


SHOBHA POUDEL PhD

Curriculum Vitae

 Kathmandu, Nepal

 p.shabhu@gmail.com

Sex: Female

Nationality: Nepalese

Profile

I have more than 14 years of experience in trans-disciplinary research and work particularly in climate change adaptation, vulnerability and risk assessment, agriculture economics, disaster risk reduction and management, climate smart agriculture, environmental economics, ecosystem-based adaptation and nature-based resilience. Additionally, I have an in-depth knowledge of public policy formulation, policy options identification and policy review, monitoring and evaluation, Gender Equality, Disability and Social Inclusion (GEDSI), and coordination with local communities, stakeholders and government ministries. Adept in quantitative and qualitative research based on spatial (GIS) and statistical (Tableau, R, SPSS, XLStat) data, project design, planning, proposal development and report writing.

Experiences

Fondazione Eni Enrico Mattei (FEEM), Italy (October 2023 -)

Position: Marie Curie Postdoctoral Research Fellow

Supervisor: Prof. Sergio Vergalli

Research project: Assessing the Economic Efficiency of Climate Smart Agriculture in South Asia

USAID Biodiversity, Nepal (April - October, 2023)

Position: Thematic Lead - Climate Resilience

Major Responsibility: Support national-level climate change planning and implementation, provide technical guidance and support to implement national adaptation priorities, sustainable natural resource management and climate change policy rollouts at Sub-national level. Mobilize investments for climate resilience initiatives. Promote innovative transmission of climate and weather advisory services. Support and ensure to integrate climate resilient development initiatives/activities into community and sub-national level plans, policies and budgeting and planning process. Develop a private sector engagement action plan and encourage/engage private sectors to increase finance for adaptation and resilience.

Policy Research Institute, Nepal (February 2021- March 2023)

Position: Associate Research Fellow

Major responsibility: Contribute on formulation of national policy and program, Review of the Nepal's existing policies and provide feedback, Coordinate with government agencies, ministries, and stakeholders, and conduct policy dialogues related to the research. Lead the research project "Prime Minister Agriculture Modernization Programme in the context of commercialization: effectiveness and challenges". As well as ensure Gender Equality, Disability and Social Inclusion (GEDSI) are incorporated on the research and programs conducted by the Policy research Institute as a Gender Focal point.

Nepal Open University, Nepal (November 2020 ~)

Faculty of Science, Health and Technology

Position: Visiting Faculty

Major responsibility: Teach Research Methodology, curriculum development, supervise and mentor master's degree students, design assessment and evaluate, project monitoring and examination, provide guidance to develop the research skills.

Science Hub, Nepal (December 2019- February 2021)

Position: Research Fellow

Major responsibility: Lead research and development (Climate change, Disaster risk reduction and Food security), plan for research activities, inter-department coordination, data collection,

analyze and dissemination of results, supervise subordinates, report writing and, monitoring and evaluation of the project etc.

Principal Investigator: *Assessing the profitability of climate-smart agriculture in the Ganges-Brahmaputra river basin* awarded by Asia-pacific Network for Global Change Research –APN (October 2021- September 2023).

Principal Investigator: *“Cost-benefit Analysis of Climate Smart Agriculture in the Agro-Ecological Zone of the Gandaki River Basin of Nepal”*, awarded by Organization for Women in Science for the Developing World (OWSD), TWAS, UNESCO, (January 2019 to June 2022).

Sentinel Engineering Consultancy, Nepal (May 2017- November 2019)

Position: Climate Change and Food Security Expert

Project Completed:

- Impact of climate change in agriculture: A systematic review in the context of Nepal.
- Study of land cover change from 2000 to 2017 in Kanchanpur district by using Remote Sensing.
- Study of Morphological change process with respect to climate change in Narayani River

Climate Change Adaptation and Mapping (CCAM) Group, Nepal

Position: Assistant Project Manager (December 2011- January 2014)

Major responsibility: Responsible for coordinating the project activities and program management, research on climate change and food security, collaboration and partnership with stakeholders at the local and national level, and report writing etc.

Kumari Bank Limited, Nepal (March 2009 - November 2011)

Position: Assistant in Operation Department

Major responsibility: Initiate and implement corporate social responsibility, Lead customer service department and budget management at the branch level, supervise interns etc.

Academic Qualification

Ph.D., Global Environmental Studies – March 2017

Kyoto University, Japan

Master’s in Business Studies – November 2007

Tribhuvan University, Nepal

Bachelor’s in Business Studies – November 2005

Arunodaya College, Tribhuvan University, Nepal

IPCC Authorship

Contributing Author: The Working Group II contribution to the IPCC Sixth Assessment Report: Climate Change 2022: Impacts, Adaptation and Vulnerability. *Chapter 10 “Asia”*.

Research Projects

- **Principal Investigator**, Prime Minister Agriculture Modernization Programme in the context of commercialization: effectiveness and challenges. (April 2021-March, 2023)
- **Co-Principal Investigator**, Socio-economic Impact of Public expenditure in the infrastructure project of Nepal: A comparative study of public procurement and financial management (October 2021-March, 2023)
- **Co-Principal Investigator**, Policy provision on Inter-Province Carbon Emission Mitigation and Management in Nepal (January 2022-March, 2023)
- **Co-Principal Investigator**, Start-Up Businesses and Micro, Small and Medium Enterprises in Nepal: A Policy Perspective (November, 2021-November, 2022)
- **Co-Principal Investigator**, COVID-19 vulnerability and risk analysis: a multidisciplinary approach to overcome the pandemic (April, 2020-December, 2021).

- **Co-Principal Investigator**, Rapid assessment on gender impact from COVID-19 to women humanitarian professional (April, 2020–December 2021).
- **Co-Principal Investigator**, Earth observation and ICT for prudent financing of small-scale farmers (March, 2018–December, 2020).
- **Principal Investigator**, Assessment of the implementation of climate change adaptation plans and policies in Nepal, from December 2015 – February 2016.
- **Coordinator**, Post disaster impact assessment and recovery of Nepal earthquake 2015 from SEEDS Asia Japan, from May – July 2015.

Awards and Honors

- **Seal of Excellence** for outstanding research proposal, HORIZON-MSCA-2020, European Research Executive Agency (REA).
- **Early Career Women Scientists Fellowship** (2018–2020) from Organization for Women in Science for the Developing World (OWSD), The World Academy of Science, UNESCO \$49,000.
- **Research work featured** on Women in Science Day 2019, by INASP, UK.
- **Capture your Research Competition 2019 –Runner up**, by AuthorAid, INASP, UK.
- **Japanese Government (MEXT) Scholarship** for Doctor of Philosophy in Global Environmental Studies at Kyoto University, Japan from October 2014 to March 2016.
- **GSS Research Grant** from GSS Program (Inter-Graduate School Program for Sustainable Development and Survivable Societies) Kyoto University, Japan from October 2014 to March 2017 (¥ 3.331M).
- **GSS Research Fellowship** from GSS Program (Inter-Graduate School Program for Sustainable Development and Survivable Societies) Kyoto University, Japan from April 2016 to March 2017 (¥ 2.4M).
- **Merit Scholarship** 2005–2007 from Tribhuvan University Nepal for Master’s Degree in Business Studies.
- **Merit Scholarship** 2000–2005, from Arunodaya College, Tribhuvan University, Nepal for 10+2 and Bachelor Degree in Business Studies.
- **2nd Runner up Award**, Bachelor’s in Business Studies in the batch of 2002–2005, Faculty of Management, Arunodaya College, Tribhuvan University, Nepal.
- **Best Student Award** in the batch of 2000–2002, Faculty of Management, Arunodaya Higher Secondary School, Nepal.

Publications list

Refereed publications

- Mishra, B., Panthi, S., Ghimire, B. R., **Poudel, S.**, Maharjan, B., & Mishra, Y. (2023). Gridded precipitation products on the Hindu Kush-Himalaya: Performance and accuracy of seven precipitation products. *PLOS Water*, 2(8), e0000145.
- Mishra, B., Bhandari, R., Bhandari, K. P., Bhandari, D. M., Luintel, N., Dahal, A., & **Poudel, S.** (2023). High-Resolution Mapping of Seasonal Crop Pattern Using Sentinel Imagery in Mountainous Region of Nepal: A Semi-Automatic Approach. *Geomatics*, 3(2), 312–327.
- Mishra, B., Panthi, S., **Poudel, S.**, & Ghimire, B. R. (2023). Forest fire pattern and vulnerability mapping using deep learning in Nepal. *Fire Ecology*, 19(1), 3.
- Mukherjee, M., Wickramasinghe, D., Chowdhoree, I., Chimi C., **Poudel, S.**, Mishra, B., Faruqui Ali, Z., Shaw, R. (2022). Nature-Based Resilience: Experiences of Five Cities from South Asia. *International journal of environmental research and public health*, 19(19), 11846.
- Poudel, S.**, Wickramasinghe, D., Mukherjee, M., Chowdhoree, I., Chimi, C., Mishra, B., Abhinay, K., Mitra, S., Shaw, R. Science, Policy and Practice: The Status and Prospect on Nature-based Solution in South Asia. Under review *PLOS Climate*.
- Mishra, B., Ghimire, B.R and **Poudel, S.** Earth observation and ICT for prudential financing of small-scale farmers. *Science Bulletin* (Under review).

पौडेल, शोभा, खनाल, राजेन्द्र र खनाल, कल्पना (२०७९)। रुस-युक्रेन सङ्कटले नेपालमा सिर्जना गर्नसक्ने आर्थिक प्रभावका आयामहरु। रुस-युक्रेन सङ्कट- २०२२, (नेपालको कुटनीतिक अग्रसरता तथा यस सङ्कटका कूटनीतिक, आर्थिक र भूराजनीतिक प्रभावहरु)।

Poudel, S., and Mishra, B. (2022). Case Study 10: The Seti River Flash Flood Disaster in the Kaski District of Nepal. Scoping Study on Compound, Cascading and Systemic Risks in The Asia Pacific, *UNDRR*.

Poudel, S. and Basi, S. (2021). Diversification of Export Portfolio to Address Trade Deficit of Nepal [Policy brief]. *Policy Research Institute*.

पौडेल, शोभा र बसी सबिन। (२०७८) । नेपालको व्यापार घाटालाई सम्बोधन गर्न निर्यात प्रवर्धन र विविधिकरण [नीति संक्षेप] *नीति अनुसन्धान प्रतिष्ठान*।

Ghimire, B. R., Parajuli, R. R., Khatiwada, B., **Poudel, S.**, Sharma, K., & Mishra, B. (2021). Covira: A COVID-19 risk assessment, visualization and communication tool. *SoftwareX*, 16, 100873.

Parajuli, R.R., Mishra, B., Banstola, A., Ghimire, B.R., **Poudel, S.**, Sharma, K., Dixit, S., Shah, S., Simkhada, P., Simkhada, P. and Teijlingen, E. 2020. Multidisciplinary approach to COVID-19 risk communication: A framework and tool for individual and regional risk assessment, *Scientific Reports, Nature*, 10, 21650.

Poudel, S., Funakawa, S., Shinjo, H and Mishra, B. 2020. Understanding households' livelihood vulnerability to climate change in the Lamjung district of Nepal. *Environment, Development and Sustainability*, Springer.

Panthi, S., **Poudel, S.**, and Mishra, B. 2019. First Stop Human Depredation to Double the Number of Bengal Tigers. *Animal Conservation*, 22(1), p1 Wiley Online Library.

Poudel, S., Funakawa, S. and Shinjo, H., 2017. Perception of Climate Change and Its impacts by the Mountainous Households of Lamjung District Nepal. *Sustainability*, 9, 641.

Poudel, S. and Shaw, R., 2016. The Relationships Between Climate Variability and Crop Yield in a Mountainous Environment: A Case Study in Lamjung District, Nepal. *Climate*, 4(1), p.13.

Book Chapters

Poudel, S., Mishra, B., Ghimire, S., Luintel, N., Thapa, P., and Sapkota, R. (2023). Climate change and agroecosystem: impacts, adaption, and mitigation in South Asia. In *Climate Change, Community Response and Resilience*, Elsevier.

पौडेल, शोभा र सर्मिला टण्डुकार (२०७८) परिच्छेद ९, जापानको लेखन। शर्मा न्यौपाने, हरि र उप्रेति बिष्णुराज । (सम्पादन)। २०७८। नेपालको आर्थिक विकास नीतिका सन्दर्भमा विभिन्न मुलुकका आर्थिक नीति तथा आवद्यिक योजनाका अनुभव र बजेट तर्जुमा प्रक्रियाको सिंहावलोकन।

पौडेल, शोभा। (२०७८) परिच्छेद १२, कोभिड-१९ व्यवस्थापनमा फिनल्याण्डको अनुभव र नेपालको लागि सम्भाव्य सिकाईहरु। शर्मा न्यौपाने, हरि र उप्रेति बिष्णुराज, पन्त दिपेन्द्र प्रसाद। (सम्पादन)। २०७८। विभिन्न मुलुकमा कोभिड-१९ को महामारीको अवस्था, व्यवस्थापनको अनुभव र सिकाईहरु (प्रकाशन सङ्ख्या ०४५)। काठमाडौं। नीति अनुसन्धान प्रतिष्ठान।

Poudel, S. and Mishra, B. Shaw, R. 2021. Ecosystem-based approaches and policy perspectives in Nepal. In *Ecosystem-Based Disaster and Climate Risk Resilience, Integration of Blue-Green Infrastructure in Sustainable Development*, Springer Japan.

Poudel, S. and Shaw, R., 2017. Climate Change and Its impact on Land Use/Cover Change and Food Security in Nepal. In *Land Use Management in Disaster Risk Reduction*, Springer Japan. pp. 253-269.

Poudel S. and Shaw R., 2015. Demographic Changes, Economic Changes and Livelihood Changes in the HKH Region. In *Mountain Hazards and Disaster Risk Reduction*, Springer Japan. pp. 105-123.

Conference presentation

Poudel, S., 2022. Climate Smart Agriculture: Agriculture Technologies and Practices for Disaster Risk Reduction. Asia Pacific Ministerial Conference on Disaster Risk Reduction, (September 19-22, 2022), Brisbane, Australia.

Poudel, S., 2022. Prime Minister Agriculture Modernization Programme in the Context of Rice Commercialization in Nepal: Effectiveness and Challenges. 3rd Biennial International Scientific Conference (virtual), May 27-29, 2022 Atlanta USA.

Poudel, S., Funakawa, S., Shinjo, H., 2016. Climate change impacts at the household level food security in the mountainous region of Nepal. Proceedings of the 6th International Disaster and Risk Conference IDRC Davos 2016, Davos, Switzerland.

Poudel, S. 2016. Socio-economic impacts of climate change from the perspective of food security: A case study of Lamjung Nepal. 12th APRU Multi-Hazards Research Symposium, Role of science and technology in Sendai framework for Disaster risk reduction, 7-8 March 2016, Kyoto University, Kyoto, Japan.

Poudel, S. and Shaw, R., 2015. Climatic variability and crop yield relationship in the mountainous region: A case study of Lamjung district of Nepal. 2nd International conference on Global food security 11-14 October 2015, Ithaca, New York, USA.

Others Professional Experience

- **Resource person**- Training on Agriculture and Climate Change, Inservice Training of Class-II officers of Nepal Government, organized by Ministry of Agriculture and Livestock Development, Government of Nepal, February 1, 2023.
- **Honorarium Guest Speaker**- Importance of Policies in Resolving Climate Change Issues, organized by Powershift Nepal, July 30th 2022.
- **Resource Person**- INNOVATING PUBLIC POLICY: USE OF EVIDENCE (InnoPoLE) training for Class-II officers of Nepal Government jointly organized by Nepal Administrative Staff College and Policy Research Institute. 1 week, July, 2022.
- **Global Training of Trainers** on Ecosystem- based Disaster Risk Reduction and Climate Change Adaptation, UN Environment from May 2022.
- **Commentator** on Nepal Climate Diplomacy: Critical Issues and Way Forward Organized by Institute of Foreign Affairs Nepal, October 21, 2021.
- **Master Training of Trainer** on Gender and Climate Change Adaptation & Resilience, UN Women, from September 2021.
- **Master Training of Trainers** on Disaster Risk Management Localization Manual, An Operational Training Manual for Capacity Building of Local Levels in Nepal, International Organisation of Migration (IOM) from March 2020.
- **Trainer**, Organization for Women in Science for the Developing World (OWSD) PhD Regional workshop Kuala Lumpur, Malaysia 20-24 Aug 2019.
- **Co-Chair**, Strengthening disaster risk governance to manage disaster risk, 12th APRU Multi-Hazards Symposium, Role of science and technology in Sendai framework for Disaster risk reduction, 7-8 March 2016, Kyoto University, Kyoto, Japan.
- **Official Note-keeper**, Third UN world conference on disaster risk reduction (UNWCDRR 2015) March 15-18, 2015 Sendai, Japan.

Reviewers

- Agricultural and Forest Meteorology Journal, Elsevier
- Progress in Disaster Science, Elsevier
- Environment, Development and Sustainability, Springer
- International Journal of Environmental Research and Public Health, MDPI
- Nepal Public Policy Review

Trainings

- Global Training of Trainers on Ecosystem- based Disaster Risk Reduction and Climate Change Adaptation (virtual), UN Environment, May 2022.
- Master Training of Trainers on Disaster Risk Management Localization Manual, An Operational

Training Manual for Capacity Building of Local Levels, International Organisation of Migration (IOM) Kathmandu, Nepal 5 Days, March 11-15, 2020.

- Proposal Writing Training, Think Aloud, Kathmandu, Nepal 2 Days, May 22-23, 2019.
- QGIS Workshop, ITC, University of Twente, the Netherlands 2 Days, July 4-5, 2018.
- SDG DataViz Camp, University of Twente, the Netherlands 1 Week, from May 28 to June 1, 2018.

Online Courses and Certification

- **Online Access to Research in the Environment: OARE** from Research4Life, The United Nations Technology Bank for Least Developed Countries (UNTB) and FAO (June 15 to July 19, 2020)
- **Research Writing in the Sciences** from AuthorAid, INASP, UK (10 September to 2 December 2019) **Core topics covered:** Literature review; Research and publication ethics; Writing a research paper; Publishing a paper in a journal.

Computer Skills

Advance knowledge of Windows, XP, Vista, Mac OS X and Office package (Word processing, Excel spread sheets, PowerPoint, Keynote, and Outlook), **Statistical tools:**R, SPSS, XLStat etc. **Data visualisation tools:** Tableau **Geospatial tools:** QGIS.

Membership

- Member, South Asian Alliance for Disaster Research Institutes, 2021.
- Member, Centre for Disaster Management Studies, Kathmandu, Nepal 2019.
- Member, Women Humanitarian and Disaster Risk Reduction Platform, Kathmandu Nepal 2019.
- Founding member, Organisation of Women Scientists in Nepal, Kathmandu 2019.
- Member, Organisation for Women in Science for the Developing World, Trieste, Italy 2019.
- Member, Nepalese Student Association Japan 2016.
- Treasurer, Association of Business Students, Nepal 2006.
- General Secretary, Youth Red-cross Circle Tribhuvan University, Nepal 2007.
- Member, Community Mediation Project, Nepal 2005.
- President, Youth Red-cross Circle Tribhuvan University, Nepal 2003.

Languages

Nepali – Mother tongue
English – Fluent level
Hindi – Business level
Japanese – Basic level