



## Umair Rasool

✉ Email: [umair.rasool@cmcc.it](mailto:umair.rasool@cmcc.it)

🌐 LinkedIn: <https://www.linkedin.com/in/umair-rasool-590ab993/>

👤 ResearchGate: <https://www.researchgate.net/profile/Umair-Rasool-2>

Gender: Male Date of birth: 03/03/1992 Nationality: Pakistani

### ABOUT ME

### WORK EXPERIENCE

[ 01/01/2025 – Current ]

#### Research Collaborator

***Euro-Mediterranean Center on Climate Change (CMCC)***

City: Venice | Country: Italy

Conducting advanced research in multi-risk evaluation to support adaptation planning in coastal marine areas.

Collaborating on key projects, including **NBRACER**, **AcquaGuard**, and **TRANSEATION**, focusing on risk modeling and profiling.

Contributing to Work Packages (WPs) such as WP5 (data collection and risk modeling for the Cantabria region), WP1 and WP2 (risk databases and model development for Karlovac-HR and Veneto regions).

Supporting the assessment of hybrid Nature-Based Solutions (NBS) through data collection and evaluation (WP3, WP8/WP14).

Working with interdisciplinary teams to deliver actionable strategies for climate resilience and sustainable environmental practices.

[ 31/12/2014 – 29/08/2016 ]

#### Junior Geologist

***M/S Trend Scatters Construction Company***

City: Dera Ghazi Khan | Country: Pakistan

1- Material testing on soil and aggregates

2- Concrete testing for highways and buildings.

### EDUCATION AND TRAINING

[ 14/09/2020 – 09/01/2025 ]

#### Ph.D. in Environmental Sciences

***Beijing Normal University*** <https://www.bnu.edu.cn/>

Address: 19 Xijiekou Outer St, Bei Tai Ping Zhuang, Haidian District, 100875, Beijing, China |

[ 14/09/2016 – 14/07/2020 ]

#### Master's in Geological Resources and Geological Engineering

***China University of Geosciences, Beijing*** [www.cugb.edu.cn](http://www.cugb.edu.cn)

Address: Haidian district,, 10000, Beijing, China |

[ 31/08/2010 – 14/10/2014 ]

#### Bachelor's in General Geology

***University of Azad Jammu and Kashmir*** [www.ajku.edu.pk](http://www.ajku.edu.pk)

Address: City campus, Main upper adda, 13100, Muzaffarabad, Azad kashmir, Pakistan |

## PUBLICATIONS

---

- [ 2024 ] [Influence of Lunar Phases and Meteorological Factors on Rainfall in Karachi City, Pakistan](#)
- [ 2023 ] [Rainfall-Driven Machine Learning Models for Accurate Flood Inundation Mapping in Karachi, Pakistan](#)
- [ 2023 ] [Evaluating the Relationship between Groundwater Quality and Land Use in an Urbanized Watershed](#)
- [ 2022 ] [Mapping of Groundwater Productivity Potential with Machine Learning Algorithms: A Case Study in the Provincial Capital of Baluchistan, Pakistan.](#)
- [ 2021 ] [Evaluation of land use and land cover Spatio-temporal change during rapid Urban sprawl from Lahore, Pakistan](#)
- [ 2020 ] [Assessment and simulation of land use and land cover change impacts on the land surface temperature of Chaoyang District in Beijing, China](#)
- [ 2020 ] [Geoinformatics and geophysical survey-based estimation of best groundwater potential sites through surface and subsurface indicators](#)
- [ 2020 ] [Integrated Approach to Hydrogeochemical Appraisal and Quality Assessment of Groundwater from Sargodha District, Pakistan](#)
- [ 2019 ] [3D Interpretation of Resistivity Data for Groundwater Potential Assessment of Pakhli Plain, Mansehra District, Pakistan](#)
- [ 2017 ] [Reservoir characterization of basal sand zone of lower Goru Formation by petrophysical studies of geophysical logs.](#)

## CONFERENCES AND SEMINARS

---

- International GeoInformatics Summer School, 2023** LIESMARS, Wuhan University, Wuhan, China
- Ocean Governance and Marine Spatial Planning. 2022**  
College of the Environment and Ecology, Xiamen University, Fujian, China
- Inter-universities Consortium on Climate Change and Sustainability. 2022** Islamia University, Bahawalpur, Pakistan
- Ecosystem Governance and Function Maintenance in Urban Environment. 2022**  
University of Agriculture, Faisalabad (UEF), Burewala Campus, Punjab, Pakistan
- GIS and Remote Sensing in the Field of Engineering. 2021** University of Engineering and Technology, Taxila, Punjab, Pakistan
- Increasing Frequency of Flood Events Across the Central United States: A Hierarchy of Whys. 2020**  
School of Water Sciences, Beijing Normal University, Beijing, China
- The 2nd International Workshop of GIS Technology and Applications. 2019** GIS International Training College of CSGPC; GIS College of SuperMap University, Beijing, China

**GIS Application and Spatial Data Analysis for Water Management. 2019** Centre of Excellence in Water Resources Engineering, UET, Lahore, Pakistan

**1st Tsinghua Model Climate Change Conference. 2016** Tsinghua University, Haidian district, Beijing, China

**Advance Training Course for Developing Countries on Mineral Resources Exploration and Assessment. 2015**

China University of Geosciences, Beijing, Haidian district, Beijing, China

**Certificate Course of Geographical Information System. 2014** Vocational Training Institute, Muzaffarabad, Azad Kashmir, Pakistan

## LANGUAGE SKILLS

---

**Mother tongue(s):** Urdu

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

**Chinese**

**LISTENING C1 READING C1 WRITING B1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

---

**My Digital Skills**

Adobe Illustrator | Microsoft Office | Organizational and planning skills | Social media/ Social network | LinkedIn | ResearchGate | Written and Verbal skills | Team-work oriented | QGIS | ArcGIS | Google Earth Engine(GEE) Google Earth Pro | SURFER 11 | PCI Geomatica | Global mapper | IDRIS-TerrSet | R & R Studio | SPSS | OriginLab | Python (Spyder/Jupyter Notebook IDE)

## SOCIAL SKILLS AND COMPETENCES

---

**Team player (I have in various teams during my studies, research, and job activities); ability to adapt to multicultural environments (gained through my experience as trainer, conferences/ meeting participation).**

## HOBBIES AND INTERESTS

---

**Drawing, sketching, Travelling, Cooking and baking, Swimming. Reading books and playing badminton and cricket.**