RAMSHA Haris

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Professional Experience

Temporary Visiting Faculty, Dept. of Earth and Environmental Sciences, Bahria University (Karachi Campus)

Web GIS   Sep 2025 – Dec 2025

- Developed comprehensive course content (syllabus, lecture notes, assignments, assessments).
- Facilitated interactive learning through discussions, case studies, and hands-on exercises.
- Covered practical Web GIS app development with core web technologies

Freelance Trainer, Omni Academy & Consulting

- Conducting a Complete Front-End Web Development course which includes HTML, CSS, JavaScript, and React JS.   Jan 2024

Temporary Visiting Faculty, Institute of Space Technology

GIS Programming using Python.   Feb 2023 – Jun 2023

- Developed course materials, including syllabi, lecture notes, assignments, and assessments.
- Engaged students through interactive discussions, hands-on exercises, and practical applications of GIS software and its customization like tool development using ModelBuilder as well as Python script

Software Developer, Bank Al Habib Ltd.

- Collect, compile, and analyze requirements for designing the application.   Nov 2019 – Apr 2020
- Develop, implement, and support Enterprise-wide IBM Lotus Notes applications.
- Develop and execute test cases for application and technical architecture components.
- Involved in the development and testing of Lotus Notes/Domino and Lotus Script for a   Dec 2014 – Aug 2018
  user base of 12000 employees.

Educational Researcher, US-PAKISTAN CENTER OF ADVANCE STUDIES IN WATER, MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO (Pakistan)

- Data Acquisition and Preparation.   Oct 2018 – Sep 2019
- Manipulating spatial data sets (e.g., using netcdf files or GIS files).
- Statistical Analysis.
- Developing GIS maps.
- Interpretation and Reporting.

Technical Skills

Python | JavaScript | HTML | CSS | React JS | ArcGIS | Google Earth Engine | GitHub

Education

Master of Science in Remote Sensing and Geo-information Sciences,   2016-2020
Institute of Space Technology, Karachi, Pakistan.

Thesis: **Studying Water Balance Of Manchar Lake (Sindh, Pakistan) Using Sentinel-3a And Landsat Data**

Bachelor of Science in Software Engineering, Umaer Basha Institute of Science & Technology, Department of Computer Science, University of Karachi, Karachi, Pakistan.   2010-2013

Workshop

27th Workshop on Space Technology for Socio-Economic Benefits International Astronautical   2019
Federation (IAF) & UN Office for Outer Space Affairs (UNOOSA)
August 2019.

Achievements

- Conducted **Workshop** on Indus River Water Level Monitoring in Sindh using Satellite Radar Altimetry at U.S.-Pakistan Center for Advanced Studies in Water, MUET, Jamshoro.   2019

- Conducted a session at **Volgenau School of Engineering - George Mason University,USA** on Satellite Radar Altimetry.   2019

- **Worked as RA on USAID funded project and Published report** on Indus River Water Monitoring in Sindh Using radar Altimetry.   2019

Publications & Conference Proceedings

- [Indus River Water Level Monitoring Using Satellite Radar Altimetry](#)   2021

- [Water balance study of Manchar Lake (Sindh, Pakistan) using Landsat and Sentinel 3A](#)   2020

- [Volumetric Variations of Inland Water Body: A Case Study of Manchar Lake](#)   2019

Poster Presentations

- Presented Poster at the 12th Coastal Altimetry 2020 titled "[Lake Monitoring Using Multi-Mission Satellite Radar Altimetry](#)" pg32.   2020

- Presented Poster at the 27th IAF 2019 titled "[Integrating satellite Remote Sensing with water storage balance for water management](#)".   2019

- Presented Poster at the 42nd COSPAR Scientific Assembly 2018 titled "[Integrating GIS and SCS-Curve Number for Estimating Runoff Coefficient](#)".   2018

References

1. [Arjumand Z. Zaidi](#), Senior Research Fellow,
   USPCAS-W, Mehran University of Engineering and Technology Jamshoro, Sindh, Pakistan.
   Email: arjumand.uspcasw@faculty.muet.edu.pk, arjzaidi@gmail.com
2. [Dr. Saad Malik](#), Assistant Professor,
   Department of Computer Sciences at SZABIST Islamabad, Pakistan.
   Email: dr.saad@szabist-isb.edu.pk
3. [Rao Muhammad Zahid Khalil](#), Lecturer
   National Centre for Remote Sensing & Geo Informatics, Institute of Space Technology Sindh, Pakistan.
   Email: zahidkhalil.rao@gmail.com