CURRICULUM VITAE

Name : **REYAZ AHMAD DAR**
Place of Birth : **KASHMIR, INDIA**
Present Destination : Department of Earth Sciences, University of Kashmir, Srinagar - 190006, J&K, India
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Google Scholar: **https://scholar.google.co.in/citations?user=fWJDOzoAAAAJ&hl=en**
Total Citations: **1058** **h-index-15,** **i10-index-16**
(as of April 2024)

Qualifications

Degree/award	Year	Discipline/field	Organisation
Ph. D	**2014**	**Geology**	University of Kashmir
M Sc	**2007**	**Applied Geology**	University of Kashmir
B Sc	**2005**	**Geology** (science)	University of Kashmir
NET-JRF	**2008**	**Earth Sciences**	CSIR+UGC

Appointment(s)/positions(s)

Position held	Organisation	Duration
Research Fellow	ISRO, INDIA	2007-2009
JRF/Ph. D Scholar	University of Kashmir	2010-2011
SRF/Ph. D Scholar	University of Kashmir	2012-2014
Research Associate	AISRF (Joint Indo-Australian R. Project)	2014-2015
Assistant Professor	Department of Earth Sciences, Uni. of Kashmir	Dec. 2015.....

FELLOWSHIPS: **CSIR-JRF and SRF Fellowships during Ph. D program**

AREA OF SPECIALIZATION: **Tectonic-Geomorphology, Quaternary Geology, Paleoclimate; Phytoliths**

Peer Reviewed International Journal Publications

1. Romshoo, S.A., Nabi, B. and **Dar, R.A.,** 2024. Influence of debris cover on the glacier melting in the Himalaya. **Cold Regions Science and Technology**, p.104204.
2. Shah, R.A., **Dar, R.A**. and Romshoo, S.A., 2024. Paleoclimatic reconstruction of the Karewa deposits of Kashmir Valley, northwest Himalaya: A review. **Quaternary International.**

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3. Shah, R.A., Paul, O.J., **Dar, R.A.** and Romshoo, S.A., 2024. Impact of climate change and anthropogenic activities on lacustrine ecosystems of the Kashmir Valley, NW Himalaya, India. **Environmental Quality Management**.
4. Bhat, I.M., Chauhan, H., Ahmad, T., Tanaka, T., Bickle, M., Asahara, Y., Chapman, H. and **Dar, R.A.,** 2024. Fate of an oceanic plate in the Neo-Tethys intra-oceanic subduction system: Evidence from elemental and Rb/Sr–Sm/Nd isotopic systematics. **Gondwana Research**, 125, pp.266-283.
5. Bhat, I.M., Chauhan, H., Ahmad, T. and **Dar, R.A.,** 2023. Geochemistry and petrogenesis of ophiolitic rocks from the Indus Suture Zone (ISZ), Ladakh Himalaya: insights for depleted mantle beneath an intra-oceanic island arc complex. **International Geology Review**, 65(21), pp.3329-3347.
6. Lone, A.M., **Dar, R.A.** and Romshoo, S.A., 2023. Paleoclimate, productivity and anthropogenic eutrophication: Drawing inferences from paleolimnological proxy records of the Kashmir Valley, northwestern Himalaya. **Quaternary Science Advances**, p.100128.
7. Qader, W., Mir, S.H., Meister, J., **Dar, R.A.,** Madella, M. and Rashid, I., 2023. Sedimentological perspective on phytolith analysis in palaeoecological reconstruction. **Earth-Science Reviews**, p.104549.
8. Qader, W., **Dar, R.A.** and Rashid, I., 2023. Phytolith particulate matter and its potential human and environmental effects. **Environmental Pollution**, 327, p.121541.
9. Mir, R.A., Ahmed, R., Hussain, M., Bukhari, S.K., Ahmed, P., **Dar, R.A.,** Ahmad, S.T., Wani, G.F., Ahad, A.I., Rather, A.F. and Bhat, I.A., 2023. Causes, concerns and hazards of sinkhole formation in Brengi stream catchment of Upper Jhelum basin, Kashmir Himalaya. **Environment, Development and Sustainability**, pp.1-28.
10. Mir, J.A., Bhat, I.M., Murtaza, K.O., Qader, W. and **Dar, R.A., 2023**. Geological Heritage of the Kashmir Valley, North-Western Himalaya, India. **Geoheritage**, 15(1), p.26.
11. Rehman, I.U., Malik, M.A., Rashid, I., Sheergojri, I.A. and **Dar, R.A.,** 2023. Silicon fertilization increases carbon sequestration by augmenting phytOC production in wheat**. Journal of Soil Science and Plant Nutrition**, 23(1), pp.1149-1155.
12. Bhat, I.M., Chauhan, H., **Dar, R.A.** and Ahmad, T., 2023. Ladakh Himalayan Ophiolites (LHO): A Geological Heritage of Northwestern India. **Geoheritage**, 15(1), p.2.

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13. Paul, O.J., Romshoo, S.A., **Dar, R.A.,** Kumar, P., Dhal, S.P. and Chopra, S., **2022**. Paleo-glacial reconstruction of the Thajwas Glacier in the Kashmir Himalaya using ^{10}Be cosmogenic radionuclide dating. **Geoscience Frontiers**, p.101432. (**IF: 7.48**)

14. Mir, J.A., **Dar, R.A.,** Vinnepand, M., Laag, C., Rolf, C. and Zeeden, C., **2022**. Environmental reconstruction potentials of Loess-Paleosol-Sequences in Kashmir through high-resolution proxy data. **Palaeogeography, Palaeoclimatology, Palaeoecology,** p.111100. (**IF: 3.56**)

15. Nabi, B., Romshoo, S.A. and **Dar, R.A., 2022.** Debris-cover impact on glacier melting in the Upper Indus Basin. **Polar Science**, p.100867. (**IF: 2.35**)

16. Paul, O.J., **Dar, R.A.** and Romshoo, S., **2022.** Cirque Development in the Pir Panjal Range of North Western Himalaya, India. **CATENA,** 213, p.106179. (**IF: 6.36**)

17. **Dar, R.A.,** Murtaza, K.O., Paul, O.J., Nisa, A.U., Akhter, N., Dar, F.A. and Mir, R.A., 2022. River response to melting cryosphere since late quaternary in the pir panjal range of NW Himalaya. **Frontiers in Water**, 4, p.879001.

18. Zeeden, C., Mir, J.A., Vinnepand, M., Laag, C., Rolf, C. and **Dar, R.A., 2021**. Local mineral dust transported by varying wind intensities forms the main substrate for loess in Kashmir. **E&G Quaternary Science Journal,** 70(2),191-195.

19. Joya, E., Bromand, M.T., Murtaza, K.O. and **Dar, R.A., 2021**. Current glacier status and ELA changes since the Late Pleistocene in the Hindu Kush Mountains of Afghanistan. **Journal of Asian Earth Sciences, 219,** 104897. (**IF: 3.37**)

20. Paul, O.J., **Dar, R.A.** and Romshoo, S.A., **2021**. Paleo-glacial and paleo-equilibrium line altitude reconstruction from the Late Quaternary glacier features in the Pir Panjal Range, NW Himalayas. **Quaternary International**. (**IF: 2.45**)

21. Murtaza, K.O., **Dar, R.A.,** Paul, O.J., Bhat, N.A. and Romshoo, S.A., **2021.** Glacial geomorphology and recent glacial recession of the Harmukh Range, NW Himalaya. **Quaternary International**, 575, 236-248. (**IF: 2.45**)

22. **Dar R.A.,** and Zeeden, C. (**2020**). Loess-Palaeosol Sequences in the Kashmir Valley, NW Himalayas: A Review. **Front. Earth Sci.** 8:113. doi: 10.3389/feart.2020.00113 **(IF: 3.66)**

23. Rashid, Irfan, Showkat H. Mir, Débora Zurro, **Reyaz A. Dar,** and Zafar A. Reshi, (2019). "Phytoliths as proxies of the past." **Earth-Science Reviews**, 194, 234-250. doi.org/10.1016/j.earscirev.2019.05.005 **(IF: 12.03)**

24. **Reyaz Ahmad Dar,** Mir, Sareer A. Mir. Shakil Ahmad Romshoo: Influence of geomorphic and anthropogenic activities on channel morphology of River Jhelum in

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Kashmir Valley, NW Himalayas. **Quaternary International, 2018**. doi.org/10.1016/j.quaint.2018.12.014 (**IF: 2.45**)

25. Shakil A. Romshoo, Sadaf Altaf, Irfan Rashid and **Reyaz A. Dar** (**2018**). Climatic, Geomorphic and Anthropogenic Drivers of 2014 Kashmir Extreme Flooding in Kashmir, India. **Geomatics, Natural Hazards and Risk**, Vol. 9 (1): 224-248 (**IF: 3.52**)

26. **Reyaz Ahmad Dar,** Omar Jaan, Khalid Omar Murtaza, Shakil Ahmad Romshoo: Glacial-geomorphic study of the Thajwas glacier valley, Kashmir Himalayas, India. **Quaternary International** 05/**2017**; http://dx.doi.org/10.1016/j.quaint.2017.05.021. (**IF: 2.45**)

27. Shakil A. Romshoo, **Reyaz Ahmad Dar**, Khalid Omar Murtaza, Irfan Rashid, Farooq A. Dar: Hydrochemical characterization and pollution assessment of groundwater in Jammu Siwaliks, India. **Environmental Monitoring and Assessment 2017**; 189:122, DOI 10.1007/s10661-017-5860-3. (**IF: 2.51**)

28. **Reyaz A. Dar,** Shakil A. Romshoo, Rakesh Chandra, Ishtiaq Ahmad: Response to ‘‘No major active backthrust bounds the Pir Panjal Range near Kashmir basin, NW Himalaya” by Shah. **Journal of Asian Earth Sciences** 123 (**2016**) 58–60. (**IF: 3.37**)

29. Denis Stojanovic, Jonathan C. Aitchison, Jason R. Ali, Talat Ahmad, **Reyaz Ahmad Dar:** Paleomagnetic investigation of the Early Permian Panjal Traps of NW India; regional tectonic implications. **Journal of Asian Earth Sciences** 115 (**2016**) 114–123. (**IF: 3.37**)

30. **Reyaz Ahmad Dar,** Rakesh Chandra, Shakil Ahmad Romshoo and Nazia Kowser: Micromorphological investigations of the Late Quaternary loess-paleosol sequences of the Kashmir Valley, India. **Journal of Asian Earth Sciences** 111(**2015**) 328-338. DOI:10.1016/j.jseaes.2015.07.004. (**IF: 3.37**)

31. Shakil Ahmad Romshoo, **Reyaz Ahmad Dar,** Irfan Rashid, Asif Marazi, Nahida Ali, Sumira Zaz: Implications of Shrinking Cryosphere under Changing Climate on the Streamflows in the Lidder catchment in the Upper Indus Basin, India [In Press]. **Arctic Antarctic and Alpine Research** 06/**2015**; 47(3). (**IF: 2.5**)

32. **Reyaz Ahmad Dar,** Rakesh Chandra, Shakil Ahmad Romshoo, Mahjoor Ahmad Lone, Syed Masood Ahmad: Reply to the comment by Shah on “Isotopic and micromorphological studies of Late Quaternary loess-paleosol sequences of the Karewa Group: inferences for palaeoclimate of Kashmir Valley”. **Quaternary International** 06/**2015**; 374:200-202. DOI:10.1016/j.quaint.2015.03.029. (**IF: 2.45**)

33. **Reyaz Ahmad Dar,** Rakesh Chandra, Shakil Ahmad Romshoo, Mahjoor Ahmad Lone, Syed Masood Ahmad: Isotopic and micromorphological studies of Late

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Quaternary loess-paleosol sequences of the Karewa Group: Inferences for palaeoclimate of Kashmir Valley. **Quaternary International** 10/**2014**; 371(2015):122-134. DOI:10.1016/j.quaint.2014.10.060. (**IF: 2.45**)

34. **Reyaz Ahmad Dar**, Shakil Ahmad Romshoo, Rakesh Chandra, Ishtiaq Ahmad: Tectono-geomorphic study of the Karewa Basin of Kashmir Valley. **Journal of Asian Earth Sciences** 10/**2014**; 92:143-156. DOI:10.1016/j.jseaes.2014.06.018. (**IF: 3.37**)
35. **Reyaz Ahmad Dar,** Irfan Rashid, Shakil Ahmad Romshoo, Asif Marazi: Sustainability of winter tourism in a changing climate over Kashmir Himalaya. **Environmental Monitoring and Assessment 2013**; 186(4). DOI:10.1007/s10661-013-3559-7. (**IF: 2.51**)
36. **Reyaz Ahmad Dar,** Rakesh Chandra, Shakil Ahmad Romshoo: Morphotectonic and Lithostratigraphic Analysis of Intermontane Karewa Basin of Kashmir Himalayas, India. **Journal of Mountain Science** 02/**2013**; 10:1-15. DOI:10.1007/s11629-013-2494 (**IF: 2.07**)

OTHERS (National/Regional Publications)

37. **Reyaz Ahmad Dar,** Shakil Ahmad Romshoo: Estimating Daily Stream Flow in the Glacierized Mountainous Kashmir Himalayan Basin. **Journal of Research and Development 2012**, 12, 113-130. (**ISSN 0972-5407**)

BOOK CHAPTERS

1. **Dar, R.A.,** Paul, O.J., Murtaza, K.O. and Romshoo, S.A., 2021. 9 Late Quaternary Glacial Geomorphology of Kashmir Valley, NW Himalayas: A Case Study of the Sind Basin. **Water, Cryosphere, and Climate Change in the Himalayas: A Geospatial Approach**, p.145.
2. **Dar, R.A.,** Manhas, Y., Murtaza, K.O., Qader, W., Mir, J.A. and Paul, O.J., 2024. Response of the River Jhelum to Active Tectonics, NW Himalaya. In Rivers of India: Past, Present and Future (pp. 53-67). Cham: **Springer International Publishing.**

PROFESSIONAL COURSES

Attended **Field School in Advanced Structural Geology with Australian Geologists** held in the hills around Manali, Himachal Pradesh, in October 2012, for duration of **three weeks.**

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Organized field trip for the **Finish Geologists to North Western Himalayas and Karakoram** from **9-18th June, 2012**.

Organized the **Indo-French field workshop on "Himalayan Tectonics**" sponsored by Centre Franco-Indien pour la Promotion de la Recherche A'vancee (CEFIPRA), New Delhi, India from **20th to 29th July, 2014**.

Attended **ANUX Summer School** organized by the **Research School of Earth Sciences (RSES), Australian National University, Australia** for duration of six weeks from 2nd November-11th December, 2015.

Attended, **IHCAP 'Teach the Teachers workshop' on glaciology and related areas**, at the Universities of **Fribourg and Zurich**, Switzerland from June 30 to July 6, 2016.

Participated in the **Applied Glaciology Training and Capacity Building Workshop o**rganized by the Department of Geography, Shaheed Bhagat Singh College, **University of Delhi**, under the Indian Himalayas Climate Adaptation Programme (IHCAP), February 2-5, 2016.

Attended **four week, 73rd General Orientation Course organized by UGC-Human Resource Development Centre, University of Kashmir**, Srinagar from 06th December, 2016 to 4th January, 2017.

Participated in the field training and delivered a lecture in the **mini HKT** workshop organized by the **Research School of Earth Sciences (RSES), Australian National University, Australia** from 2nd April to 11th April, 2017.

Organized the field work in the area around Lake Tso Morari, Ladakh for USA geologists (from Washington State University and Boise State University) from 24-July-2018-6-August-2018.

INTERNATIONAL COLLABORATIONS

Dr. Reyaz is collaborating with the Leibniz Institute for Applied Geophysics, Hannover, Germany. The research focuses on the Quaternary Loess deposits of Kashmir Valley.

CURRENT SCIENTIFIC RESEARCH PROJECTS (PI)

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MoES sponsored project: ‘Phytoliths as quantitative indicators for the reconstruction of the past climate in the Kashmir Valley, India’.

CURRENT SCIENTIFIC RESEARCH PROJECTS (Co-PI)

‘Centre of Excellence for Glaciological Research in Western Himalaya’, Sponsored by Department of Science and Technology (DST).

RESEARCH GUIDANCE

Dr. Reyaz is currently supervising five students for their Ph.D. work. To date, one of his scholars has received a doctorate.

Reyaz Ahmad Dar

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