Muhammad Waseem

Assistant Professor

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Contact:



About

Dr. Muhammad Waseem is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Muhammad Waseem has a PhD in Water Management and Climate Change. Dr. Muhammad Waseem has published 30 research articles & conference papers having a citation count of 433, carried out 0 projects and filed 0 intellectual property.

Qualifications

Universität Rostock , Germany MSc in Water Resources and Environmental Management Universität Hannover , Germany MSc in Water Resources Engineering UET Lahore , Pakistan BSc in Agriculture Engineering BZU, Multan , Pakistan Experience Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences		
Universität Hannover , Germany MSc in Water Resources Engineering UET Lahore , Pakistan BSc in Agriculture Engineering BZU, Multan , Pakistan Experience Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor		2016 - 2021
UET Lahore , Pakistan BSc in Agriculture Engineering BZU, Multan , Pakistan Experience Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor	· ·	2013 - 2015
Experience Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor		2010 - 2013
Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor 202 School of Interdisciplinary Engineering & Sciences		2006 - 2010
School of Interdisciplinary Engineering & Sciences Assistant Professor School of Interdisciplinary Engineering & Sciences Assistant Professor 20	xperience	
School of Interdisciplinary Engineering & Sciences Assistant Professor 20		2024- Present
		2024 - 2024
		2021 - 2023
Assistant Professor Swedish College of Engineering and Technology , Swedish College of Engineering and Technology		2021 - 2021

Research Articles

Research Assistant

Efficient bridge steel bearing health monitoring using laser displacement sensors and wireless	2024
accelerometers	

Hafiz Ahmed Waqas Mehran Sahil Abdullah Riaz Shiraz Ahmed Muhammad Waseem Hermann Seitz Frontiers in Built Environment, Volume 10, Article Number 1396815

Impact Factor: 2.2 | Quartile: 2 | Citations: 4 DOI: https://doi.org/10.3389/fbuil.2024.1396815

University of Rostock, Germany, University of Rostock, Germany

Climate change-induced spatiotemporal variations of land use land cover by using multitemporal satellite imagery analysis

Muhammad Waseem Izhar Ahmad Sadaquat Hussain Megersa Kebede Leta Journal of Water and Climate Change, Article Number:jwc2024675, Pages:23

Impact Factor: 2.8 | Quartile: 2 | Citations: 4

DOI: 10.2166/wcc.2024.675

Experimental investigation of pier scour depth and its scour hole pattern for different shapes

Muhammad Waseem Kaleem Afzal Khan Mehtab Alam Mujahid Khan Megersa Kebede Leta Journal of Infrastructure, Policy and Development, Volume 8(4), Article Number 3096

Impact Factor: 1.000 | Quartile: 4 | Citations: 2

2024

2024

2016 - 2019

Hydrological risk assessment for Mangla Dam: compound effects of instant flow and precipitation 2023 peaks under climate change, using HEC-RAS and HEC-GeoRAS Muhammad Waseem Izhar Ahmad Ammar Ashraf Megersa Kebede Leta Sareer Ahmad Hira Wahab SN Applied Sciences, Volume 5, Issue 12, Article Number 344 Impact Factor: 2.800 | Quartile: 2 | Citations: 1 DOI: 10.1007/s42452-023-05579-2 Urban flood risk assessment using AHP and geospatial techniques in swat Pakistan 2023 Muhammad Waseem Sareer Ahmad Izhar Ahmad Hira Wahab Megersa Kebede Leta SN Applied Sciences, Volume 5, Issue 8, Article Number 215 Impact Factor: 2.800 | Quartile: 2 | Citations: 23 DOI: 10.1007/s42452-023-05445-1 Rainwater Harvesting as Sustainable Solution to Cope with Drinking Water Scarcity and Urban 2023 Flooding: A Case Study of Public Institutions in Lahore, Pakistan Muhammad Waseem Syed Mutahir Ullah Ghazi Nameer Ahmed Muhammad Ayaan Megersa Kebede Leta CivilEng, Volume 4, Issue 2, Pages 638-656 Impact Factor: 0 | Citations: 7 DOI: https://doi.org/10.3390/civileng4020037 Sediment yield estimation and evaluating the best management practices in Nashe watershed, Blue 2023 Nile Basin, Ethiopia Muhammad Waseem Megersa Kebede Leta Khawar Rehman Jens Tränckner Environmental Monitoring and Assessment, Volume 195, Issue 6, Article Number 716 Impact Factor: 3.000 | Quartile: 3 | Citations: 22 DOI: 10.1007/s10661-023-11337-z Spatial Assessment of Soil Erosion Risk Using RUSLE Embedded in GIS Environment: A Case Study 2023 of Jhelum River Watershed Muhammad Waseem Fahad Iqbal Muhammad Humayun Muhammad Umais Latif Tayyaba Javed Megersa Kebede Leta Applied Sciences, Volume 13, Issue 6, Article Number 3775 Impact Factor: 2.7 | Quartile: 2 | Citations: 13 **DOI:** 10.3390/app13063775 Influence of Haunch Geometry and Additional Steel Reinforcement on Load Carrying Capacity of 2023 Reinforced Concrete Box Culvert Muhammad Waseem Hafiz Ahmed Waqas Abdullah Riaz Muhammad Ilyas Muhammad Naveed Hermann Seitz Materials, Volume 16, Issue 4, Article Number 1409 Impact Factor: 3.4 | Quartile: 2 | Citations: 7 DOI: 10.3390/ma16041409 Spatial-Temporal Seasonal Variability of Extreme Precipitation under Warming Climate in Pakistan 2023 Muhammad Waseem Sohail Abbas Muhammad Yaseen Yasir Latif Megersa Kebede Leta Tallal Hassan Khan Sher Muhammad Atmosphere, Volume 14, Issue 2, Article Number 210 Impact Factor: 2.900 | Quartile: 3 | Citations: 8 DOI: 10.3390/atmos14020210 2022 Tree-based machine learning models for prediction of bed elevation around bridge piers Muhammad Waseem Khawar Rehman Yung-Chieh Wang Seung Ho Hong Physics of Fluids, Volume 34, Issue 8, Article Number 085105 Impact Factor: 4.600 | Quartile: 1 | Citations: 11 DOI: 10.1063/5.0098394 Spatiotemporal Analysis of Climatic Extremes over the Upper Indus Basin, Pakistan 2022 Muhammad Waseem Sohail Abbas Muhammad Yaseen Yasir Latif Sher Muhammad Megersa Kebede Leta Sadaf Sher Muhammad Ali Imran Muhammad Adnan Tallal Hassan Khan Water, Volume 14, Issue 11, Article Number 1718 Impact Factor: 3.4 | Quartile: 2 | Citations: 9 DOI: 10.3390/w14111718 Contemporary Trends in High and Low River Flows in Upper Indus Basin, Pakistan 2022

Muhammad Waseem Muhammad Yaseen Yasir Latif Megersa Kebede Leta Sohail Abbas Haris Akram Bhatti

Water, Volume 14, Issue 3, Article Number 337

Impact Factor: 3.4 | Quartile: 2 | Citations: 6

DOI: 10.3390/w14030337

Assessment of PERSIANN-CCS, PERSIANN-CDR, SM2RAIN-ASCAT, and CHIRPS-2.0 Rainfall Products

2022

over a Semi-Arid Subtropical Climatic Region

Muhammad Waseem Muhammad Naveed Anjum Muhammad Irfan Megersa Kebede Leta Usama Muhammad Niazi Saif ur Rahman Abdulnoor Ghanim Muhammad Ahsan Mukhtar Muhammad Umer Nadeem

Water, Volume 14, Issue 2, Article Number 147 Impact Factor: 3.4 | Quartile: 2 | Citations: 33

DOI: 10.3390/w14020147

Estimation of potential soil erosion and sediment yield: A case study of the transboundary chenab river

2021

Muhammad Waseem Muhammad Gufran Ali Sikandar Ali Rao Husnain Arshad Aftab Nazeer Muhammad Mohsin Waqas Rana Ammar Aslam Muhammad Jehanzeb Masud Cheema Megersa Kebede Leta Imran Shauket

Water, Volume 13, Issue 24, Article Number 3647 Impact Factor: 3.530 | Quartile: 2 | Citations: 18

DOI: 10.3390/w13243647

Analysis of hydrological characteristics of blue nile basin, nashe watershed

2021

Muhammad Waseem Megersa Kebede Leta Tamene Adugna Demissie

Applied Sciences, Volume 11, Issue 24, Article Number 11791

Impact Factor: 2.838 | Quartile: 2 | Citations: 3 **DOI:** https://doi.org/10.3390/app112411791

Flood mitigation in the transboundary chenab river basin: A basin-wise approach from flood forecasting to management

2021

Muhammad Waseem Sikandar Ali Muhammad Jehanzeb Masud Cheema Muhammad Mohsin Waqas Megersa Kebede Leta Muhammad Uzair Qamar

Usman Khalid Awan Muhammad Bilal Muhammad Habib ur Rahman Remote Sensing, Volume 13, Issue 19, Article Number 3916

Impact Factor: 5.349 | Quartile: 1 | Citations: 14

DOI: https://doi.org/10.3390/rs13193916

Evaluating the spatio-temporal distribution of irrigation water components for water resources management using geo-informatics approach

2021

Muhammad Waseem Muhammad Mohsin Waqas Sikandar Ali Megersa Kebede Leta Adnan Noor Shah Usman Khalid Awan Syed Hamid Hussain Shah Tao

Sustainability, Volume 13, Issue 15, Article Number 8607

Impact Factor: 3.889 | Quartile: 2 | Citations: 4 DOI: https://doi.org/10.3390/su13158607

Statistical downscaling and hydrological modeling-based runoff simulation in trans-boundary mangla

2020

watershed pakistan

Yang Sami Ullah

Muhammad Waseem Muhammad Yaseen Yasir Latif Muhammad Imran Azam Ijaz Ahmad Sohail Abbas Muhammad Kaleem Sarwar Ghulam Nabi

Muhammad Waseem Junaid Nawaz Chauhdary Muhammad Zaman Shiyin Liu Muhammad Saifullah Muhammad Usman Junaid Nawaz Chauhdary

Water (Switzerland), Volume 12, Issue 11, Article Number 3254 Impact Factor: 3.103 | Quartile: 2 | Citations: 7

DOI: https://doi.org/10.3390/w12113254

Appraisal of climate change and its impact on water resources of pakistan: A case study of mangla watershed

2020

Muhammad Naveed Anjum

Atmosphere . Volume 11. Issue 10. Article Number 1071 Impact Factor: 2.686 | Quartile: 3 | Citations: 31 DOI: https://doi.org/10.3390/atmos11101071

Changes in snow cover dynamics over the indus basin: Evidences from 2008 to 2018 MODIS NDSI

2020

trends analysis

Muhammad Waseem Muhammad Mohsin Waqas Syed Hamid Hussain Shah Usman Khalid Awan Ishfaq Ahmad Muhammad Fahad Yasir Niaz Sikandar Ali Remote Sensing, Volume 12, Issue 17, Article Number 2782

Impact Factor: 4.848 | Quartile: 1 | Citations: 31 **DOI:** https://doi.org/10.3390/rs12172782

Investigation of input and output energy for wheat production: A comprehensive study for Tehsil Mailsi

2020

(Pakistan)

Muhammad Waseem Muhammad N. Ashraf Muhammad H. Mahmood Muhammad Sultan Narges Banaeian Muhammad Usman Sobhy M. Ibrahim

Muhammad U. B. U. Butt Imran Ali Aamir Shakoor Zahid M. Khan

Sustainability, Volume 12, Issue 17, Article Number 6884

Impact Factor: 3.251 | Quartile: 2 | Citations: 22

DOI: https://doi.org/10.3390/su12176884

Effects of elevated air temperature and CO2 on maize production and water use efficiency under future

2020

climate change scenarios in Shaanxi Province, China

Muhammad Waseem Qaisar Saddique Muhammad Imran Khan Muhammad Habib ur Rahman Xu Jiatun Thomas Gaiser Muhammad Mohsin Waqas Ijaz

Ahmad Li Chong Huanjie Cai

Atmosphere , Volume 11, Issue 8, Article Number 843

Impact Factor: 2.686 | Quartile: 3 | Citations: 36

DOI: https://doi.org/10.3390/atmos11080843

Improved representation of flow and water quality in a north-eastern german lowland catchment by

2020

combining low-frequency monitored data with hydrological modelling

Muhammad Waseem Jannik Schilling Frauke Kachholz Jens Tränckner

Sustainability, Volume 12, Issue 12, Article Number 4812

Impact Factor: 3.251 | Quartile: 2 | Citations: 4 DOI: https://doi.org/10.3390/su12124812

Evaluating the impact of climate change on water productivity of maize in the semi-arid environment of

2020

Punjab, Pakistan

Muhammad Waseem Muhammad Mohsin Waqas Syed Hamid Hussain Shah Usman Khalid Awan Ishfaq Ahmad Muhammad Fahad Yasir Niaz Sikandar Ali

Sustainability, Volume 12, Issue 9, Article Number 3905

Impact Factor: 3.251 | Quartile: 2 | Citations: 8 DOI: https://doi.org/10.3390/su12093905

Suitability of a coupled hydrologic and hydraulic model to simulate surfacewater and groundwater hydrology in a typical north-eastern germany lowland catchment

2020

Muhammad Waseem Frauke Kachholz Wolfgang Klehr Jens Tränckner

Applied Sciences, Volume 10, Issue 4, Article Number 1281

Impact Factor: 2.679 | Quartile: 2 | Citations: 33 DOI: https://doi.org/10.3390/app10041281