ROUF AHMAD SHAH, SCIENTIST-B,WIHG, DEHRADUN, INDIA

Google Scholar Page: *https://scholar.google.com/citations?hl=en&user=IW8ZOwYAAAAJ*

RESEARCH GROUP: (HYDROGEOLOGY & GLACIOLOGY)

FIELD OF SPECIALIZATION: KARST HYDROGEOLOGY & ISOTOPE HYDROLOGY

EDUCATION:

PH.D (Geology), 2017: Department of Earth Sciences, School of Earth and Environmental Sciences, University of Kashmir, Srinagar, J&K, India.

Research Topic: Hydrogeological characterisation of karst aquifer of South Kashmir, Western Himalaya, India.

Supervisor: Professor (Dr.) Ghulam Jeelani.

M. Sc (Applied Geology), 2011: Department of Earth Sciences, University of Kashmir, Srinagar, J&K, India.

B. Sc (Geology, Geography, and Chemistry), 2009: Govt. Amar Singh College, Srinagar, J&K, India.

PROFESSIONAL EXPERIENCE:

- Scientist-B (Since 06 Nov. 2020 To Present), Wadia Institute of Himalayan Geology, Dehradun, Uttrakhand, India.
- Post-Doctoral Fellow (05-02-2018 To 05-02-2019) at Physical Research Laboratory (PRL), Ahmedabad, Department of Space (Govt. of India), 380009.
- SRF (10-09 2014-31-12- 2015), DST, GOI, Funded Research Project with DST No: SERB/F/1554/2012.

- JRF (09-09- 2012-09-09-2014), DST, GOI, Funded Research Project with DST No: SERB/F/1554/2012.

VISITING POSITIONS: **NIL**

TEACHING EXPERIENCE:

- Lecturer (on Contract) from 01-07 -2020 To 15-10-2020, at Department of Earth Sciences, University of Kashmir, Srinagar, J&K, India.
- Lecturer (on Contract) from 01-04-2020 to 31 -06-2020 at Govt. Degree College Ganderbal, Department of Higher Education, J&K, India.

SERVICES:

a. Supervision/Guidance to Ph.D. Students: **NIL**

b. Training M. Sc Dissertations (**10**)

c. Teaching: At M.Sc. & B. Sc. Level (batch, 2017, 2018, 2019), J&K, India.

d. Membership: **NIL**

e. Editorial Board: Editor, Hydrology (HYD) Journal

f. International/National Seminars/Workshop: **NIL**

g. External Research Fund received & Project Handled: **NIL**

h. Member of important Committees:

- Research Committee (Member) at Department of Earth Sciences, University of Kashmir, Srinagar, India.

AWARDS/FELLOWSHIPS/HONORS/MEMORIAL LECTURES:

a. Awards/Medals/Prizes:

b. Fellowships:

- Post-doctoral Fellowship (01 year), PRL, Ahmedabad, India.
- Senior and Junior Research Fellow (04 year), University of Kashmir, Srinagar, India.

c. Memorial Lectures:

- Karst Geomorphology, Cave Development & Hydrological characterisation of Karst Aquifers of Western Himalayas, at Physical Research Laboratory Ahmedabad, dated 05 June, 2018

d. Recognition/Honors: Best PH.D Thesis Award.

COUNTRIES VISITED: NIL

NATIONAL/INTERNATIONAL (outside CSIR-NGRI) COLLABORATION:

- Prof. R.D. Deshpande, PRL, Ahmedabad, India.
- Dr. Noble Jaccob, Isotope Applications Division, BARC, Mumbai, India.
- Prof. Nico Goldscheider, Karlsruhe Institute of Technology, Germany.
- Prof. Alan E. Fryar , Deptt. of Earth and Environ. Sci., University of Kentucky, USA.
- Dr. Jerome Perrin, BRGM, Orleans Cedex, France

Inside WIHG Collaborator: NIL

PATENT: NIL -

SCHOLARSHIPS AWARDED, GATE

PH.D. ADVISOR: PROFESSOR (DR.) GHULAM JEELANI.

LIST OF PUBLICATIONS

(a) SCI Papers

- **Shah RA,** Jeelani G, Goldscheider N **(2018).** Karst geomorphology, Cave development and hydrogeology in the Kashmir Valley, Western Himalaya, India. **Journal of Acta Carsologica.** *47:1,167-183.*
- **Shah RA**, Jeelani G and Noble J **(2017).** Estimating mean residence time of karst groundwater in mountainous catchments of Western Himalaya, India. **Hydrological Sciences Journal.** *62:8, 1230-1242***.**
- Jeelani G, **Shah RA**, Deshpande RD, Frayar EA, Perrin J, Mukherjee A (2017). Distinguishing and estimating recharge to karst springs in snow and glacier dominated mountainous basins of western Himalaya, India. **Journal of Hydrology**.550: 239-252.

- Jeelani, G, **Shah RA**, Frayar EA, Deshpande, RD, Mukherjee, A, Perrin, J (2017). Hydrological processes in glacierized high altitude basins of western Himalayas. **Hydrogeology Journal.** *DOI: 10.1007/s10040-017.1666-1.*
- Jeelani, G, **Shah RA** and Deshpande, RD **(2018).** Application of water isotopes to identify the sources of groundwater recharge in a mountainous catchment of western Himalaya. Journal of Climate Change. 4 (1):37-47.
- Lone SA, Jeelani G, Deshpande, RD**, Shah RA (2017).** Evaluating the sensitivity of glacier to climate based on stable water isotopes and remote sensing. **Journal of Environmental Earth Sciences.** 76:598, DOI: 10.1007/s12665-017-0937-6.
- Jeelani G, Deshpande R D, **Shah RA** and Hassan W **(2017).** Influence of southwest monsoons in Kashmir Valley, western Himalayas. **Journal of isotopes in Environmental and Health Studies.** 53(4): 400-412.
- **Shah RA** and Jeelani G **(2016).** Vulnerability of karst aquifer to contamination: a case study of Liddar catchment, Kashmir Himalayas. **J. Himalayan Ecol. Sustainable Dev.** *11: 58-69.*
- Jeelani G, **Shah RA,** Noble J and Deshpande R D **(2016).** Estimation of snow and glacier melt contribution to Liddar stream in a mountainous catchment, western Himalaya: an isotopic approach. **Journal of isotopes in Environmental and Health Studies.** 53(1): 18-35.
- Saleem M, Jeelani G and **Shah R A (2015).** The hydrochemistry of Dal Lake and the potential for sustainability for present, future management by using hydrochemical facies Ionic Ratios, and statistical analysis. **Journal of Environmental Earth Science.** 74(4)3301-3313.
- Jeelani G, **Shah RA** and Hussain A **(2014).** Hydrogeochemical assessment of groundwater in Kashmir Valley, India. **Journal of Earth System Science.** 123(5), 1031-1043.
- Sheikh J A, Jeelani G, Gavali S and **Shah RA (2013).** Weathering and anthropogenic influence on water and sediment chemistry of Wular Lake, Kashmir western Himalaya, India. **Journal of Environmental Earth Science**.71, 2837-2846.

(b) Non-SCI Articles

- **Shah RA** and Jeelani G **(2016).** Vulnerability of karst aquifer to contamination: a case study of Liddar catchment, Kashmir Himalayas. **J. Himalayan Ecol. Sustainable Dev.** *11: 58-69.*

(c) Chapter in Books

- Jeelani, G, **Shah R A** and Deshpande, RD **(2017).** Assessment of groundwater in karst system of Kashmir Himalayas. ***Groundwater of South Asia*.** Mukherjee A (Eds). Springer Nature, Singapore, 85-100p. Doi: 10.1007/ 978-981-10-3889-1_6.
- Jeelani G and **Shah RA (2016).** Delineation of point sources of recharge in karst settings. ***Trends in Asian water in Environmental Science and Technology****:* Futoshi Kurisu, AL Ramamnathan, Absar Kazmi and Manish Kumar (Eds) 17: 195-209p.

(d) Books-authored/Edited volume: NIL

(e) Abstract volume:

- Vulnerability of karst aquifer to contamination. *International Symposium on Sustainable Urban Environment), 83-84p (ISSUE 2017). Tezpur University, Assam, 23-24 June, 2017*
- Estimation of glacier melt contribution to Liddar stream in a mountainous catchment, western Himalaya: an isotopic approach. *International conference on Glaciology in High Mountain Asia, held at Kathmandu, Nepal March-2015 (ISSUE 2015).*
- Distinguishing and estimation of spring recharge. A case study of Martand Karst spring Kashmir Valley.19th National symposium on Environment: Climate Change. *December, 11-13 (ISSUE 2014). MGM- Indra Gandhi University, Kottayam Kerala Karela, India.*
- MRT of groundwater in Karst. Paper presented in 11th JK Science Congress 2015 on Scientific, Social and Economic dimensions of climate change held at *University of Kashmir from October 12-14,2015*
- Hydrogeochemistry of groundwater in Kashmir Valley. *8th JK Sciences Congress 2012, India*
- Hydrogeological characterisation Martand Karst spring, western Himalaya, India. *International geographical conference (IGU) held at Srinagar.*
- Karst landscapes of Anantnag. A potential resource. *22 April 2013, Earth Day conference in J&K, Ministry of Earth Sciences, Govt. of India*

(f) Reports/Other Documents:

- Impact of climate change on groundwater resources of karst aquifer in Kashmir Valley, India.

(g) Articles in Proceeding Volumes