

DR. VINIT KUMAR, SCIENTIST –‘C’, WIHG, DEHRADUN



Google Scholar Page: <https://scholar.google.com/citations?user=7INaAbAAAAAJ&hl=en>

RESEARCH GROUP: GEOMORPHOLOGY & ENVIRONMENTAL GEOLOGY

FIELD OF SPECIALIZATION: GLACIOLOGY

EDUCATION:

- 2019 Ph.D Geology, D/o Geology, University of Lucknow, Lucknow
- 2012 M.Sc. Geology, D/o Geology, University of Lucknow, Lucknow
- 2009 B.Sc. from P.P.N P.G. College, Kanpur affiliated to CSJM University Kanpur

PROFESSIONAL EXPERIENCE:

- 02/02/2019 – TILL DATE SCIENTIST-‘C’, WIHG, DEHRADUN
- 02/02/2015 – 01/02/2019 SCIENTIST-‘B’, WIHG, DEHRADUN
- Octob.-2012 –Jan. 2015 JRF, D/o Geology, University of Lucknow, Lucknow

VISITING POSITIONS: None

TEACHING EXPERIENCE: None

SERVICES:

a. Supervision/Guidance to Ph.D. Students: None

b. Training:

- Six Dissertations to the students of various Indian Universities/Institutes.
- Six students of various Indian Universities/Institutes are trained under summer/winter training program.

c. Teaching: None

d. Membership: The Indian Science Congress Association

e. Editorial Board: None

f. International/National Seminars/Workshop:

- 3rd National Geo-Scholar Meet-2019, (Co-Convener) at WIHG, Dehradun

g. External Research Fund received & Project Handled: None

h. Member of important Committees: None

AWARDS/FELLOWSHIPS/HONORS/MEMORIAL LECTURES:

a. Awards/Medals/Prizes: None

b. Fellowships: None

c. Memorial Lectures: None

d. Recognition/Honors:

- Qualified CSIR-UGC JOINT National Eligibility Test (NET) with Lectureship having All India Rank (AIR)-27 in Earth, Atmospheric, Ocean and Planetary Science, June, 2012.

COUNTRIES VISITED: None

NATIONAL/INTERNATIONAL (outside CSIR-NGRI) COLLABORATION: None

Inside WIHG Collaborator: Drs Manish Mehta & Anil Kumar

PATENT -

SCHOLARSHIPS AWARDED, GATE

Ph.D. Advisor: Prof. Ajai Mishra, D/o Geology, University of Lucknow, Lucknow.

LIST OF PUBLICATIONS:

(a) SCI Papers

1. Shukla, T., **Kumar, V.**, Mehta, M., Kotlia, B.S., Meenakshi, Mal, S. (2021). Size-dependent chemical depletion of sediments in glacial environments: a case study of Mandakini valley, central Himalaya, India. *Hydrological Sciences Journal*. <https://doi.org/10.1080/02626667.2021.1877706>
2. **Kumar, V.**, Shukla, T., Mehta, M., Dobhal, D.P., Bisht, M.P.S., Nautiyal, S. (2020). Glacier changes and associated climate driver for the last three decades, Nanda Devi

region, Central Himalaya, India. *Quaternary International*.
<https://doi.org/10.1016/j.quaint.2020.06.017>

3. Singh, A.K., Kumar, D., **Kumar, V.**, Singh, D.S. (2020). Study of temporal response (1976-2019) and associated mass movement event (during 2017) Meru glacier, Bhagirathi valley, Garhwal Himalaya, India. *Quaternary International*, 565, 12-21.
4. Shukla, A., Garg, S., Mehta, M., **Kumar, V.**, Shukla, U. K. (2020). Temporal inventory of glaciers in the Suru sub-basin, western Himalaya: impacts of regional climate variability. *Earth System Science Data*, 12(2), 1245-1265.
5. **Kumar, V.**, Shukla, T., Mishra, A., Kumar, A., Mehta, M. (2020). Chronology and climate sensitivity of the post-LGM glaciation in the Dunagiri valley, Dhauliganga basin, Central Himalaya, India. *Boreas*, 49, 594-614.
6. Garg, S., Shukla, A., Mehta, M., **Kumar, V.**, Shukla, U.K. (2019). On geomorphic manifestations and glaciation history of the Kangriz glacier, western Himalaya. *Himalayan Geology*, 40(2), 115-127.
7. Shukla, T., **Kumar, V.**, Mehta, M. (2019). Response of the Himalayan glacial cycles to multiple equilibrium of climate system: A review. *Quaternary International*, 507, 4-14.
8. Garg, S., Shukla, A., Mehta, M., **Kumar, V.**, Shruti, Shukla, U.K. (2018). Field evidences showing rapid frontal degeneration of the Kangriz glacier, western Himalayas, Jammu & Kashmir. *Journal of Mountain Science*, 15 (6), 1199-1208.
9. **Kumar, V.**, Mehta, M., Mishra, A., Trivedi, A. (2017). Temporal fluctuations and frontal area change of Bangni and Dunagiri glaciers from 1962 to 2013, Dhauliganga Basin, central Himalaya, India. *Geomorphology*, 284, 88-98.
10. Trivedi, A., **Kumar, V.**, Mishra, A., Awasthi, R. (2017). Modern palynological census of Dunagiri Valley: Distribution and its relationship with past vegetation and climate. *Palaentological Society of India*, 62 (2), 83-89.

(b) **Non-SCI Articles:** None

(c) **Chapter in Books:**

- Shukla, A., Garg, S., **Kumar, V.**, Mehta, M., Shukla, U.K. Sensitivity of Glaciers in Part of the Suru Basin, Western Himalaya to Ongoing Climatic Perturbations. In *Himalayan Weather and Climate and their Impact on the Environment*; Springer International Publishing: New York, NY, USA, 2020; pp. 351–377.

(d) **Books-authored/Edited volume:** None

(e) **Abstract volume:**

- P.K. Garg, Aparna Shukla, **Vinit Kumar**, Manish Mehta (2020). “*Debris cover growth, ensuing changes in morphology and impact on glacier processes at Pensilungpa Glacier, western Himalaya, India*”. EGU General Assembly 2020, 04-08 May-2020, doi.org/10.5194/egusphere-egu2020-382.
- **Vinit Kumar**, Manish Mehta, Aparna Shukla, Anil Kumar, Siddhi Garg (2019). “*Reconstruction of palaeoglaciation and Equilibrium Line Altitude (ELA) changes in the Suru River Basin, Western Himalaya*”. International Workshop on Climate Change and Extreme Events in the Himalayan region, April 18-20, IIT Mandi, Himachal Pradesh. (Oral Presentation)
- **Vinit Kumar**, Aparna Shukla, Manish Mehta, Anil Kumar (2018). “*Style and timing of Quaternary glaciation in a semi-arid region: a case study from the Suru river basin, wester Himalaya, India*”. National Conference on Earth system Science. May 16-18, WIHG, pp. 54. (Poster Presentation)
- **Vinit Kumar**, Manish Mehta, Aparna Shukla (2018). “*Glacial landforms and history of advance and retreat of Pensilungpa and Durung Drung glaciers, Suru and Doda River basins, Ladakh Himalaya*”. National Conference on climate change and Natural Resources. Feb 20-21, Lucknow University, pp. 64. (Oral Presentation)
- Aparna Shukla, Manish Mehta and **Vinit Kumar** (2017). “*Changes in dynamics of Pensilungpa Glacier, western Himalaya, over the past two decades*”. The 38th Asian Conference of Remote Sensing (ACRS-2017): Space Applications Touching Human Lives, Oct. 23-27, 2017, New Delhi, India, Abstract ID-1000, pp – 681.
- **Vinit Kumar**, S.K. Yadav, Ajai Mishra and Anjali Trivedi (2015). “*Study of snout fluctuation and geomorphology of Dunagiri Glacier linked with pollen deposition pattern in the Dunagiri Valley, Uttarakhand Himalaya, India*”. 30th Himalaya-Karakoram-Tibet (H-K-T) workshop, Dehradun, India, October 6-8, 2015, pp- 79. (Poster Presentation)

(f) **Reports/Other Documents:** None

(g) **Articles in Proceeding Volumes:** None