

CURRICULUM VITAE

PERSONAL INFORMATION

- i. Name : Tariq Abdullah
ii. Sex : Male
iii. Date of Birth : February 1, 1990
iv. **Addresses for Correspondence:**

Current Address : Department of Planning & Geomatics, IUST

Permanent Address : Khandipora, Awantipora-192122

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Current Position: Assistant Professor, Islamic University of Science and Technology,
Awantipora, Kashmir

- EDUCATION**
- PhD** **University of Kashmir**, Geoinformatics, (2015-2021).
Thesis: Glacial dynamics of Kashmir Himalaya using remotely sensed data and ground observations
- MS** **University of Kashmir**, Geoinformatics, April, 2012-April, 2014
Marks obtained: 84.13% (**First Position**)
Dissertation: *Understanding Glacier Dynamics using Geoinformatics*
- BS** **University of Kashmir**, Computer Applications, 2009-2011
Marks obtained: 70% (Ist Division)
- HONORS AND AWARDS**
- I. **University Gold Medal (MSc. Geoinformatics), 2014**
II. **INSPIRE Fellowship Award**, Department of Science and Science and Technology (DST), Govt., of India, 01 September, 2015 to 21 November, 2017
III. **Best Paper Award**, National Symposium in Advancement in Geospatial Technology for the Societal Benefits, SAC- ISRO, 2018.
IV. **Best Paper Award**, International Conference on Sustainable Development Goals with special focus on Climate Action, 11-14, August, 2023, IUST, Awantipora, India

- RESEARCH EXPERIENCE**
- I. **Principal Project Associate**, Center of Excellence for Glacial Studies in Western Himalaya”, Department of Geoinformatics, University of Kashmir from **01 October, 2023 – 23 January, 2024**.
- II. **Senior Project Associate**, Center of Excellence for Glacial Studies in Western Himalaya”, Department of Geoinformatics, University of Kashmir from **29 October, 2021 – 30th September, 2023**.
- III. **1-year** research experience as **Project Associate-II**, on DST, GoI, sponsored research project “Center of Excellence for Glacial Studies in Western Himalaya”, Department of Geoinformatics, University of Kashmir from 1st October, 2020 – 28 October, 2021
- IV. **Thirteen Months** research experience as **Research Assistant** at Department of Earth Sciences, University of Kashmir-190006 from **30-08-2014 to 31-10-2015**

**TEACHING
EXPERIENCE**

1. Guest faculty, Department of Earth Sciences, University of Kashmir. January- December, 2018.
2. Assistant Professor, Goemetics, IUST, Awantipora, January 24, 2024-present

PUBLICATIONS

Journal Papers

Published:

1. **Tariq Abdullah**, Romshoo S.A. (2024). Comprehensive Inventory, Characterization and Analysis of Rock Glaciers in the Kashmir Himalaya using High-Resolution Google Earth Data. *Water*. [IF: 3.3]
2. Romshoo SA, Ameen U. Bhat M.H, and **Tariq Abdullah**. (2024) Comprehensive analysis of glacier recession (2000–2020) in the Nun-Kun Group of Glaciers, Northwestern Himalaya, *Journal of Mountain Sciences*. [IF: 2.371]
3. Shakil A. Romshoo, **Tariq Abdullah**, Ameen, U. and Bhat M.H. (2024) Glacier thickness and volume estimation in the Upper Indus Basin using modelling and ground penetrating radar measurements. *Annals of Glaciology*. [IF: 2.863]
4. Shakil A. Romshoo, **Tariq Abdullah**, Khalid Omar Murtaza, Mustafa Hameed Bhat (2023). Direct, geodetic and simulated mass balance studies of the Kolahoi Glacier in the Kashmir Himalaya, India. *Journal of Hydrology*, 617: 129019 [IF: 6.708]
5. Irfan Rashid, **Tariq Abdullah**, Shakil Ahmad Romshoo (2022). Explaining the natural and anthropogenic factors driving glacier recession in Kashmir Himalaya, India. *Environmental Science and Pollution Research*, 1-19 [IF: 5.190]
6. Shakil A. Romshoo, Khalid O.M., **Tariq Abdullah** (2022). Towards understanding various influences on mass balance of the Hoksar Glacier in the Upper Indus Basin using observations. *Scientific Reports*, 12:1-14 [IF:5.5]
7. Shakil A. Romshoo, **Tariq Abdullah**, Irfan Rashid, IM Bahuguna (2022). Explaining the differential response of glaciers across different mountain ranges in the north-western Himalaya, India. *Cold Regions Science and Technology*, 196:103515 [IF: 4.427]
8. Shakil A. Romshoo, **Tariq Abdullah** and Mustafa Hameed (2021), Evaluation of the global glacier inventories and assessment of glacier elevation changes over north-western Himalaya, *Earth system Science Data Discussion*. [IF:11.33]
9. **Tariq Abdullah**, Shakil A. Romshoo and Irfan Rashid (2020). The Satellite Observed Glacier Mass Changes over the Upper Indus Basin during 2000-2012. *Scientific Reports*, 10:14285 [IF:5.5]
10. Irfan Rashid, **Tariq Abdullah**, Neil F. Glasser, Heena Naz, Shakil Ahmad Romshoo (2018). Surge of Hispar Glacier, Pakistan, between 2013 and 2017 detected from remote sensing observations *Geomorphology*. [IF: 3.81]
11. Irfan Rashid, Shakil A. Romshoo, **Tariq Abdullah**. (2017). The Recent Deglaciation of Kolahoi Valley in Kashmir Himalayas, India

- under the Changing Climate, *Journal of Asian Earth Sciences*, 138-38-50 [IF:3.05]
12. Irfan Rashid and **Tariq Abdullah**. (2017). Investigation of temporal change in glacial extent of Chitral watershed using Landsat data: a critique. *Environmental Monitoring and Assessment*, 188(10), 546. [IF:3.07]
 13. Irfan Rashid, Shakil A. Romshoo, Javid Ahmad Hajam and **Tariq Abdullah**. (2016). A Semi-Automated Approach for Mapping Geomorphology in Mountainous Terrain, Ferozpora watershed (Kashmir Himalayas), *Journal of Geological Society of India*, 88(2), 206-212. [IF:1.46]

Conferences: National/International

1. **Tariq Abdullah**, Mustafa Hameed and Shakil Romshoo (2023). Climatic drivers of glacier mass balance: an integrated approach using remote sensing, modelling and field observations. 3-Day International Conference on Sustainable Development Goals with special focus on Climate Action, 11-14, August, 2023, IUST, Awantipora, India. (**Best Paper Award**)
2. **Tariq Abdullah** and Shakil Romshoo (2023). Direct, geodetic and simulated mass balance studies of the Kolahoi Glacier in the Kashmir Himalaya. *International Climate Research Conclave (ICRC)*, 26-27 May, 2023, IIT Bombay
3. **Tariq Abdullah** and Shakil A. Romshoo (2021). Evaluation of various glacier inventories over north-western Himalaya using Kashmir University Glacier Inventory (KUGI). *National Symposium on i-Geomatics: An integrated technology to empower citizens towards self-reliant nation hosted online by Indian Society of Geomatics and Indian Society of Remote Sensing on 15th- 17th December, 2021*
4. **Tariq Abdullah** and Shakil A. Romshoo (2020). Glacier Mass changes observed over Upper Indus Basin. *National Virtual symposium on Weather and Climate Services over Mountainous Regions, NESAC, ISRO and IMS, Shilong, 14-17 December 2020*.
5. **Tariq Abdullah**, Shakil A. Romshoo and Irfan Rashid (2018). Future changes in glacier mass and area under changing climate in Kashmir Himalaya, India. *In National Symposium in Advancement in Geospatial Technology for the Societal Benefits 2018, Space Application Center (SAC, ISRO) Ahmedabad India, 05-07 December 2018. (Best Paper Award)*
6. **Tariq Abdullah**, Shakil A. Romshoo and Irfan Rashid. Satellite observed glacier dynamics across different mountain ranges in

Kashmir Himalaya (2018). *Proceedings of the 13th Jammu and Kashmir Sciences Congress, University of Kashmir, Hazratbal, Srinagar India*

7. Shakil A. Romshoo, Irfan Rashid, **Tariq Abdullah**, and Midhat Fayaz (2017) Observed Changes in the Himalayan Glaciers: Multiple Driving Factors. *In EGU General Assembly Conference Abstracts (Vol. 19, p. 966).*
8. **Tariq Abdullah**, Irfan Rashid and Shakil A. Romshoo. Understanding glacier dynamics in North Western Himalaya (2017). *National Conference on Himalayan Cryosphere, IISC, Bangluru India.*
9. **Tariq Abdullah**, Irfan Rashid, Neil F. Glasser and Shakil Ahmad Romshoo Understanding the surging behavior of Karakorum glaciers: Case study of Hispar glacier. **ACRS 2017 | 38th Asian Conference on Remote Sensing, At New Delhi, India**
10. **Tariq Abdullah**, Irfan Rashid, Shakil A. Romshoo. (2015). Understanding Glacier Dynamics in J and K Himalayas. ***Proceedings of the 11th JK Science Congress, Srinagar, Jammu and Kashmir, India, 217***
11. Shakil A. Romshoo, **Tariq Abdullah** and Irfan Rashid. (2014). Explaining the Observed Changes in the Himalayan Cryosphere on the basis of Varying Climatology and Topography. ***Proceedings of the National Conference on Himalayan Glaciology, Shimla, HP, India, 22-23***

WORKSHOPS

1. **Panelist:** One-Day Workshop on International Day for Disaster Risk Reduction, Centre for Disaster Risk Reduction, IUST, Awantipora, October 7, 2024.
2. **Resource person and Co-coordinator: 3-Week Capacity Building Program in Glaciology**, CoE for Glacial Studies, University of Kashmir, Srinagar, India, 02 – 22 September, 2024, sponsored by DST, GoI, New Delhi.
3. **Organizer:** One Day National One Day Workshop on "National Space Day" Department of Planning & Geomatics, IUST, Awantipora, 23 August, 2024.
4. **Resource person and Co-coordinator: 3-Week Capacity Building Program in Glaciology**, CoE for Glacial Studies, University of Kashmir, Srinagar, India, 11 – 30 September, 2023, sponsored by DST, GoI, New Delhi.
5. **Resource person: 3-week “NGP-DST Winter School on Geospatial Technologies (Level-1)”** conducted from 1st December, 2022 to 21st December, 2022 at by Department of Geoinformatics, University of Kashmir, Srinagar and supported by Department of

Science and Technology, government of India, New Delhi.

6. One Day workshop on “**Role of Geoinformatics in Environmental Management with special reference to Kashmir Himalaya**, organized by ISG-Kashmir Chapter and Amar Singh College, Cluster university Srinagar on 6th June, 2022 at Amar Singh College Srinagar.
7. **National Workshop on Popularisation of Remote Sensing Based Maps & Geospatial Information**, one-day workshop jointly organized by ISRS & ISRO on August 11, 2017.
8. **Water Resources-threats & Challenges: A way forward**, two-day work shop organized by the Department of Environmental Sciences, University of Kashmir, Srinagar during 22 and 23 March, 2017.

PROFESSIONAL TRAINING

1. **HUC-IHCAP Glacier Monitoring Training 2018**, 11-16 November, 2018, Kathmandu, Nepal, organized by the Himalayan University Consortium – International Centre for Integrated Mountain Development (HUC-ICIMOD) in collaboration with the University of Fribourg, Switzerland.
2. “**Modeling Mountain glacier Dynamics**, organized by Earth and Climate Science, Indian Institute of Science Education and Research Pune, and Dept. of Science and Technology, Govt. of India during 23rd Sept to 4th Oct 2015 at IISER Pune.
3. **2nd Indo-Swiss Capacity building programme on Himalayan Glaciology Level-II**”, School of Environmental Sciences, Jawarlal Nehru University New Delhi. New Delhi, September 17 to October 8, 2014 (Field Training) at Chhota Shigri glacier, Himachal Pradesh and January 5 to February 13, 2015 (Classroom Session) at JNU New Delhi.
1. **2nd Indo-Swiss Capacity building programme on Himalayan Glaciology Level-I**, School of Environmental Sciences, Jawarlal Nehru University New Delhi. New Delhi, August 18 to September 15, 2014.

PROJECTS

- I. Development and Compilation of the Training Material on Glaciology & Related Areas.
Credit proposal no. 7F-08037.02.01
Contract no. 81042782
Funding Agency: The Swiss Confederation, represented by the Federal Department of Foreign Affairs (FDFA), acting through the Embassy of Switzerland in India, Swiss Agency for Development and Cooperation, Climate Change and Development, Nyaya Marg-110021 New Delhi, India.
Duration: 26 April, 2016 to 10 June, 2016

CERTIFICATE COURSES

1. Certificate course on “**Remote Sensing, Geographical Information System and Global Positioning System**” Off-Campus outreach certificate program conducted by Indian Institute of

Remote sensing (**IIRS**), Indian Space Research Organization (**ISRO**), Department of Space, Government of India at EMMRC University of Kashmir from 06-08-2102 to 22-10-2102

2. Certificate course on “**Geoweb- Services technology and Applications**” Off-Campus outreach certificate program conducted by Indian Institute of Remote sensing (**IIRS**), Indian Space Research Organization (**ISRO**), Department of Space, Government of India at EMMRC University of Kashmir from 11-02-2103 to 15-03-2103

**MEMBERSHIP OF
SCIENTIFIC
SOCIETIES**

- a. Life member, Indian Society of Geomantics (ISG)
- b. Life member, Indian Meteorological Society (IMS)
- c. Executive Member IMS, Kashmir Chapter

**LANGUAGES
COMPUTER
& OTHER
SKILLS**

English, Kashmiri, Urdu and Hindi

Programming: Programming in C, C++, Visual Basics and Python

Applications: MS Office (Word, Excel, Power point and Access).

Image processing and GIS application softwares: ERDAS, ENVI, ArcGIS and QGIS, Pix4D

- Certified UAV Pilot (for glacier mapping)
- Experience in operating Ground Penetrating Radar, DGPS; Total station, Terrestrial Laser Scanner, Spectro-radiometer and other field equipment

Tariq Abdullah