







Designation and Affiliation	DR. SUMIRA NAZIR ZAZ Coordinator, Assistant Professor Department of Environment, Sustainability & Climate Change Islamic University of Science & Technology (IUST) 1-University Avenue, Awantipora, Pulwama, Pin Code-192122, GPO (Srinagar) Post Box No. 89 Jammu & Kashmir, India	
E-mail & Contact Numbers (Google Scholar, ResearchGate & ORCID)	 zaz.sumira@iust.ac.in ; zaz.sumira@gmail.com  + 91- 7889580645  https://scholar.google.com/citations?user=8lvbc7QAAAAJ&hl=en  https://www.researchgate.net/search/publication?q=sumira+nazir+zaz  https://orcid.org/0000-0002-9901-2073	
Employment Details: ❖ Assistant Professor: Department of Environment, Sustainability & Climate Change, IUST (24.06.2024-Continue) ❖ Contractual Assistant Professor: Department of Earth Science, University of Kashmir (9.04.2009 to 31.05.2024).		
Education Details: ❖ Ph.D. (2016): Climate change of Kashmir, University of Kashmir, Hazratbal, Srinagar, J&K, India. ❖ M.Phil. (2011): Geoindicators of Land degradation of Kashmir Valley, University of Kashmir, Hazratbal, Srinagar, J&K, India ❖ Master of Science (2010): Applied Geology, University of Kashmir, Hazratbal, Srinagar, J&K, India. ❖ Bachelor of Science (2008): Applied Geology, Amar Singh College, Srinagar, J&K, India		
Area of specialization Climate Change, Disaster Management, GIS Modelling		
Subjects taught at PG level: Climate Change; Drivers of Climate Change, design your degree in Nature based Solution. GIS Modelling, Landslides and Erosion mapping		
Key Achievements:		
Research Publications: <ul style="list-style-type: none">• Research Papers Published: 12• Book Chapters Published: 01• Research Papers Accepted for Publication: 01• Book Chapters Accepted for Publication: 01• Research Papers communicated: 02		
Awards & Recognitions: <ul style="list-style-type: none">• Gold Medal in PG Earth Sciences• 1st position in UG Amar Singh College Srinagar, J&K, India• National Eligibility Test Young Scientist Award	Book chapter <ul style="list-style-type: none">• Impact of Landuse/Landcover (LULC) Changes on the Hydrology of the Upper Indus Basin (Jhelum) under Changing Climate India III: Climate Change Impacts, Mitigation and Adaptation	
Dissertation Guidance: <ul style="list-style-type: none">• M.Sc. Geoinformatics/Geology: 15	Proceeding/ Popular Articles: Worked with NGO Action Aid for a report on climate Change "On the brink of Climate Change"	
Professional Trainings: <ul style="list-style-type: none">• Orientation Course (14 days): 01• Refresher Course (14 days): 01	Conferences/Seminars/Workshops/Webinars: <ul style="list-style-type: none">• Conferences & Seminars: 11• Workshops: 5• Webinars: 10	
Reviewer of Journal: Journal of Geosystems and Geoenvironmental Elsevier	Membership of Professional Societies: <ul style="list-style-type: none">• Treasurer and Life Member of Indian Society of Meteorology (Srinagar Chapter) (Membership No. LM-3176).• Executive member of Indian Society of Geomatics (Kashmir Chapter): Membership No. ISG-L-920	
Designed & Developed Course Curriculum: 04		

Degree	Supervisor	Duration	Grade	Title of thesis
PhD	Prof. Shakil Ahmad Romshoo	2012-2016	A+	Investigating the effect of changing landcover and climatic variability on the hydrology of Kashmir valley
MPhil	Prof. Shakil Ahmad Romshoo	2007-2011	Outstanding	Assessing the Geoindicators of land degradation in the Kashmir valley.

DETAILS OF EMPLOYMENT

Details of Employment	Name of Organization	From	To	Nature of Work
Current Employment (Assistant Professor)	Department of Environment Sustainability & Climate Change, Islamic University of Science & Technology, Awantipora, Pulwama, J&K, INDIA	24.06.2024	Continue	Teaching & Research
Contractual Assistant Professor	Department of Earth Sciences, University of Kashmir, Jammu & Kashmir, INDIA	11.04.2009	31.05.2024	Teaching & Research

WORK EXPERIENCE

Teaching	Fifteen Years teaching experience along with syllabus drafting, Question Paper Setting Answer Paper Evaluations, Drafting of Time Table. Invited member of Board of Studies, Invited member of Departmental Research Committee,
Research	Assessment of land degradation, erosion and Landuse/Landcover Change. Investigating the effect of Climate Change and Landuse/Landcover changes on the hydrology of Kashmir Valley

AWARDS/RECOGNITIONS/ RESPONSIBILITIES

Coordinator	<ul style="list-style-type: none"> Department of Environment, Sustainability & Climate Change, Islamic University of Science & Technology (IUST), 1-University Avenue, Awantipora, Pulwama, Pin Code-192122, GPO (Srinagar) Post Box No. 89, Jammu & Kashmir, India. (03-07-2024 to Continue).
Member, Women Entrepreneurship development Cell	<ul style="list-style-type: none"> CIED-IUST Foundation, Islamic University of Science and Technology (IUST), Awantipora, Kashmir
Nodal Officer, Jal Sanchay Jan Bhagidiri UGC (JSJB)	<ul style="list-style-type: none"> Department of Environment Sustainability and Climate Change (ES&CC), Islamic University of Science and Technology (IUST), Awantipora, Kashmir (19-07-2024 to Continue).
Member, Board of Studies (BoS)	<ul style="list-style-type: none"> Department of Environment Sustainability and Climate Change (ES&CC), Islamic University of Science and Technology (IUST), Awantipora, Kashmir (16-07-2024 to Continue).
Organizing Member (Winter School)	<ul style="list-style-type: none"> National Geospatial program-DST sponsored Winter School on Geospatial Technology organized by Department of Geoinformatics, University of Kashmir on 1st December-21st December 2022
Organizing Member (INSPIRE-2011)	<ul style="list-style-type: none"> INSPIRE Program Regional workshop organized by Department of Earth Science, University of Kashmir, Srinagar on 25th July, 2011 for five days.
Organizing Secretary (PARPS-2022)	<ul style="list-style-type: none"> National Conference on 'Promoting Applied Research in Plant Sciences (PARPS-2022), organized by Department of Botany, Central University of Jammu (09th-10th November, 2022), Jammu & Kashmir, INDIA.
National Eligibility Test	<ul style="list-style-type: none"> University Grants Commission-Council of Scientific and Industrial Research (UGC-CSIR)
Reviewer (International Journals)	<ul style="list-style-type: none"> Journal of Geosystems and Geoenvironmental Elsevier.

ORIENTAION/TRAININIGS/REFRESHER COURSE

Refresher Course (2 weeks)	Successfully completed Fourteen (14) Days Online Faculty Development Programme (FDP) by Malaviya Mission Teacher Training Program on NEP 2020 Orientation and Sensitization program. (4-11-2024 to 18-11-2024)
Orientation Course	Successfully completed Orientation course by Malaviya Mission Training Program on Materials for Energy and Sustainability (27-08-2024 to 5-9-2024)
Orientation Course (21 days)	Successfully completed Twenty-one days (21 days) Entrepreneurship Orientation Program on Medicinal and Aromatic Plants III (EOMAP-III)" organized by Medi-Hub, Technology Business Incubator (TBI), ICAR-DMAPR, Anand (Gujarat), India (Dated: 19 th July-8 th August, 2021).
Short Term Course (4 months)	Successfully completed four-month online course on Machine Learning in Weather and Climate by European Centre of Medium Range Weather Forecasts (ECMWF) January-April 2023
Winter school on Geospatial Technology	Attended the winter school on Geospatial Technology organized by Cryosphere Lab university of Kashmir and NGP-DST Technology GOI (1st to 21st December 2022)

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Treasurer and Life Member of Indian Society of Meteorology (Srinagar Chapter) (Membership No. LM-3176).
2. Executive member of Indian Society of Geomatics (Kashmir Chapter): Membership No. ISG-L-920

RESEARCH PUBLICATIONS

1. Kirean Hunt and **Sumira Nazir Zaz** (2023). Linking the North Atlantic Oscillation to Winter Precipitation over the Western Himalaya through disturbances of subtropical Jet. *Climate Dynamics*. <https://doi.org/10.1007/s00382-022-06450-7>. (IF:4.9)
2. **Sumira Nazir Zaz**, Shakil Ahmad Romshoo, T. K. Ramkumar, and V. Yesu Babu (2019). Climatic and extreme weather variations over Jammu and Kashmir, India. *Atmospheric. Chemistry and Physics*, 19, 15–37, 2019 <https://doi.org/10.5194/acp-19-15-2019> (IF. 6.128).
3. **Sumira Nazir Zaz**, Shakil Ahmad Romshoo, T. K. Ramkumar, and V. Yesu Babu (2018). Climatic and extreme weather variations over Jammu and Kashmir, India. *Atmospheric. Chemistry and Physics. Discussion.*, <https://doi.org/10.5194/acp-2018-201>
4. **Sumira Nazir Zaz** and Shakil Ahmad Romshoo (2022). Landslide Susceptibility Assessment of Kashmir Himalaya, India. *Arabian Journal of Geosciences* 15:552 <https://doi.org/10.1007/s12517-022-09699-8> (IF:1.8)
5. Shakil Ahmad Romshoo, **Sumira Nazir Zaz** and Nahida Ali. (2017). Recent Climatic Variability in Kashmir valley, India and its impact on stream flows of the river Jhelum. *Journal of Research and Development* 17:1-22; ISSN:0972-5407.
6. Shakil Ahmad Romshoo, Reyaz Ahmad Dar, Irfan Rashid, Asif Marazi, Nahida Ali, **Sumira Nazir Zaz** (2015). Implications of Shrinking Cryosphere under Changing Climate on the Streamflows in the Lidder catchment in the Upper Indus Basin, India. *Arctic Antarctic and Alpine Research* 06/2015;47(3). (IF: 2.231)
7. **Sumira Nazir Zaz**, Shakil Ahmad Romshoo (2013). Recent variation in temperature trends in Kashmir Valley (India). *Journal of Himalayan Ecology and Sustainable Development* Vol 8 pp 42-60
8. **Sumira Nazir Zaz** and Shakil Ahmad Romshoo (2012). Assessing the Geoindicators of Land Degradation in the Kashmir Himalayan Region, India. *Natural Hazards*, DOI: 10.1007/s11069-012-0293-3 (IF:3.102)
9. **Sumira Nazir Zaz**, Shakil Ahmad Romshoo and Irfan Rashid (2010). Lineament Mapping of north western Kashmir Himalayas using remote sensing. *Journal of Himalayan Ecology and Sustainable Development*, Vol. 5, pp. 67-74
10. **Sumira Nazir Zaz** and Shakil Ahmad Romshoo (2021). Assess the Impact of Landuse/Landcover (LULC) changes on the Hydrology of the Upper Indus Basin (Jhelum) under changing climate. *Climate change Impacts, Mitigation and Adaptation in Developing Countries*. Springer Publication ISSN:2363-62203 (print version),

BOOK CHAPTERS ACCEPTED FOR PUBLICATION:

1. Shakil Ahmad Romshoo, Sumira Nazir Zaz, Farheen Qazi, Shaista Maqbool. Assessing Soil Erosion Risk in the Zaskar Range: Implications of Climate Change. *Journal of Quaternary International* (under review)