



## ABDUL WAHID

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**Website:** <https://abdulwahidgis.github.io/Portfolio-Website/>

**Home:** Village Gufti P/O Garam Chashma District and Tehsil Chitral, 17130 Chitral (Pakistan)

### ABOUT ME

I am an aspiring PhD candidate with a robust academic background in GIS and Remote Sensing, combined with practical experience in spatial data analysis and geospatial technologies. I hold a Master's degree in Remote Sensing and GIS and a Bachelor's degree in Geo-informatics from Pir Mehr Ali Shah Arid Agriculture University. My academic journey has equipped me with a deep understanding of geospatial science, advanced analytical skills, and a passion for research.

### WORK EXPERIENCE

#### Geographic Information System Associate

*Metavystic* [ 03/10/2023 – Current ]

**City:** Islamabad | **Country:** Pakistan

As a dedicated GIS Associate at Metavystic, I have successfully managed and optimized PostgreSQL databases, implemented efficient data scraping techniques, and utilized ArcGIS products for spatial data analysis. My role has been instrumental in ensuring data accuracy, integrity, and seamless automation processes.

#### Geographic Information System Assistant

*TechGIS* [ 03/10/2022 – 30/09/2023 ]

**City:** Islamabad | **Country:** Pakistan

As a GIS Assistant, I exhibit proficiency in ArcGIS tools, automation, digitization, and quality assurance, particularly in land management. My key roles include ensuring precision in data entry, enhancing land representation through georeferencing and digitization, and championing data integrity. I strategically apply GIS for actionable insights and collaborate with cross-functional teams, linking digitized maps to Land Record Management Information Systems. Additionally, I design informative layout maps for effective communication of geographical information.

#### Design Specialist

*COM19 Solutions* [ 06/03/2022 – 02/10/2022 ]

**City:** Islamabad | **Country:** Pakistan

I played a pivotal role in the USF Phase 4 Lot 11 Project, a groundbreaking effort to extend next-gen fiber network services in underserved areas of Pakistan, fostering digital inclusion. My responsibilities included conducting a thorough analysis of the target areas, designing strategic OFC routes, leveraging advanced GIS tools for accurate planning, and integrating connection points with existing fiber networks. Additionally, I mapped critical socio-economic infrastructure and provided comprehensive recommendations to enhance broadband services, optimizing network expansion and connectivity. This project significantly contributes to bridging connectivity gaps and promoting digital inclusion in underserved regions.

## Geographic Information System Intern

*GreenAge Services* [ 01/06/2021 – 30/06/2022 ]

**City:** Islamabad | **Country:** Pakistan

During this internship, I honed my expertise in a wide range of GIS skills, including ArcGIS, automation, mosaicing, digitization, quality assurance, georeferencing, layout map design, and data entry.

## EDUCATION

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### MS Remote Sensing and GIS

*Pir Mehr Ali Shah Arid Agriculture University* [ 03/10/2022 – 12/07/2024 ]

**City:** Rawalpindi | **Country:** Pakistan | **Website:** [www.uaar.edu.pk/index.php](http://www.uaar.edu.pk/index.php)

### BS Geo-informatics

*Pir Mehr Ali Shah Arid Agriculture University* [ 03/10/2018 – 12/08/2022 ]

**City:** Rawalpindi | **Country:** Pakistan | **Website:** [www.uaar.edu.pk/index.php](http://www.uaar.edu.pk/index.php)

## RESEARCH AND PROJECTS

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[ 03/10/2023 – 09/08/2024 ]

### Glacial Lake Outburst Flood Mapping and risk Assessment using Combined Approaches of Satellite Remote Sensing, GIS and Dam Break Modelling

This research focuses on developing a comprehensive methodology for mapping and assessing the risks associated with Glacial Lake Outburst Floods (GLOFs). The study integrates the advanced technologies of satellite remote sensing, Geographic Information Systems (GIS), and dam break modeling to identify potential GLOF hazards and evaluate their impact.

This research is conducted as part of my Master's studies, demonstrating my commitment to advancing the field of GLOF risk assessment and contributing to sustainable environmental management.

[ 01/04/2023 – 05/06/2023 ]

### Landslide Susceptibility Mapping using GIS, Remote Sensing, and AHP Techniques

This project focuses on mapping landslide susceptibility by integrating the capabilities of Geographic Information Systems (GIS) and remote sensing. Landslide susceptibility mapping is crucial for disaster risk reduction, land use planning, and infrastructure development, particularly in mountainous and hilly regions.

[ 01/02/2022 – 09/06/2022 ]

### Assessment of Reservoir sedimentation using Remote Sensing, GIS and Hydrological Modelling

This project aims to evaluate the extent and impact of sedimentation in reservoirs by employing a combination of remote sensing, Geographic Information Systems (GIS), and hydrological modeling techniques. The study addresses the critical issue of sediment accumulation, which affects reservoir capacity, water quality, and the overall efficiency of water resource management systems.

This project was conducted as part of my Bachelor's studies, reflecting my dedication to addressing environmental challenges through the application of advanced geospatial and hydrological techniques.

[ 03/05/2022 – 06/06/2022 ]

### Land Surface Temperature in the Metropolitan Twin Cities Islamabad and Rawalpindi, Pakistan

This project investigates the land surface temperature (LST) variations in the metropolitan twin cities of Islamabad and Rawalpindi, Pakistan. By analyzing LST, the study aims to understand the urban heat island effect and its implications for urban planning and management in these rapidly developing urban areas.

[ 06/04/2021 – 04/06/2021 ]

## Snow Cover change Assessment and Mapping using Remote Sensing & GIS

This project focuses on mapping snow cover using the advanced capabilities of remote sensing and Geographic Information Systems (GIS). Snow cover mapping is essential for understanding and managing water resources, predicting climate change impacts, and assessing environmental conditions in mountainous and cold regions.

## DIGITAL SKILLS

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GIS (Geographical Information System) / Remote Sensing / Global Mapper / Spatial Analysis and Visualisation / Microsoft Office / Cartography / ArcGIS / Automation / HEC-RAS / Postgres / QGIS / Microsoft Excel / HEC- HMS / ArcGIS Online / ENVI / Google Earth Engine / Erdas Imagine / Mapbox / Google Earth Pro / JavaScript KML XML Openlayers Leaflet / Map digitization / Georeferencing / OpenLayers (JS)

## INTERESTS

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**Remote Sensing and Earth Observation**

**Geographic Information Science (GIScience)**

**Climate Change and Climate Modeling**

**Environmental Monitoring and Management**

**Cartography and Visualization**

**geodesy and photogrammetry engineering**

**Urban and Regional Planning**

**Hydrology and Water Resources Management**

**Disaster Management and Risk Assessment**

**Data Science and its Application**

**Emerging Technologies (RADAR, SAR and LIDAR)**

**Navigation and GPS**

**Geospatial Big Data and Machine Learning**

## SOCIAL ACTIVITIES

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[ 03/06/2020 – 02/06/2022 ] Islamabad

**Member of CSWO Management** Chitral Student welfare Organization (CSWO) Managing different program for new student from Chitral and arranging different educational session for the students.

[ 03/10/2020 – 05/08/2022 ] Rawalpindi

**Member of CSA Management** As a member of the CSA (Chitral Student Association) at Arid Agriculture University, I assist and guide students from Chitral with various aspects of their university experience. This includes providing support with the admission process, navigating hostel admissions, offering career counseling, and helping students resolve financial issues. My role is dedicated to ensuring that students from Chitral have a smooth and successful transition to university life.

[ 05/10/2021 – Current ]

**Member of SOGIRS** The Society of Geo-Informatics & Remote Sensing (SOGIRS) is the official forum of the Institute of Geo-Information and Earth Observation. It brings together concerned students and alumni. The purpose of this group is to keep all members up-to-date with the latest happenings in the field, whether in industry or academia.

Additionally, we arrange market-demand courses for students, either online or on-site. I am responsible for managing these courses and teaching the specific topics covered.

## COMMUNICATION AND INTERPERSONAL SKILLS

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**Oral Presentation Skills** Throughout my bachelor's and master's programs, I presented on a wide range of topics, including my undergraduate research project.

**Oral Presentation Skills** As Team Lead for Comp 19, I prepared a project report and defended our work at the USF, addressing the queries of the GIS team.

## VOLUNTEERING

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**Empowering Local Education through Guidance and Teaching** During my college and university vacations, I returned to my hometown to offer free tuition to local students. I guided them through their coursework, provided career counseling, and raised awareness about modern developments and opportunities. This initiative aimed to support and empower the students in my community, helping them achieve their academic and career goals.

[ 03/06/2020 – Current ] Parabeg Garam chashma

**Member of Local council Parabeg** While working with the local council in Parabeg, I was responsible for enhancing youth education, with a specific focus on research and the IT sector.

[ 11/06/2021 – Current ] Gufti Garam chasma Chitral

**Senior advisor of Gufti Development forum** As a member of the Gufti Development Forum since 2021, I have worked to raise awareness about COVID-19 among the community During Covid pandemic. Our efforts have positively impacted the village, leading to significant development initiatives in Gufti.

## LANGUAGE SKILLS

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**Mother tongue(s):** Khowar (Chitrali)

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

**Urdu**

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

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

## RECOMMENDATIONS

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**Name: Dr. Muhammad Amin** | Assistant Professor

I have known Abdul Wahid for several years. He is a young man of strong character, a selfless and kind person who fully embodies all the traits of a potential candidate for your program. He is wonderful in his dedication, work ethic, and academic achievements. I strongly recommend Abdul Wahid for your Ph.D. program and wish him good luck in his future endeavors. Please feel free to contact me if you have questions regarding his abilities and academic work.

**Email:** [m.amin@uaar.edu.pk](mailto:m.amin@uaar.edu.pk) | **Phone number:** (+92) 3217210752

**Name: Dr. Muhammad Imran** | Assistant Professor

Abdul Wahid is a young man of strong character, a selfless and kind person who fully embodies all the traits as a potential candidate for your program. I highly recommend Abdul Wahid for your Ph.D program and I wish him good luck in his future endeavors. Please feel free to contact me if you have questions regarding his abilities and academic work.

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