

CURRICULUM VITAE

Name: Dr. Suhail Ahmad Lone
Parentage: Mushtaq Ahmad Lone
Date of Birth: 15-05-1990
Place of Birth: Kashmir, India
Official Address: Department of Earth Sciences,
 University of Kashmir, Srinagar, J&K India. 190006.
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Current Position: Assistant Professor (C)



Qualifications

| Degree/Award | Year | Discipline/Field | Board/University |
|------------------|------|---|-----------------------|
| Ph.D. | 2020 | Applied Geology | University of Kashmir |
| M.Sc. | 2014 | Applied Geology | University of Kashmir |
| B.Sc. | 2011 | English, Chemistry, Geology, Geography. | University of Kashmir |
| 12 th | 2008 | English, Chemistry, Physics, Botany, Zoology, Evs. | JKBOSE |
| 10 th | 2006 | English, Urdu, Maths, Science, Social Science | JKBOSE |

<https://www.researchgate.net/profile/Suhail-Lone-2>

<https://scholar.google.com/citations?user=aSojZDUAAAJ&hl=en>

Professional Experience

- ✓ **06/October/2020 to 26/March/2021:** Guest Faculty, Department of Earth Sciences, University of Kashmir.
- ✓ **27/March 2021, till date:** Assistant Professor (Contractual) Department of Earth Sciences, University of Kashmir.

Ph.D Topic

Hydrogeochemical and isotopic evidences of groundwater evolution and recharge in Indus basin Ladakh (J&K) india.

Awards/Honors

- ✓ Young Researcher award (Insc 2020).
- ✓ INSPIRE Fellowship award (2015-2020) DST (Department of Science and Technology).
- ✓ Gold Medalist (Batch-2012).

Membership

- ✓ [American Geophysical Union \(AGU: 1302403\)](#)
- ✓ [European Geoscience Union \(EGU: 666602\)](#)
- ✓ [International Association of Hydrologists \(IAH: 143438\)](#)

Workshops/Training Programmes

- ✓ Invited talk on “Contrasting co-occurrence of Arsenic and Fluoride in Himalayan groundwater aquifers of Upper Indus River Basin” during the 7 days National Training Programme organized by Department of Earth Sciences, University of Kashmir from August 28, 2023 to September 03, 2023.
- ✓ Two days National Workshop on Impact of climate change on water resources of Upper Indus River Basin. A UIBN Initiative. 1st and 2nd May 2023.
- ✓ 3-day National programme on Advances in Earth and Environmental Geoscience organized by Department of Geophysics Institute of Science Banaras Hindu University on 10 - 11 March 2022.
- ✓ 3-day International Ecohydrology symposium organized by IIT Roorkee on 28 Feb to 1st March 2022.
- ✓ 3-day National training programme on analytical chemistry conducted by Geological Society of India 18-20 February 2021.
- ✓ Week long training program on SWAT Modelling conducted by National Institute of Hydrology from 21 to 25 September 2020.

- ✓ Worked as a member in National programme on groundwater security of Indus basin (Ladakh) in present and future climate and land use scenario.
- ✓ Worked as a member in National programme of Spring Rejuvenation in District Pulwama South Kashmir.
- ✓ Attended a weeklong training programme on ICP-OES and ICP-MS at Indian Institute of Technology Kharagpur (IIT KGP).
- ✓ Carried out the multiple fieldworks across Ladakh Division regarding Geology, Hydrogeology from 2015 to 2020.
- ✓ Carried out the geological fieldwork for three weeks across Ladakh, 2017.
- ✓ Carried out master's thesis entitled, "mapping, the glacial geomorphological features of the West Liddar, NW- Himalayas" 2013-14.
- ✓ Carried out fieldwork for two weeks along greater Himalayan range for mapping the glacio-geomorphic features of Kolahoi glacial valley, 2013.
- ✓ Attended one-month fieldwork on Archean geology in and around Bangalore and Mysore city of Karnataka state, 2013.
- ✓ Attended a weeklong geological fieldwork in Kargil Himalayas Ladakh, 2012.
- ✓ Attended a weeklong geological fieldwork in Pahalgam, 2011.

Peer Reviewer

- ✓ Journal of Geological Society of India
- ✓ Journal of Earth System Sciences
- ✓ Journal of Environmental Management
- ✓ Hydrological Science Journal
- ✓ Frontiers in Water
- ✓ Current Research in Geoscience
- ✓ Applied Water Science
- ✓ Environmental Pollution
- ✓ Science of The Total Environment
- ✓ Water
- ✓ Frontiers of Earth Sciences

Publications (International/National)

1. **Lone, S.A.,** Jeelani, G. and Mukherjee, A., 2024. Hydrogeochemical controls on contrasting co-occurrence of geogenic Arsenic (As) and Fluoride (F⁻) in complex aquifer system of Upper Indus Basin, (UIB) western Himalaya. [Environmental Research. \(Accepted\). IF: 8.3.](#)
2. Jeelani, G., Hassan, W., Padhya, V., Deshpande, R.D., Dimri, A.P. and Lone, S.A., 2024. Significant role of permafrost in regional hydrology of the Upper Indus Basin, India. [Sci of Tot Environ, p.170863.IF.10.75.](#)
3. **Lone, S.A.,** Jeelani, G. and Mukherjee, A., 2024. Elevated fluoride levels in groundwater in the Himalayan aquifers of upper Indus basin, India: Sources, processes and health risk. [Groundwater for Sustainable Development, p.101096. IF.5.9.](#)
4. Lone, A., Jeelani, G., **Lone, S.A.,** Padhya, V., Deshpande, R.D. and Dimri, A.P., 2023. Spatial and meteorological controls of stable water isotope dynamics of precipitation in Kashmir Valley, Western Himalaya, India. [Isotopes in Environmental and Health Studies, VOL. 59, NOS. 4-6, 454-475. IF.1.3.](#)
5. Lone, A., Jeelani, G., **Lone, S.A.,** Padhya, V., Deshpande, R.D. and Dimri, A.P., 2023. Physiographic and Meteorological Controls on Stable Water Isotopes of Precipitation in Western Himalaya, India. [http://dx.doi.org/10.2139/ssrn.4351024.](http://dx.doi.org/10.2139/ssrn.4351024)
6. Jeelani, G., **Lone, S.A.,** Lone, A., Padhya, V., Deshpande, R.D., 2023. Quantifying and Estimating the Moisture Source Dynamics of Precipitation in Western Himalaya, Using Stable Water Isotopes. [http://dx.doi.org/10.2139/ssrn.4351049.](http://dx.doi.org/10.2139/ssrn.4351049)
7. **Lone, S.A.,** Jeelani, G., Deshpande, R.D., M. Sultan Bhat, Virendra Padhya., 2023. Assessing the hydrological controls on spatio-temporal patterns of streamwater in glacierized mountainous Upper Indus River Basin (UIRB), western Himalayas. [J Hydrol. 619: p 154964. IF: 6.4.](#)
8. **Lone, S.A.,** Jeelani, G., Virendra, P., Deshpande, R.D., 2022. Identifying and estimating the sources of river flow in the cold arid desert environment of Upper Indus River Basin (UIRB), western Himalayas. [Sci of Tot Environ. 832: p 154964. IF.10.75.](#)

9. Jeelani, G., **Lone, S.A.**, Lone, A., 2021. Groundwater resource protection and spring rejuvenation in upper Jhelum basin (UJB), western Himalayas [Groundwater for Sustainable Development.15: IF. 5.9. p 100685.](#)
10. Jeelani, G., **Lone, S.A.**, Nisa, A.U., Deshpande, R.D. and Padhya, V., 2021. Use of stable water isotopes to identify and estimate the sources of groundwater recharge in an alluvial aquifer of Upper Jhelum Basin (UJB), western Himalayas. [Hydrological Sciences Journal, 66\(16\), pp.2330-2339. IF: 3.94.](#)
11. **Lone, S.A.**, Jeelani, G., Mukherjee, A., and Coomar, P., 2021. Arsenic fate in upper Indus river basin (UIRB) aquifers: Controls of hydrochemical processes, provenances and water-aquifer matrix interaction. [Sci of Tot Environ. 795: p 148734. IF.10.75.](#)
12. **Lone, S.A.**, Jeelani, G., Deshpande, R.D., Mukherjee, A., Scott, J., Lone, A., 2021. Meltwaters dominate groundwater recharge in Upper Indus River Basin, western Himalayas. [Sci of Tot Environ. 786: p 147514. IF.10.75.](#)
13. Jeelani, G., Wasim, H., Saleem, M., Sahu, Pandit, G.G., S.K., **Lone, S.A.**, 2021. Gamma dose monitoring to assess the excess lifetime cancer risk in western Himalaya. [Journal of Radio-analytical and Nuclear Chemistry. 328\(1\), pp.245-258 IF.1.75.](#)
14. S. Mal, A.P. Dimri, G. Jeelani, S.K. Allen, C.A. Scott, M. K. Arora, A. Banerjee., **Lone, S.A.**, 2021. Determining the quasi monsoon front in the Indian Himalayas. [Quaternary International. \(2021\) 14:187. IF: 2.45.](#)
15. Shah, R.A., Hema., Krishnan, H., A., Lone, A., Saju, S., Ali, A., **Lone S.A.**, and Malik. S., Dash, C., 2021. Heavy metal concentration and ecological risk assessment in surface sediments of Dal Lake, Kashmir Valley, Western Himalaya. [Arabian J. Geoscience. \(2021\) 14:187 IF:1.82.](#)
16. **Lone, S. A** and Jeelani, G., 2020. Stable water isotopic evidence for the moisture source and composition of surface runoff in Ladakh, upper Indus river basin (UIRB). Environmental Science Proceedings (MDPI). [https://doi.org/10.3390/ECWS-5-07903.](https://doi.org/10.3390/ECWS-5-07903)

17. Jeelani, G., **Lone, S.A.**, Nissa, A., and Mukherjee, A., Deshpande, R.D., 2020. Sources and processes of groundwater arsenic mobilization in upper Jhelum basin, Western Himalayas. [J Hydrol. 591:125292. IF: 6.4.](#)
18. Shah, R.A., 1, Hema., Lone, A., **Lone S.A.**, and Malik. S., 2020. Environmental Risk Assessment of Lake Surface Sediments Using Trace Elements: A Case Study of Wular Lake. [Journal of Geological Survey of India. Vol-95. IF: 1.46.](#)
19. **Lone, S.A.**, Jeelani, G., Mukherjee, A., and Coomar, P., 2020. Geogenic groundwater arsenic in high altitude bedrock aquifers of upper Indus river basin (UIRB) Higher Himalayas. [Appl. Geochem. 113:104497. IF: 3.84.](#)
20. Jeelani, G., **Lone, S.A.**, 2020. Application of stable water isotopes in karst hydrogeology in snow and glacierized catchments of Kashmir Himalayas, India: a review. [IANCAS Bulletin. Vol XV. No.2, 58-66, 2020.](#)
21. **Lone, S.A.**, Jeelani, G., Deshpande, R.D. and Mukherjee, A., 2019. Stable isotope ($\delta^{18}\text{O}$ and δD) dynamics of precipitation in a high altitude Himalayan cold desert and its surroundings in Indus river basin, Ladakh. [Atmospheric Research.221; 46-57. IF: 5.96.](#)
22. Shah, R.A., and **Lone, S.A.**, 2019. Hydrogeomorphological mapping using geospatial techniques for assessing the groundwater potential of Rambiara river basin, western Himalayas. [Applied Water Science, 9\(3\), p.64. IF: 5.79.](#)
23. Jeelani, G. and **Lone, S.A.**, 2019. Establishing the effect of aridity on the stable isotopes (O and D) of precipitation in cold desert, Ladakh. [International Journal of Water Resources and Arid Environments, 8, p161-168.](#)
24. **Lone, S.A.**, Amrin U.N., Lone, A., 2017. Characterization of Groundwater Potential of Sindh Watershed Western Himalayas (J&K). [Int J Environ Sci Nat Res. 01, 03. DOI: 10.19080/IJESNR.2017.01.555562. IF: 1.20.](#)
25. **Lone, S.A.**, Jeelani, G., Deshpande, R.D., Shah. R.A., 2017. Evaluating the sensitivity of glacier to climate by using stable water isotopes and remote sensing. [Environ. Earth Sci. 76, 598. P 1-9. https://doi.org/10.1007/s12665-017-6937-6. IF: 3.11.](#)

26. Lone, S.A., Lone, A. A, Jeelani, G., 2016. Characterization of Groundwater Potential of Sindh Watershed Western Himalayas. [Journal of Research & Development, Vol. 16 \(2016\) ISSN 0972-5407.](#)
27. Lone, S.A., Lone, A., Paul, O., Omar, K., 2016. Extracting the Glacial - Geomorphological Landforms in West Liddar (NW) Himalayas Kashmir India. [J.Geogr Nat Disast 6: 179. Doi:10.4172/2167-0587.1000179. IF: 0.80.](#)
28. Lone, S.A., 2016. Mapping the Glacial-Geomorphological Landforms in East Liddar Valley, NW Himalaya Kashmir India. [J Geogr Nat Disast S6: 004. Doi: 10.4172/2167-0587.S6-004. IF: 0.80.](#)
29. Jaan, O., Lone, S.A., Malik, R., Lone, A., Mir, W., Nissa, A., 2015. Morphotectonic and Morphometric analysis of Vishav Basin left bank Tributary of Jhelum River SW Kashmir Valley India. [Int. j. econ. Environ. Geol. Vol: 6\(2\) 17-26, 2015.](#)

Book Chapters

1. Lone, S.A., Jeelani, G., 2024. Sensitivity of cryosphere to climate change in western Himalaya: A study from Dras Basin. In: Pal, SC., Roy, S., SAHA, A., Abioui, M. (eds) Water Resources Monitoring, Management and Sustainability. Elsevier. [https://doi.org/10.1007/978-3-031-44397-8_25.](https://doi.org/10.1007/978-3-031-44397-8_25)
2. Ayoub, I.B., Ara, S., Lone, S.A., 2024. Evaluating the Sensitivity of Saffron Yield to Climate Change in Western Himalaya, India. A Study from Kashmir Valley. U. Mukhopadhyay et al. (eds.), Climate Crisis, Social Responses and Sustainability, Climate Change Management. [https://doi.org/10.1007/978-3-031-58261-5_7.](https://doi.org/10.1007/978-3-031-58261-5_7)
3. Lone, S.A., Jeelani, G., 2024. Evaluating the Potential Impact of Climate Change on Glacier Dynamics in Western Himalayas, India. In: Chatterjee, U., Shaw, R., Kumar, S., Raj, A.D., Das, S. (eds) Climate Crisis: Adaptive Approaches and Sustainability. Sustainable Development Goals Series. Springer, Cham. [https://doi.org/10.1007/978-3-031-44397-8_25.](https://doi.org/10.1007/978-3-031-44397-8_25)

4. **Lone, S.A.,** Jeelani, G., 2023. Hydrogeomorphological Mapping of Groundwater Potential Zones Using Multi-influence Factor (MIF) and GIS Techniques: A Case Study of Vishav Watershed, Western Himalayas. *Emerging Technologies for Water Supply, Conservation and Management*. https://doi.org/10.1007/978-3-031-35279-9_9.
5. **Lone, S.A.,** Jeelani, G., 2023. Spatio-temporal dynamics of groundwater recharge in Dras sub-basin of Upper Indus River Basin (UIRB), western Himalayas. In: P. Thambidurai (Editor), Anil Kumar Dikshit (eds) *Impacts of Urbanization on Hydrological Systems in India*. Springer, Cham. <https://doi.org/10.1007/978-3-031-21618-3>.
6. **Lone, S.A.,** Jeelani, G., Alam, A., Bhat, M.S. and Farooq, H., 2022. Effect of Changing Climate on the Water Resources of Upper Jhelum Basin (UJB), India. In *Riverine Systems* (pp. 133-148). Springer, Cham. <https://doi.org/10.1007/978-3-030-87067-6>.
7. **Lone, S.A.,** Jeelani, G., 2022. Appraising the Groundwater Potential of Liddar Sub-Basin (Western Himalayas) Using Geospatial Techniques. In: Panneerselvam, B., Pande, C.B., Muniraj, K., Balasubramanian, A., Ravichandran, N. (eds) *Climate Change Impact on Groundwater Resources*. Springer, Cham. <https://doi.org/10.1007/978-3-031-04707-7>.

Conferences/Workshops (International/National)

1. **Lone, S.A.,** Jeelani, Gh., 2024. Meltwater dominance in groundwater of Himalayan aquifers of Upper Indus Basin, UIB western Himalaya. [*AGU Fall Meeting San Francisco, CA 11 - 15 December 2023*](#).
2. **Lone, S.A.,** Jeelani, Gh., 2024. Elevated groundwater Fluoride (F⁻) and health risk assessment in Upper Indus River Basin, (UIRB) western Himalaya. [*AGU Fall Meeting San Francisco, CA 11 - 15 December 2023*](#).

3. Jeelani, Gh., **Lone, S.A.**, 2023. Basin-wise dependence of streamflow on meltwater in Upper Indus Basin, western Himalayas. [*Inter-Polar Conference: Connecting the Arctic with the Third Pole 6-9 September 2023.*](#)
4. **Lone, S.A.**, Jeelani, Gh., 2022. Cryospheric nectar dominates stream water flow in arid-climate environment of Upper Indus River Basin (UIRB), western Himalayas. [*AGU Fall Meeting Chicago 12 - 16 December 2022.*](#)
5. **Lone, S.A.**, Jeelani, Gh., 2022. Estimating the dominance of source water to groundwater recharge in arid-climate environment of Upper Indus River Basin (UIRB), western Himalayas. [*AGU Fall Meeting Chicago 12 - 16 December 2022.*](#)
6. **Lone, S.A.**, Jeelani, Gh., 2022. Quantifying the dominance of source waters to river flow in high altitude arid climatic environment of Upper Indus River Basin (UIRB), western Himalayas. [*Frontiers in Hydrology. 19-24 June. SAN JUAN, PUERTO RICO, AGU Meeting 2022.*](#)
7. **Lone, S.A.**, Jeelani, Gh., 2022. Assessing the hydrological processes controlling spatio-temporal patterns of snowmelt in high altitude arid-climatic environment of Upper Indus River Basin (UIRB), India. [*Frontiers in Hydrology. 19-24 June. SAN JUAN, PUERTO RICO, AGU Meeting 2022.*](#)
8. Coomar, P., **Lone, S.A.**, Jeelani, G., Gupta, S., and Mukherjee, A., 2022. Arsenic geochemistry in high altitude Himalayan aquifers of Ladakh, India: source, processes and controls. Goldschmidt 2022. [https://doi.org/10.46427/gold2022.9978.](https://doi.org/10.46427/gold2022.9978)
9. **Lone, S.A.**, Jeelani, Gh., 2022. The stable water isotope ($\delta^{18}\text{O}$ and $\delta^2\text{H}$) evolution of snow and glacier melt across Ladakh (UIRB) northwestern Himalaya India. [\(sciencesconf.org: snowhydro2022:373028\).](https://sciencesconf.org/snowhydro2022:373028)
10. **Lone, S.A.**, Jeelani, Gh., 2020. Stable water isotopic evidence for the moisture source and composition of surface runoff in Ladakh, upper Indus river basin (UIRB), [\(doi:10.3390/ECWS-5-07903\).](https://doi.org/10.3390/ECWS-5-07903)
11. **Lone, S.A.**, Jeelani, G., 2018. Stable isotope ($\delta^{18}\text{O}$ and ^2H) variation in precipitation and their relationship with meteorological conditions in upper Indus basin, Ladakh. [*13th JKscience congress 2018. ISBN. 978-93-5291-653-5.*](#)

12. Lone, S.A., Jeelani, G., Nissa, A., 2017. Characteristics of oxygen-18 and deuterium composition in waters from the alluvial basin of Kashmir, western Himalayas. [7th International groundwater conference 2017. ISBN.978-93-81891-42-1.](#)
13. Lone, S.A., Jeelani, G., 2017. Appraising Recent Glacier Changes in Western Himalaya, India Using Stable Isotopes ($\delta^{18}\text{O}$ and $\delta^2\text{H}$) and Remote Sensing. [3-day National workshop on Disaster resilience of Kashmir in face of climate change. ISBN.978-93-5288-706-4.](#)
14. Nissa, A., Lone, S.A., Jeelani, G., 2017. Isotopes ($\delta^{18}\text{O}$ and δD) in precipitation and groundwater in the alluvial basin of Kashmir western Himalayas. [International symposium on sustainable urban environment \(Issue 2017\).](#)
15. Lone, S.A., Jeelani, G., Deshpande, R.D., Shah. R.A., 2017. An assessment to evaluate the effects of climate change on glaciers using stable water isotopes and remote sensing. [International symposium on sustainable urban environment \(Issue 2017\).](#)