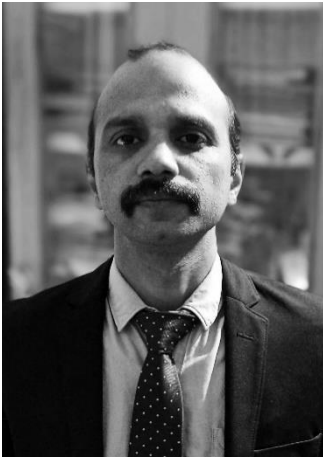




Faculty Details proforma for DU Web-site

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Designation		Assistant Professor				
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Web-Page		https://www.researchgate.net/profile/Naresh_Rana https://scholar.google.co.in/citations?user=b0GFsxsAAAJ&hl=en				
Educational Qualifications						
Degree		Institution			Year	
Ph.D		HNB Garhwal Univeristy Srinagar Garhwal			2014	
M.Sc		HNB Garhwal Univeristy Srinagar Garhwal			2004	
B.Sc		HNB Garhwal Univeristy Srinagar Garhwal			2002	
Career Profile						
April 2021-present: <i>Assistant Professor</i> , Dept. Of Geology, University of Delhi March 2020-April 2021: <i>Assistant Professor</i> , HNB Garhwal University Dec 2015-Feb 2020: <i>Project Scientist C</i> , National Center for Seismology, MoES, New Delhi March 2015-Nov 2015: <i>Principal Investigator</i> , DST Project. HNB Garhwal University Sept 2014-Dec 2014: <i>Research Associate</i> , Dept. Of Geology, HNB Garhwal University April 2012-Aug 2014: <i>Senior Research Fellow</i> , Dept. Of Geology, HNB Garhwal University Nov 2009-Nov 2010: <i>Guest Scientist (Researcher)</i> , University of Ferrara, Italy May 2007-Oct 2009: <i>Junior/Senior Research Fellow</i> , Dept. Of Geology, HNB Garhwal University April 2005-Nov 2006: <i>Research Fellow</i> , Dept. Of Geology, HNB Garhwal University						
Administrative Assignments						

NIL
Areas of Interest / Specialization
Active tectonics; Geomorphology; Geohazards; Himalayan Tectonics
Subjects Taught
Geomorphology
Time table of the subjects taught during the current semester
Research Guidance
NIL
Publications Profile
<p>Peer reviewed journals-</p> <p>(1) Wadhawan, M., Rana, N., Gahalaut, V., Singh, M., Singh, K., Suresh, G., Mishra, O. P., Joshi, A.K., Kulkarni, A.V., Singh, M., Das, D. K., 2021. Monsoonal rainfall induced shallow earthquake Swarm in the Amravati district of the central India. Journal of Earth System Science 130. https://doi.org/10.1007/s12040-020-01511-z</p> <p>(2) Srivastava, P. Kumar, A., Singh, R., Deepak, O., Kumar, A. M., Ray, Y., Phartiyal, B., Chahal, P., Sharma, P., Ghosh, R., Kumar, N., Agnihotri, R., 2020. Rapid lake level fall in Pangong Tso (lake) in Ladakh, NW Himalaya: a response of late Holocene aridity. Current Science 119, 229- 231.</p> <p>(3) Sharma, V., Wadhawan, M., Rana, N., Gahalaut, V.K. et al., 2020. A long duration non-volcanic earthquake sequence in the stable continental region of India: The Palghar swarm. Tectonophysics 779, https://doi.org/10.1016/j.tecto.2020.228376</p> <p>(4) A. D. Shukla, S. Sharma, N. Rana, P. Bisht, N. Juyal 2020. Optical chronology and climatic implication of glacial advances from the southern Ladakh Range, NW Himalaya, India. Palaeog., Palaeoclim., Palaeoeco. 539. https://doi.org/10.1016/j.palaeo.2019.109505</p> <p>(5) N. Rana, S. Sharma, S. Nawaz Ali, S. Singh, A. D. Shukla. 2019. Investigating the sensitivity of glaciers to climate variability since the MIS-2 in the upper Ganga catchment (Saraswati valley), Central Himalaya. Geomorphology 346,106854.</p> <p>(6) S. P. Sati, S. Sharma, N. Rana, H. Dobhal and N. Juyal. (2019). Environmental implications of Pancheshwar dam in Uttarakhand (Central Himalaya), India. Current Science 116, 1483-1489</p> <p>(7) Yadav, R.K., Gahalaut, V.K., Bansal, A.K., Sati, S.P., Catherine, J., Gautam, P., Kumar, K., Rana, N., 2019. Strong seismic coupling underneath Garhwal–Kumaun region, NW Himalaya, India. Earth and Planetary Science Letters 506, 8–14.</p>

- (8) Bhushan, R., Sati, S.P., **Rana, N.**, Shukla, A.D., Mazumdar, A.S., Juyal, N., 2017. High-resolution millennial and centennial scale Holocene monsoon variability in the Higher Central Himalayas. *Palaeogeog., Palaeoclim., Palaeoeco.*, <http://dx.doi.org/10.1016/j.palaeo.2017.09.032>
- (9) Srivastava, P., Kumar, A., Chaudhary, S., Meena, N., Sundriyal, Y.P., Rawat, S., **Rana, N.**, Perumal, R.J., et al., 2016. 8000-year monsoonal record from Himalaya revealing reinforcement of tropical and global climate system since mid-holocene. *Scientific Reports*.
- (10) **Rana, N.**, Sharma, S., 2017. Comment on: "Morphotectonic records of neotectonic activity in the vicinity of North Almora Thrust Zone, Central Kumaun Himalaya", *Geomorphology* (285), 272–286. *Geomorphology* 301, 147-152.
- (11) Gautam, P.K., Gahalaut, V.K., Prajapati, S.K., Kumar, N., Yadav, R.K., **Rana, N.**, Dabral, C.P., 2017. Continuous GPS measurements of crustal deformation in Garhwal-Kumaun. *Quaternary International* 262, 124-129.
- (12) Poonam, **Rana, N.**, Champati ray, P.K., Bisht, P., Bagri, D.S., Wasson, R.J., Sundriyal, Y. 2016. Identification of landslide-prone zones in the geomorphically and climatically sensitive Mandakini valley, (central Himalaya), for disaster governance using the Weights of Evidence method. *Geomorphology* 284, 41-52.
- (13) Bisht, P., Ali, S.N., **Rana, N.**, Singh, S., Poonam, Sundriyal, Y.P., Bagri, D.S., Juyal, N. 2016. Pattern of Holocene glaciation in the monsoon-dominated Kosa Valley, central Himalaya, Uttarakhand, India. *Geomorphology* 284, 130-141.
- (14) Srivastava, P., Kumar, A., Chaudhary, S., Meena, N., Sundriyal, Y.P., Rawat, S., **Rana, N.**, Perumal, R.J., et al., 2016. Paleofloods records in Himalaya. *Geomorphology* 284, 17-30.
- (15) **N. Rana**, S.P. Sati, Y.P. Sundriyal, N. Juyal. 2016. Genesis and implication of soft-sediment deformation structures in high-energy fluvial deposits of the Alaknanda Valley, Garhwal Himalaya, India. *Sedimentary Geology* 344, 263–276.
- (16) **N. Rana**, Sunil Singh, Y.P. Sundriyal, N. Juyal. 2016. Interpreting the geomorphometric indices for neotectonic implications: an example of Alaknanda valley, Garhwal Himalaya, India. *Jour. Earth System Science* 125, 841–854.
- (17) Y.P. Sundriyal, A.D. Shukla, **N. Rana**, R.J. Perumal, P. Srivastava, L.S. Chamyal, S.P. Sati, N. Juyal. 2015. Terrain response to extreme rainfall event of June 2013, evidence from the Alaknanda and Mandakini river Valleys, Garhwal Himalaya, India. *Episodes* 38 (3), 119-188.
- (18) S.P. Sati, S. N. Ali, **N. Rana**, F. Bhattacharya, R. Bhushan, A.D. Shukla, Y.P. Sundriyal, N. Juyal. 2014. Timing and extent of Holocene glaciation in monsoon dominated Dunagiri valley (Bangni glacier), Central Himalaya, India. *Journal of Asian Earth Sciences* 91, 125-136.
- (19) **N. Rana**, Sunil Singh, Y.P. Sundriyal, Navin Juyal. 2013. Recent and past floods in Alaknanda valley: causes and consequences. *Current Science* 105 (9), 1209-1213.
- (20) **N. Rana**, F. Bhattacharya, N. Basavaiah, R.K. Pant, Navin Juyal., 2013. Soft sediment deformation structures and their implications for the Late Quaternary seismicity on the South Tibetan Detachment System, Central Himalaya (Uttarakhand), India. *Tectonophysics* 592, 165-175.

<p>(21) N. Rana, Y.P. Sundriyal, N. Juyal. 2012. Recent cloudburst induced landslides around Okhimath, Uttarakhand. <i>Current Science</i> 103 (12), 1389-1390.</p> <p>(22) S. P. Sati, Y.P. Sundriyal, N. Rana, S. Dangwal. 2011. Recent landslides in Uttarakhand: Nature's Furry or Human Folly. <i>Current Science</i> 100, 1617-1620.</p> <p>(23) N. Juyal , Y.P. Sundriyal, N. Rana, S. Chaudhary and A.K. Singhvi. 2010. Late Quaternary fluvial aggradation and incision in the monsoon dominated Alaknanda valley, Central Himalaya, Uttarakhand, India. <i>Journal of Quaternary Science</i> 25, 1293-1304.</p> <p>(24) A.K. Tyagi, S. Chaudhary, N. Rana, S.P. Sati, N. Juyal. 2009. Identifying areas of differential uplift using steepness index in the Alaknanda basin, Garhwal Himalaya, Uttarakhand. <i>Current Science</i> 97 (10), 1473-1477.</p> <p>(25) N. Rana, S.P. Sati, Y.P. Sundriyal, M. M. Doval, N. Juyal. 2007. Socio-economic and Environmental Implication of the Hydroelectric Project in Uttarakhand Himalaya, India. <i>Journal of Mountain Science</i> 4 (4), 344- 353.</p> <p>(26) H.C. Nainwal, M. Chaudhary, N. Rana, B.D.S. Negi, R.S. Negi, N. Juyal and A.K. Singhvi. 2007. Chronology of the Late Quaternary Glaciation around Badrinath : Preliminary observations. <i>Current Science</i> 93 (1), 90-96.</p>
Publications in the Last one year
<p>(1) Rana, N., Sharma, S., Sundriyal, Y. et al. A preliminary assessment of the 7th February 2021 flashflood in lower Dhaul Ganga valley, Central Himalaya, India. <i>J Earth Syst Sci</i> 130, 78 (2021). https://doi.org/10.1007/s12040-021-01608-z</p> <p>(2)) Rana, N., Sundriyal, Y et al. Hydrological characteristics of 7 February 2021 Rishi Ganga flood: Implication towards understanding flood hazards in Higher Himalaya (Accepted in <i>Journal of Geological Society of India</i>)</p>
Conference Organization/ Presentations (in the last three years)
NA
Research Projects (Major Grants/Research Collaboration)
<p>Name of Project: Assessment of Impact of Climate Change on the Geodiversity in Uttarakhand Himalaya for five most disaster-prone Districts of Uttarakhand including vulnerability and Risk Assessment: Implication for Sustainable Development and Policy Making</p> <p>Position in Project: Co-Principal Investigator</p> <p>Funding Agency: DST</p>
Awards and Distinctions
<ul style="list-style-type: none"> • Fellowship for the Young Indian Researcher, University of Ferrara, Italy. 2009. • UGC-CSIR NET 2011 • Foreign Travel Grant by Dept. Of Science and Technology, Govt. Of India. 2013. • Startup Grant for Young Scientist (DST, New Delhi). 2014.

- Best performance award: Summer Training Course for Slope Land disaster Reduction, NT University, Taipei, Taiwan.2016.

Association With Professional Bodies

Reviewing:

- Geomorphology, Elsevier.
- Quaternary International, Elsevier.
- Journal of Paleogeography, Elsevier.
- Himalayan Geology, Wadia Institute of Himalayan Geology
- Catena, Elsevier.
- Journal of Earth System Science, Springer

Other Activities

Invited Talks:

- District Disaster Management Authority, Una, Himachal Pradesh.
- INSPIRE Internship Science Camps: HNB Garhwal University, Uttarakhand.
- DST sponsored training, Dept. of Geology, HNB Garhwal University, Uttarakhand.



Signature of Faculty Member