand. Water, Air & Soil Pollution. Publisher: Springer, Impact factor: 1.748 (2012)
 - **Manandhar, B.**, 2010: *Application of GIS and one-dimensional Hydraulic Flood Model (HECRAS) in Flood Plain Analysis and Risk Assessment of Lothar Khola*, DWIDP Bulletin, 2010, Department of Water Induced Disaster Prevention, Lalitpur, Nepal
 - **Manandhar, B.**, Balla, M. K., Awal, R., and Pradhan, B.M.: *Flood Plain Analysis and Risk Assessment of Lothar Khola (Stream)*, 11th ESRI India User Conference, Noida, New Delhi, India, 21-22 April, 2010. (<http://esriindia.com/~media/esri-india/files/pdfs/events/uc2010/papers/Bikram%20Manandhar.pdf>)
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INTERNATIONAL TRAINING

- International Training Program on Soil Carbon Cycling in Arid Ecosystems along the Belt and Road Countries organized by Institute of Earth Environment, CAS, in Xian from Aug 16 to 31 Aug 2024.
 - International Training Program on Theory and Technology for Ecological Restoration of Typical Ecosystems along the Belt and Road in Changsha, China organized by Institute of Subtropical Agriculture, CAS from June 15-29, 2024.
 - International Training course on SAR Remote Sensing for Land Deformation Studies organized by CSSTEAP, India from June 3-14, 2024.
 - Training Workshop on Observation and statistical models requirement for preparation of high-resolution reference data in Beijing organized by GCISC AND IAP-CAS from 21-23 Oct 2019
 - International Course on Wetlands, Integrated Water Resources Management and Food security held in Wageningen, the Netherlands from 4-22 June 2018.
 - Croucher Summer Course 2017 Research Methodology for Disaster and Medical Humanitarian Response in Hongkong, 3-7 July 2017.
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NATIONAL TRAINING PROGRAM

- Faculty Capacity Enhancement (FCE) Training organized by Institute of Forestry, Tribhuvan University in Kathmandu from 26 May- 2 June 2025.

- Orientation training for faculty members of universities to deliver WEF Nexus course organized by IOE in Kathmandu from 9-10 April 2024.
 - Gender and Inclusion Foundation training in Nepal organized by ICH in Kathmandu from 29-31 May, 2024
 - Capacity Building Trainings on Water Research Tools organized by CDES, TU from May 24-26, 2024
 - Synthetic Aperture Radar and Google Earth Engine organized by ICIMOD in Pokhara from 15-19 July 2019
 - Asia-Oceania GEOSS Network for capacity building and regional sustainable development: Agriculture and Disaster Monitoring in HKH organized by ICIMOD, from 17-21 Sep 2018.
 - HUC Academy 2018 organized by HUC, ICIMOD in Kathmandu from 1-14 July 2018.
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INTERNATIONAL CONFERENCE

- Paper present on ‘Soil and water management practices in agriculture in Nepal’ as oral speech at 4th International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-4), June 21-14 Changsha, China.
 - Paper present on ‘Carbon Stock in Private Forest of Midhills of Nepal’ as oral speech at International Symposium on New Technologies and Methods for Enhanced Ecosystem Carbon Sink and Reduced Greenhouse Emissions, organized by IEE CAS on 28-29 Aug, 2024
 - Paper present on ‘Assessment of Post-earthquake water poverty index: A case study of Thulosirubari VDC, Sindhupalchowk, organized by TGG-N Project, SCIFOR and MOPE, 30 Nov to 2 Dec 2017 in Kathmandu, Nepal
 - Paper presented on ‘Flood Plain Analysis and Risk Assessment of Lothar Khola’ as oral speech at International Conference on Mountain Waters and Livelihood, 30 October 2017 to 01 November 2017 in Sichuan University, Chengdu, China
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COURSE DEVELOPMENT

- B.Sc Forestry Environmental Management course
 - B.Sc Forestry Tour (field visit course)
 - M.Sc program: WEF Nexus module teaching manual preparation
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COMPLETED PROJECT

- Assessment of Soil and Water Management practices in agriculture – A case study of vegetable farming in Makwanpur District, 2074/75, funded by UGC (PI)
 - Scoping study: South Asia Air Pollution funded by DFID lead by TERI (member) July – Dec 2018 funded by DFID.
 - TMT on “Use of open-source platform for hydrological modeling of data sparse region in Nepal” lead by Future Water, Netherland (Local Project Leader) from Jan-July 2019 funded by NUFFIC
 - Hydrological characterization of an ungauged or limited monitoring data basin for flood risk assessment and water resources management – learning and sharing knowledge across the region, June 2017-April 2018, CO-PI funded by Himalayan University Consortium, Kathmandu
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