



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 6857

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Scienze e Politiche Ambientali (ESP)

Responsabile scientifico: Prof.ssa Diolaiuti

Anees Ahmad

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Ahmad
Nome	Anees

OCCUPAZIONE ATTUALE

Incarico	Struttura
PhD Student	Department of Environmental Science and Policy (ESP)

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Remote Sensing & Geoinformation Science	Institute of Space Technology Islamabad	2018
Specializzazione			
Dottorato Di Ricerca	Environmental Science and Policy	University of Milan	2024
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	Proficient user
Pashto	Proficient user
Urdu	Proficient user
Italian	Basic user

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2022-2024	Programma Operativo Nazionale (PON) scholarship (Scholarship was funded through the National Operative Program "Research and Innovation" 2014-2020 with respect to Action IV.4 "PhDs and research contracts on innovation issues" and to Action IV.5 "PhDs on green issues" for active and accredited PhD Courses for the XXXVII cycle).
2011-2012	Pakistan Government's Need-Based Scholarships are for talented youth with limited resources who need to access higher education.

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività

- HYPE multi-basin modeling and using World-Wide HYPE (WWH) at local to regional scales, 4-6 September 2024, Norrköping, Sweden
- Trans-Atlantic Training 2024 (TAT-11) Earth Observation and Machine Learning for Disaster Mapping, 14 - 17 July 2024, Chania, Greece
- International Remote Sensing Summer School Experiencing Remote Sensing on Mont Blanc (Italian Western Alps, Courmayeur): Remote and proximal sensing for monitoring alpine environment 17-21 June 2024, Courmayeur, Italy
- Collegio futuro Class 2023/24 Interdisciplinary PhD training on the topic "Towards a sustainable aquaculture" Heidelberg, Germany
- 12th Advanced Training Course on Land RS: Hydrology and Hazards 25-29 September 2023, Wrocław, Poland
- GIS and Remote Sensing (Data Image Acquisition, Analysis, and Applications) and Application in Glacier Monitoring 02-10 May 2023, Karakoram International University, Gilgit, Pakistan
- Active and Passive Satellite Data Analysis Using Cloud Computing for Surface Water/Flood Mapping For Water-Related Applications; Water Learning Center (WLC), United Nations University, January 2023 (Online)
- Satellite Observations for Analyzing Natural Hazards on Small Island Nations, NASA's Applied Remote Sensing Training Program (ARSET) August 2021, NASA
- International Training Workshop on Earth Observations for Sustainable Development in Developing Countries 12-16 July 2021, China



- The Mangroves Biodiversity & Ecosystem for Water-Related Application, Water Learning Center (WLC), United Nations University, February 2021 (Online)
- Forest Mapping and Monitoring with SAR Data, NASA's Applied Remote Sensing Training Program (ARSET), May 2020, NASA

ATTIVITÀ PROGETTUALE

Anno	Progetto
2023-2024	<p>"Glaciers and Students" - Making an updated inventory of glaciers in Pakistan</p> <p><i>Roles and responsibilities</i></p> <ul style="list-style-type: none">- Conducting training sessions for students from various disciplines, including disaster management, environmental sciences, earth sciences, and forestry, on the applications of remote sensing and Geographic Information Systems (GIS)- Instructing students on how to obtain free satellite data, process it effectively, and analyze it using advanced techniques for glacier monitoring- Guiding them in creating accurate maps and presenting results, focusing on glacier monitoring.- Contributing to developing and updating glacier inventories, including validation processes- Assisted in drafting comprehensive reports on glacier inventory and monitoring results.- Creation of glacier inventories and multitemporal comparison
2022-2024	<p>Teaching activities</p> <ul style="list-style-type: none">- Course Instruction: Led crash courses and semester course 'geodiversity' emphasizing the application of Remote Sensing and GIS technologies in geography and the diverse nature of planet Earth.- Curriculum Development: Developed course materials and lab exercises focusing on the analysis of geodiversity, glaciers, and lakes using Remote Sensing and GIS tools.- Hands-on Training: Provided practical training in satellite data acquisition, processing, and analysis, specifically for monitoring glaciers and lakes.- Data Analysis: Guided students in using Remote Sensing software for geodiversity mapping, including identifying and classifying geological features.- Research Supervision: Supervised student research projects related to geodiversity, glaciers, and lakes, fostering their ability to use advanced geospatial technologies.- Assessment and Evaluation: Evaluated student performance through practical assignments, lab work, and exams, ensuring a comprehensive understanding of geodiversity applications in GIS and Remote Sensing.- Collaboration: Worked closely with other faculty members to integrate geospatial technology into broader environmental science curricula.
2022-2023	<p>Exploring the Application of Advanced Remote Sensing and Life Cycle Assessment (LCA) in Agriculture and Carbon Credits Generation</p>



	<p><i>Roles and responsibilities</i></p> <ul style="list-style-type: none">- Combining remote sensing data with LCA to provide a comprehensive view of carbon sequestration and emissions.- Validation of carbon credits by integrating spatial data with lifecycle impact assessments.- Use of LCA to verify the sustainability claims of agricultural practices monitored through remote sensing.- Support for certification schemes and carbon credit programs by linking field data with lifecycle analysis.
2016-2022	<p>Individual Contractor</p> <p>United Nations High Commissioner for Refugees (UNHCR)</p> <p><i>Roles and responsibilities</i></p> <ul style="list-style-type: none">- Use GIS to map and manage data on asylum seekers.- Apply remote sensing to monitor refugee camp conditions and expansion.- To maintain asylum seeker databases and analyze spatial patterns.- Employ remote sensing to assess environmental challenges around camps.- Leverage GIS for mission planning and safe route identification.- Provide spatial analyses and maps via GIS to address queries on asylum seeker distribution and service accessibility.- Use remote sensing data to inform responses related to environmental or conflict-related impacts.
2013-2014	<p><i>Livelihood Project -Muslim Hands International, Peshawar, Pakistan</i></p> <p><i>Roles and responsibilities</i></p> <ul style="list-style-type: none">- To oversee and validate the accurate setting out of construction works, ensuring alignment with geospatial plans.- Employ remote sensing to monitor site conditions and ensure compliance with approved layouts.

TITOLARITÀ DI BREVETTI

Brevetto



CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
March 2024	Glaciers & Students: The New Glaciers Inventory of Pakistan	Grenoble, France
Jun 2023	Economia circolare e acquacoltura: un connubio possibile?	Milan, Italy
September 2023	Glacier Delineation and Surface Analysis Using Optical and InSAR Data: A Case Study of Pakistan	Wroclaw, Poland
July 2022	III Convegno AISSA#under40, Facoltà di Scienze e Tecnologie, Libera Università di Bolzano-Bozen	Bolzano, Italy
February 2022	Remote Sensing Image Acquisition, Analysis and Applications	Online by The University of New South Wales
September 2021	Monitoring Coastal and Estuarine Water Quality: Transitioning from MODIS to VIIRS	Online by NASA
May 2015	Workshop on Forest Aboveground Biomass Estimation Using Synthetic Aperture Radar in Synergy with Other Methods	Islamabad, Pakistan

PUBBLICAZIONI

Libri
<ul style="list-style-type: none">- <i>The new inventory of 13,032 glaciers in Pakistan: the "Glacier & Students" Project</i>, Milan, A, Ahmad., A, Auranzaib., Diolaiuti, G., Blanka, B., Marco, C., Fugazza, D., Gallo, M., & Melis, M. ISBN: 978-969-23176-1-0 (2024)

Articoli su riviste
<ul style="list-style-type: none">- <i>Fusion of Sentinel-1 Interferometric Coherence and Sentinel-2 MSI for Debris-Covered Glacier Boundary Delineation: Case Study of Batura, Passu, Ghulkin, and Gulmit Glaciers, Pakistan</i> Ahmad, A., Fugazza, D., Journal of Geografia Fisica e Dinamica Quaternaria, 2024- <i>New Remote Sensing Methodology to Map The Glacier Extent: The New Inventory of Glaciers In Pakistan</i>. Melis, M. T., Fugazza, D., Naitza, L., Gallo, M., Dessì, F., Casu, M., Ahmad, A., Barbagallo, B., Diolaiuti, G., & Senese, A., AIT Italian Society of Remote Sensing, (Under Review, Minor Revisions), 2024- <i>Rice cultivation and processing: Highlights from a life cycle thinking perspective</i>. Science of the Total Environment, 871(December 2022), 162079. https://doi.org/10.1016/j.scitotenv.2023.162079- Science of The Total Environment (Elsevier – Q1 – Impact Factor 8.2), Ahmad, A., Zoli, M., Latella, C., & Bacenetti, J., 2023- <i>Mapping the Displaced Population with Reference to Social Vulnerabilities for Post-Disaster Public</i>



<i>Health Management</i> , https://geospatialhealth.net/index.php/gh/article/view/576 , Geospatial Health (Page Press – Q2 - Impact Factor 1.81), Junaid Ahmad, Mokbol Morshed Ahmad, Ahmad, A., Nafees Ahmad, 2017
- <i>Using Selected Global Health Indicators to Assess Public Health Status of Population Displaced by Natural and Man-made Disasters</i> , http://dx.doi.org/10.1016/j.ijdr.2017.03.005 , International Journal of Disaster Risk Reduction (Elsevier – Q1 - Impact Factor 4.30), o Junaid Ahmad, Mokbol Mosrshed Ahmad, Haleema Sadia, Anees Ahmad, 2017
- <i>Gender-Sensitive Public Health Risks and Vulnerabilities' Assessment With Reference To Floods in Pakistan.</i> <i>International Journal of Disaster Risk Reduction</i> 19 (2016): n. Pag. 31, http://dx.doi.org/10.1016/j.ijdr.2016.08.024 , International Journal of Disaster Risk Reduction (Elsevier – Q1 - Impact Factor 4.30), o Haleema Sadia, Muhammad Jawed Iqbal, Junaid Ahmad, Arshad Ali, and Anees Ahmad, 2016

Atti di convegni
- Glacier Delineation and Surface Analysis Using Optical and InSAR Data: A Case Study of Pakistan, 12th ESA Land Remote Sensing Advanced Course 2023 (Poster presentation)
- Geospatial Application of Groundwater Quality Index for Lahore Metropolitan, Pakistan: A Retrospective Approach. 2021 7th International Conference on Aerospace Science and Engineering, ICASE 2021. https://ieeexplore.ieee.org/document/9904217 2021
- Ahmad, A. (2019). Exploring the Potential of Sentinel-2 Data for Lithological Mapping. International Conference on Aerospace Science & Engineering (ICASE) 2019, Institute of Space Technology Pakistan. 2019

ALTRE INFORMAZIONI

<p>My skills encompass satellite image processing and interpretation for various applications, including geological mapping, land cover mapping, and glacier monitoring. With a solid foundation in remote sensing and GIS analysis, I possess the expertise to acquire, process, and analyze satellite imagery to extract valuable information across diverse disciplines. This includes identifying geological features, mapping land cover types, water quality monitoring, monitoring urban growth, and analyzing environmental changes. My proficiency in satellite image processing techniques allows me to generate accurate and insightful maps and datasets that contribute to a wide range of research, planning, and decision-making processes.</p>

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: Mialn, 17/09/2024

Università degli Studi di Milano - Direzione Trattamenti Economici e Lavoro Autonomo

Ufficio Contratti di formazione e Ricerca

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