

## Kumaun University, Nainital

### Curriculum Vitae

Name	: MANISHA TRIPATHI
Designation	: Associate Professor
Department	: Geography
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#### Educational Qualification

Degree	University	Subjects	Year
PhD	Jawaharlal Nehru University, New Delhi	Geography	2012
MPhil	Jawaharlal Nehru University, New Delhi	Geography	2003
UGC-NET	University Grants Commission-New Delhi	Geography	2000
PG	RML Avadh University, Faizabad, Uttar Pradesh	Geography (University Gold Medal)	1999
UG	RML Avadh University, Faizabad, Uttar Pradesh	College Gold Medal	1997
Intermediate	UP Board	District Topper National Scholarship	1994
High-school	UP Board	District Topper National Scholarship	1992

#### Work Experience

Position	Department	University/Organization	Year
Associate Professor	Geography	Kumaun University, Nainital, Uttarakhand	2017 till date
Assistant Professor	Geography	Kumaun University, Nainital, Uttarakhand	2009-2017
Lecturer	Geography	Kumaun University, Nainital, Uttarakhand	2004-2009

#### Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Coordinator	Departmental NAAC Committee	Kumaun University, Nainital, Uttarakhand	2023-2024
Member	Executive Council		2020-2021
Member	Disciplinary Committee		2020
Member	Admission Committee		2006-2009, 2014-2024
Co-coordinator	Refresher Course in Geography , UGC-HRDC		2021
Associated Member	Proctor Board		2013
Convener & Member	External Flying Squad		2009, 2006, 2007, 2009
Member	University <sup>7th</sup> Convocation Progress Report Preparation committee Publication & Invitation Committee		2005
Program Officer	NSS		2006
Member	Examination Control Room		2006
Member	University annual magazine 'Uplabdh' Editorial board		2006

#### Research Interests/ Areas of Expertise

1. Tectonics, Geomorphic Processes, Topographic Signatures and Applied Geosciences
2. Environmental Monitoring and Diagnostics including longer-term landscape responses to climate variability/ change events (interface of glacial-fluvial processes).

3. Quaternary Geochronology
4. Hill-slope, Hydrologic Response and Landscape Development in the Himalayas
5. Groundwater Resource Potential Mapping and Analysis
6. Hydro-geochemistry of Natural Springs.
7. Integrated Sustainable River Catchment Development and Management

### Publications: Research Papers

Authors name	Title of the paper	Vol., page no	Year
Maurya, A.K.; Tripathi, M.	Physiographic Study of Kalsa River Basin, Kumaun Lesser Himalaya by Morphometric Analysis and Geospatial Techniques	Vol. 8, Issue 7	2023
Pal, A.; Tripathi, M.	Morphometric Studies fourth order River Basin in Rohilkhand Region Uttar Pradesh, Using Remote Sensing and Geographic Information System Techniques.	Vol. 8, Issue 2	2021
Singh, N.; Manisha Tripathi, Kumar, S.	Morphometric analysis of Baur catchment in lesser Himalaya: using geo-spatial techniques'.	Vol. 9(5) pp 83-100	2021
Manisha Tripathi	Spatio-temporal analysis of hydro-geochemistry of groundwater resources through spring discharge in Central Himalayan region, Uttarakhand, India.	Vol.25, No.3, pp 33-48,	2021
Manisha Tripathi	Impact of Climate Change on Water Resources and the Role of Community Participation towards Adaptation Strategies and Management Practices: a study of the Central Himalayan Region.	Vol. 8 Issue 2 , pp 33-42	2020
Manisha Tripathi	Climate Change and the Processes and Patterns of Landform Evolution in the Himalayas: A Review'.	Vol.6, Issue-1 pp 268-278,	2019
Manisha Tripathi	Landscape changes due to unplanned development of urban built-up area in Lake City Nainital, Uttarakhand, India.	Vol. 5, Issue 3; pp. 110-117	2018
Manisha Tripathi	Land-use Transformation: Challenging Carrying Capacity and Decaying Quality of Life in Nainital Lake Catchment area.	Vol. 5 (12), pp 2451-2461	2018
Manisha Tripathi	Haphazard growth of human habitation in and around Nainital, Uttarakhand, India: ecologically unbalanced man-environment relationship scenario'.	Vol.02, Issue:12, pp 7589-7607	2018
Manisha Tripathi	Natural Resource Utilization and Management Practices and Associated Rural Livelihood Patterns in the Hill Terrain of Central Himalaya'	Vol.-5-Issue-3, pp 314-321	2018
Manisha Tripathi	Morphometrical Assessment Using Remote Sensing and GIS Techniques in the Micro Watersheds of Ramganga River Basin, Almora District Uttarakhand India'	Vol. 4, No 11&12, pp 767-777	2017
Manisha Tripathi	Integrated Watershed Approach to Natural Resource Management in Rural Hill Environment of Kumaun Himalaya	Vol. 02, Issue:12, pp 6031-6043	2017
Manisha Tripathi	Geospatial Technology Based Watershed Approach for Natural Resource Management in Central Himalaya, India	Vol.4, Issue 4, pp 282-287	2017
Manisha Tripathi	Assessing Impact of Climate Change on Water Resources of Kumaun Himalaya	Indian National Geographer, S.J. Edition	2011

### a) Books

Author (s) Name	Title of the book	Publisher	ISBN	Year
Manisha Tripathi	Geomorphology of Landforms Development	NB Pub., Ghaziabad	978-93-84667-3-13	2020
Manisha Tripathi	Environmental Consideration on Himalayan landscape Evolution	SB Enterprise Kolkata, West Bengal	978-93-89234-13-8	2019

### b) Book Chapters

Author (s) Name	Title of the book	Publisher	ISBN	Year
Manisha Tripathi	Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies	Springer Nature	978-3-319-18662-7 978-3-319-18663-4 (eBook)	2016
Manisha Tripathi	Geo-Resources, Shrivastava, K.L. et.al (eds.),	Scientific Publishers India	ISBN:978-81-7233-895-4	2014
Manisha Tripathi	Geographic Mosaic, R.S.Dixit et.al.(eds)	Pub. The Institute of Geographers India, Gyan Printers, Lucknow	ISBN:978-81-925175-0-6	2013
Manisha Tripathi	Water and Geo science, E. D. Schmitter et al. (ed),	WSEAS Pub. Press	ISSN:1790-5095 ISBN: 978- 960-474-160-1	2010
Manisha Tripathi	Urban Lakes in India: Conservation, Management and Rejuvenation Editors :Bhatia et al(eds.)	Published by National Institute of Hydrology, Anubhav Printers, Roorkee	-	2005
Manisha Tripathi	Fundamentals of Human Geography (Hindi Translation- <i>Manav Bhoogol Ke Mool Siddhant</i> )	NCERT, New Delhi.	.	2007

### c) Conference Publications/Proceedings

Authors name	Title of the paper	Conference name	Year
Manisha Tripathi	In the Face of Changing Climate: Groundwater Development through Artificial Recharge in Hard Rock Terrain of Kumaun Lesser Himalaya	16 <sup>th</sup> International Association for Mathematical Geosciences. IAMG,USA & SES, JNU New Delhi	2014

### Research Projects

Title of the project	Funding agency	Amount (Rs)	Year
Assessment of the impact of climate change on natural resources and determination of planning framework based on integrated watershed management approach for conservation, management and sustainable development of natural resources in Kumaun Himalaya, Uttarakhand, India.(PI)	CM HE SPY, Uttarakhand State	12,02,000	2024
Neotectonic activities and its implications on river response and quaternary landform development; a case study of middle part of Western Ramganga River, Kumaun Lesser Himalaya, India (PI)	KUIFR, Kumaun University, Nainital	2,00,000	2024
Geomorphological and chronostratigraphic reconstruction of glacial episodes of Gangotri Glacier in Bhagirathi Basin, NW Garhwal Himalaya (Co PI)	DST, New Delhi	36,38,000	2013-2017
Environmental Restoration and Water Conservation in the Himalayas” (Associated as project fellow)	India -Canada Environmental Facility (ICEF)	-	2002-2004

## Teaching Details

Name of the course/paper	Department	University	Year
PhD	Geography	Kumaun University, Nainital	2014-2024
MA/MSc-Annual Mode (2005-2009)			2005-2009
MA/MSc – Semester Mode			2012-2024
BA/BSc-Annual Mode (2004-2009)			2021-2024
BA/BSc-Semester Mode	Regional Development	Centre for the Study of Regional Development,	
MA II Semester			2011
MA III Semester			2012

MA III Semester	Guided fieldwork for Course No. RD-415- Methods of Field works in Physical Geography in Bhagirath Kharak and Satopanth Glacier Garhwal Himalaya, Uttarakhand · Glacial Snout Positioning · Survey and study of high altitude geomorphological/geological processes and resultant landforms. · Detailed survey /analysis of Fluvio-glacial landforms in high altitude Garhwal Himalayas. · High altitude vegetation survey in Garhwal Himalayas			2010
MA III Semester	Guided fieldwork for Course No. RD-415- Methods of Field works in Physical Geography in Batal Glacier- Lahaul-Spiti, Himachal Pradesh			2003

### Professional Memberships

Organization	Position	Year
Geographical Society of Himachal Pradesh	Regional Representative of Uttarakhand	2024
Deccan Geographical Society	Life Member	2023
Geographical Association of Uttarakhand	Founder Member	2023
Indian Society of Remote Sensing	Life Member	2020
International Association of Hydrological Sciences (IAHS)	Member	2011
Indian Institute of Geomorphologist (IIG)	Life Member	2012
The Allahabad Geographical Society (AGS)	Life Member	2012
National Book Trust (NBT)	Member	
Bhartiya Gyanpeeth	Member	

### Honours and Awards

Award	Awarding Organization	Year
International Association of Geomorphologist (IAG) Grant Holder	International Association of Geomorphologist/Association Internationale des Géomorphologues (IAG/AIG), Paris, France	2013
Travel Grant	Uttarakhand State Council for science and technology (UCOST) Dehradun	2013
Teacher Fellowship Award	UGC New Delhi	2009
Post Graduate University Gold Medal	RML Avadh University, Faizabad, Uttar Pradesh	1999
College Gold Medal	RML Avadh University, Faizabad, Uttar Pradesh	1997
District Topper (intermediate)	National Scholarship	1994
District Topper (High School)	National Scholarship	1993

### Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Paper presented on 'Study of urbanization as a critical threat to ecological sustainability with special reference to Central Himalayan Lake City' Co-chaired Technical Session	XVIII International DGSI Conference on "Urbanization and Climate Change: Strategies for Sustainable Cities through Geospatial Technologies"	Department of Geography, Osmania University, Hyderabad, Telangana	2024
Geomorphological signatures of neotectonic activities along the course of Ramganga River (W), Kumaun Lesser Himalaya, India Co-chaired Technical Session	35 <sup>th</sup> Institute of Geomorphologists (IGI) National Conference on Geomorphology, Environment and	Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi	2023

Rapporteur Technical Session	Management		
Co-chaired, technical session	International Conference on Climate Change, Natural Hazards and Sustainable Livelihoods	Department of Geography at Kirori Mal College, University of Delhi, Delhi, India	2022
Advisory Board Member			
Webinar Convener	Climate change , Disasters and Disaster Risk Reduction in Indian Himalayan Region (IHR)	UGC-HRDC, Kumaun University, Nainital Uttarakhand	2021
Chaired- Technical Session	International E-Conference on “Geography for People, Planet, Prosperity and Peace”	42 <sup>nd</sup> IIG Annual Meet Department of Geography, Savitribai Phule Pune University (SPPU), Pune and Institute of Indian Geographers (IIG)	2021
Judge, Prof. B. Hema Malini Promising Geographer Award	International E-Conference	Department of Geography, Kurukshetra University at 21 <sup>st</sup> Association of Punjab Geographers meet	2021
Lead Lecture on “Geography for People, Planet, Prosperity and Peace”	International E-Conference on “Geography for People, Planet, Prosperity and Peace”	Institute of Indian Geographers (IIG) and Department of Geography, Savitribai Phule Pune University (SPPU), Pune, Maharashtra	2021
International Conference Advisory Committee Member	XV <sup>th</sup> DGSI International Conference on “Climate Change , Disasters And Sustainable Livelihood”	Department of Geography, University of Allahabad, Prayagraj, Uttar Pradesh	2020
Resource Person	Two week Refresher Course on Earth Sciences	UGC–HRDC, Himachal Pradesh University, Shimla	2020
Participated in One day workshop	Building competency of teachers for online teaching?	Kumaun University, Nainital, Uttarakhand	2020
Subject Expert	Advisory Committee meeting for the preparation of Definitional Dictionary of Geography	CSTT,MHRD-GoI/ New Delhi	2017
राष्ट्रीय संगोष्ठी में प्रतिभागी के रूप में सहभागिता	“संस्कृत साहित्य में राष्ट्रीयता” विषय पर दो दिवसीय राष्ट्रीय संगोष्ठी	डी एस बी परिसर कुमाऊं विश्वविद्यालय नैनीताल एवं हरियाणा ग्रन्थ अकादमी के संयुक्त तत्वावधान में आयोजित	२०१७
Subject Expert	Advisory Committee meeting for the preparation of Definitional Dictionary of Geography	CSTT,MHRD-GoI/ HPU, Shimla, Himachal Pradesh	2017
Paper presented on ‘Geomorphometry and Stages of Landform Development in a Central Himalayan Drainage Basin’	9 <sup>th</sup> International Conference on Geomorphology (ICG)	International Association of Geomorphologists (IAG) and IGI, Vigyan Bhawan, New Delhi, India	2017
Subject Expert	Advisory Committee meeting for the preparation of Definitional Dictionary of Climatology	CSTT,MHRD-GoI/ New Delhi	2016
Subject Expert	Advisory Committee meeting for the preparation of Definitional Dictionary of Geography	CSTT,MHRD-GoI/ HPU, Shimla, Himachal Pradesh	2016
Participated in two days	IHCAP International	Swiss Agency for	2015

International workshop	Workshop on Climate change impact and adaptation in Himalaya: Science and policy interface	Development Corporation SADC, IHCAP and Department of Geography, Kumaun University, Nainital, Uttarakhand	
Paper presented on 'In the Face of Changing Climate: Groundwater Development through Artificial Recharge in Hard Rock Terrain of Kumaun Lesser Himalaya'	16 <sup>th</sup> International Association for Mathematical Geosciences Conference on "Geostatistical and Geospatial approaches for the characterization of Natural Resources in the Environment: Challenges, Processes and Strategies"	IAMG, USA & School of Environmental Science (SES), Jawaharlal Nehru University, New Delhi	2014
Hydro-Geochemistry of Groundwater in the Middle Valley of Western Ramganga River, Kumaun Lesser Himalaya, India	8 <sup>th</sup> IAHS International Groundwater Quality Conference (GQ13) on Managing Groundwater Quality to Support Competing Human and Ecological Needs	University of Florida, Gainesville, Florida, USA	2013
Participation Grant for GQ13 Florida, USA	International Travel Grant Support	Uttarakhand State Council for science and technology (UCOST) Dehradun, Uttarakhand	2013
Paper presented on 'Neo-Tectonics and Landform Assemblage in the Middle Valley of Ramganga River (W), Kumaun Lesser Himalaya, India'	8 <sup>th</sup> IAG International Conference on Geomorphology and Sustainability	International Association of Geomorphologist (IAG/AIG) and Groupe Français de Géomorphologie (GFG) Paris, France	2013
Invited participant; field training workshop "	Field training workshop on Glacier, Periglacier, Permafrost and Torrential System in Zermatt Valley and Cervin Swiss Alps, Switzerland	Department De Geosciences, Université De Fribourg, Suisse, Switzerland	2013
Special Invited Lecture How to prepare for UGC/SLET Exam	Special invited lecture on 'How to prepare for UGC/SLET Exam' for UGC/SLET Candidates	Equal Opportunity Cell, Kumaun University, Nainital, Uttarakhand	2013
Project Presented on 'Impact on Rural Livelihood, field based special study of Shay Village, Leh, Ladakh'	Ten-days workshop on Climate Change cryosphere, habitat and changing Water: Livelihood pattern of Ladakh region: An Interdisciplinary Approach towards Developing Adaptive Strategies	NIH, Roorkee & University of Jammu in Leh, Ladakh	2013
Paper presented on 'Linking Climate Change and Water Resources: Impacts and Responses from the Kumaun Himalaya'	IGI, Silver Jubilee Year 25th National Conference on	Indian Institute of Geomorphologists (IGi) and Department of Geography, University of Allahabad, Prayagraj Allahabad, Uttar Pradesh	2012
Paper presented on 'Natural Resource Management and Its Geomorphological and Environmental Impact on the	IGU Commission International Conference on 'Local and Regional Responses to Globalization	IGU Commission and Department of Geography, Kumaun University, Nainital	2011

Socio-economic Conditions of a Geologically Fragile Hill Terrain...	in the Mountains and Marginal Areas of the World'		
Training Participant	Ten days training workshop on Chemical Analysis of Drinking Water	YBO, Central Water Commission, New Delhi.	2010
Training Participant	Seven days training program on 'Yoga and Alternate Therapy'	Yoga Kendra, JNU, New Delhi	2010
Training Participant	Seven days training program on 'Yoga and Relaxation'	Yoga Kendra, JNU, New Delhi	2010
Paper presented on Water Resources, Present Scarcity and Future Prospects: Challenges in Terms of Nothing Rest for Management-Micro Watershed Approach of a Kumaun Lesser Himalayan Catchment of Western Ramganga River (Almora) Uttarakhand, India'.	5th IASME / WSEAS International Conference on Water Resources, Hydraulics & Hydrology (WHH'10),	Cambridge University, Cambridge, United Kingdom	2010
Participated in Winter School	Seven days Winter School on Geographical Information Systems and Their Applications'	Indian Institute of Information Technology, (IIIT) Allahabad, Uttar Pradesh.	2009
Paper presented on 'Environmental degradation : a civic disaster changing landscape & decaying quality of life step by step in Nainital'	185 <sup>th</sup> Refresher Course- Geography	UGC-ASC, Himachal Pradesh University, Shimla	2008
Training Participant	Seven days training workshop on "GIScience for Spatial Analysis and Regional Development	Jointly organized by Centre for Geoinformatics, Salzburg University, Austria & Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi, India	2008
Participated in two days Indo-German conference	Attended two days Indo-German conference on "Living In High Altitudes Culture and Environment in Uttarakhand Himalaya"	Jointly organized by Department of history Kumaun University Nainital and South Asia Institute, University of Heidelberg Germany	2008
Presented project report on 'Origin and Evolution of Summer Hill market in Shimla'	185 <sup>th</sup> Refresher Course- Geography	UGC-ASC, Himachal Pradesh University, Shimla Himachal Pradesh	2008
Presented project report on 'Drainage network analysis; micro-watersheds of Western Ramganga, Uttarakhand using ARCGIS 9.2'	Seven days Training Course on GIScience for Spatial Analysis & Regional Development,	Centre for Geoinformatics, Salzburg University Austria & Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi, India	2008
Training Participant	Ten days training program on "Remote Sensing & Geographical Information System	Department of Geography, Kumaun University Nainital, Uttarakhand	2007
Paper presented on 'Land use transformation: An environmental emergency in Nainital'	Three-days "International Congress of Environmental Research (ICER-07	Organized by GGG, PG College & Journal of Environmental Research &	2007



		Development India(JERAD), Bhopal Madhya Pradesh	
Subject expert in Review Committee Workshop	Five-days "Review Committee Workshop"	Department of Education in Social Sciences and Humanities, National Council of Educational Research and Training (NCERT) New Delhi	2007
Training Participant	Five-days training course on "Hydrology of Lakes For Sustainable Human Benefits"	Jointly organized by NIH Roorkee & CASG, Punjab University ,Chandigarh	2007
Participated in National Conference	Two Days National Seminar on "Geoinformatics and Spatial Applications"	Organized by Department of Geography Osmania University Hyderabad, Andhra Pradesh, India	2006
Participated in one day workshop	One-day workshop on "Application of Remote Sensing and Geographical Information System in Natural Resource Management"	Organized by Department of Geography Kumaun University,Nainital and Uttarakhand Space Application Centre (U-SAC) Uttarakhand	2006
Paper presented on 'Climate change and landform evolution in the Himalayas'	Two days National Seminar on "Redefining Geography"	Organized by Department of Geography, Osmania University Hyderabad A.P. India,	2006
Participated in the one-day workshop	One-day workshop on "Patenting: What, Why and How"	Organized by Department of Bio-technology, Kumaun University Nainital	2006
Paper presented on 'Slaying the beauty of Naini Lake: a geographical and environmental perspective'	Two days National Seminar on "Hydrological Aspects of Rejuvenation of Urban Lakes"	Organized by National Institute of Hydrology, Roorkee & Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan	2005
Participated in one day workshop	One day workshop on "Remote Sensing and Geographical Information System"	Jointly organized by the Department of Geography Kumaun University Nainital & Regional Remote Sensing Service Centre (RRSSC) Dehradun, Uttarakhand.	2005
Participated in the four-week "Orientation Course"	Attended four-week "Orientation Course"	Organized by Academic Staff College, Jawaharlal Nehru University, New Delhi-67	2005
Participated in three days "Train – The –Trainer International workshop	Three days "Train –The – Trainer International workshop on "Didactical Aspects of Giscience Education" at	Organized by Centre for the Study of Regional Development, School of Social Science Jawaharlal Nehru University, New Delhi, India.	2005
Participated in five day Training Workshop	UGC-CAS sponsored five day Training Workshop on Cartography, Remote Sensing and GIS	Organized by Centre for the Study Of Regional Development, School of Social Science Jawaharlal Nehru University, New	2004

		Delhi, India	
Selected Participant in International Summer School	Inter GIS Summer School-I on "Digital Terrain Modelling"	Centre for Geo-Informatics, University of Salzburg Austria	2004
Selected Participant in International Summer School	Inter GIS Summer School II on "Land Use Modelling"	SPIN Lab Faculty of Earth and Life Sciences and Faculty of Economics and Business Administration, Free University, Amsterdam, The Netherlands	2004

*Manisha Tripathi*

**Signature of the faculty member**