

MASOOM REZA

M.Sc. (Remote Sensing & GIS), M.Sc. (Geography), PG Diploma in Mountain Ecosystem & Climate Change, Ph.D Pursuing (Glacial Geomorphology), UGC-NET (Geography)
Assistant Professor (C) - Physical Geography and Remote Sensing

✉ masoomreza@kunainital.ac.in 📞 +91-7055283316 📍 Nainital

🌐 <https://www.kunainital.ac.in/geography-department.php>

🌐 <https://www.linkedin.com/in/masoom-reza-69785961/>

📌 Professional Summary

Working in the domain of Glacial Geomorphology, Biogeography, Application of Remote sensing and GIS in Earth Surface Processes, GIS analysis and mapping etc.

Awards/ Distinctions received

1. Awarded **ICSSR Doctoral Fellowship** in the year 2021 for 2 years (Date of Award: 20-12-2021) – File No. RFD/2021-22/GEN/ENV/300.
2. Stood 2nd rank In **Young Geomorphologists competition award** held in 33rd IGI international conference by Indian Institute of Geomorphologists, University of Allahabad during 02-04 November 2021.
3. Awarded **Young Scientist** by International Geographical Union (**IGU**) for Best Paper (Date of Award:25-11-2022).
4. Received **International Travel Grant** from **SERB-DST, India-** to attend **IAG** – Conference in Cappadocia – Türkiye - File Number: ITS/2023/003001- 12 September, 2023 to 16 September, 2023.
5. Received **Young Geomorphologists Grant** from AIGEO (**Associazione Italiana di Geografia Fisica e Geomorfologia**) to attend X AIGeo Italian Young Geomorphologists Day, 3rd IAG International Young Geomorphologists' Meeting, Venice (Italy), 1-2 March 2024.

Teaching and Research Experience

Sl. No	Name of Employment	Name of employer	Period (From – To)	Duration
1.	*Junior Research Fellow	GBP'NIHE, Almora	Nov 2015 to Dec 2016	1 Year 1month
2.	**Junior Research Fellow	Kumaun University, Nainital	Dec 2016 to April 2019	2 Years 4 Months
3.	Guest Lecturer	Kumaun University, Nainital	Dec 2022 to Jan 2023	1 Month
3.	Assistant Professor (C)	Kumaun University, Nainital	August 2023 to till date.	-

*Worked in DST, New Delhi, sponsored project entitled, "Forest Resources and Plant biodiversity" under NMSHE.

** Worked in DST, New Delhi sponsored project entitled, "Development of the framework for networking programme on Village Information System under NRDMS".

Paper Presented in Conferences – India and Abroad

1. Paper Presented entitled, "Baseline Report of Glaciers and Glacial Lakes of Darma Valley, Uttarakhand" during **33rd Indian Institute of Geomorphologists (IGI)** International Geography Online Conference on the theme Geomorphology and Environmental Sustainability organized by Department of Geography, **University of Allahabad**, Prayagraj from 02–04, December, **2021**
2. Paper Presented entitled, "Glacier's Response over Gradual Increase of Supra-Debris in Valley Glacier, Central Himalaya" **International Geographical Union (IGU)** – Thematic Conference- 2022 organized by Central University of Haryana, Mahendargarh, 24-25th November **2022**.
3. Paper Presented entitled, Impact of Supra Debris on Glacier Movement and surface height: An observation from the Central Himalaya, India" at **International Association of Geomorphologists (IAG)** – Regional Geomorphology Conference at **Cappadocia, Turkiye** during 12-14 September **2023**.
4. Paper Presented entitled, "Evaluating Dynamics and Mapping of the Timberline in the Higher Himalayas of Uttarakhand, India Dynamics" at **35th Indian Institute of Geomorphologists (IGI) Conference on the theme**, organized by Department of Geography, CSRD, Jawaharlal Nehru **University**, New Delhi from 25–27, November **2023**.

List of Publications

- 1) **Masoom Reza** and M.S. Lodhi (2015), *Phrynium Capitatum*, अरुणाचल प्रदेश का एक बहुपयोगी उपयोगी पौधा, हिमप्रभा-राजभासा पत्रिका, GB Pant National Ins. of Himalayan Env. & Sus. Dev.
- 2) **Masoom Reza** and M.S. Lodhi (2016), Forest Cover Monitoring Using Geospatial Technology: a case study of Papumpare, District, Arunachal Pradesh-Book-Human Development and Natural Resource Management, ISBN: 978-93-5056-896-5, Edition: 2018, Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)
- 3) Mahendra S. Lodhi and **Masoom Reza** (2017), Morphometric Analysis of Singki River Catchment using Remote Sensing & GIS: Papumpare, Arunachal Pradesh, International Journal of Advanced Remote Sensing and GIS, Volume 6, Issue 1, pp. 2023-2032, Article ID Tech-694, ISSN 2320 – 0243
- 4) R.C. Joshi and **Masoom Reza** (2018), Building Geodatabase on Village Information System using Geospatial Technology an example of Bajoon Village Central Himalaya, India, IJCRT, VOL. 6, Issue 2, pp-563-577, ISSN No.2320-2882
- 5) Anil Fartiyal, **Masoom Reza**, R.C. Joshi and Ira Tiwari, (2018), Identification of Plant Species and Their Relationship with Altitude and Slope Aspect: A Case Study from Naini Lake Catchment, Central Himalaya. Geography, Environment, Sustainability, Vol.11, No 4, p. 56-66, DOI-10.24057/2071-9388-2018-11-5-56-66
- 6) R C Joshi and **Masoom Reza**, (2018), Physical and Cultural Landscape of Arunachal Himalaya, National Conference Paper on Environment, Resources and Development of the Indian Himalaya, Pp-89-95
- 7) R C Joshi and **Masoom Reza**, (2018), Rural Environment Characteristics: A Case study of the selected central Himalayan Villages (2018), National Geographical Journal of India, Vol. 64 No. 1-2, ISSN No. 0027-9374, .Pp. 144-154
- 8) Mamta Negi, Dr. R.C. Joshi and **Masoom Reza**, (2020), Glacier Retreat and Changing Snow Cover In The Upper Goriganga River Basin, Central Himalaya, ENVIS Bulletin, Himalayan Ecology, Vol.28, Pp. no..-51-54
- 9) **Masoom Reza** and Joshi Ramesh Chandra, (2021), Snow Cover Dynamics and its Spatio-Temporal Distribution in the Central Higher Himalaya of India, Disaster Advances, Vol. 14 (9), Pp-15-22
- 10) R C Joshi and **Masoom Reza**, (2021), Geo-Spatial Database for village resources: A case study of selected villages from the central Himalaya, Advances in Geographical and Environmental Sciences, ISSN No. 978-981-16-7730-4, ISBN No. 978-981-16-7731-1, Springer Nature Singapore Pte Ltd 2022, Page No. 431-441
- 11) Adam Emmer.....,R.C. Joshi.....,**Masoom Reza** et al, (2022), Progress and challenges in glacial lake outburst flood research (2017–2021): a research community perspective, Natural Hazards and Earth System Sciences, European Geosciences Union, DOI: <https://doi.org/10.5194/nhess-2022-143>
- 12) **Masoom Reza** and Joshi, Ramesh Chandra and Nabiyal, Chandra and Negi, Mamta, (2023), Glacier Retreat and Pro Glacial Lake dynamics of Darma Valley, Central Himalaya, India, Bulletin of Geography. Physical Geography Series, No. 25 (2023): 51–62. <http://doi.org/10.12775/bgeo-2023-0009>
- 13) **Masoom Reza** and Joshi Ramesh Chandra, (2023), Glacier's Response Over Gradual Increase of Supra-Debris in Valley Glacier, Central Himalaya, Book – Chapter in Springer, Nature Lte, (**Accepted-In Press**)

Additional Qualification (Certificate course, workshop, training etc.)

1. Participated in National workshop on "Forest Resources and Plant Biodiversity" under National Mission for Sustaining Himalayan Ecosystem Organized at **GB Pant NIHE**, Kosi-Katarmal, Almora (Nov 16-18, 2016).
2. Participated in pre-symposium tutorial on PolSAR and PolInSAR Data Processing and Applications conducted at IIRS, **ISRO**, Dehradun (Dec 5, 2016).
3. Participated in pre-symposium tutorial on UAV Remote Sensing and Applications conducted at IIRS, **ISRO**, Dehradun (Dec 6, 2016).
4. Participated in National Symposium on "Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems" held during December 7 - 9, 2016 at IIRS, **ISRO**, Dehradun.
5. Participated in OFF campus outreach programme in "Microwave Radar Remote Sensing and its Applications" IIRS, **ISRO** (April 10-27, 2017).
6. Participated in OFF campus outreach programme in "RS & GIS Applications in **Water Resource Management**" IIRS, **ISRO** (May 22 to 09 June, 2017).
7. Completed Introductory training on Selecting **Climate Change Projection** Sets for Mitigation, Adaptation and Risk Management Applications during September 19 & 20, 2022, **NASA**
8. Completed Intermediate on Training **Monitoring and Modelling Floods using Earth Observations** during 14 & 21 September 2022, **NASA**
9. Completed Introductory training on **Disaster Assessment using Synthetic Aperture RADAR** during October 19, 20 & 27, 2022, **NASA**
10. Participated in National Workshop on Himalaya 2023 on the theme, **Exploring the Himalayan Frontiers: Geomorphological and Hydrological Aspects** organized by IIT Roorkee and University of Postdam on 18th October 2023.