

# Muhammad Umair

Assistant Professor  
Institute of Geographical Information Systems

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## About

Dr. Muhammad Umair is working as Assistant Professor in the Institute of Geographical Information Systems. Dr. Muhammad Umair has a PhD in Water Resources Engineering. Dr. Muhammad Umair has published 6 research articles & conference papers having a citation count of 140, carried out 0 projects and filed 0 intellectual property.

## Qualifications

PhD in Water Resources Engineering	2016 - 2020
BE in Gis And Rs	2010 - 2014

## Experience

Assistant Professor	2021- Present
Institute of Geographical Information Systems	
Assistant Professor	2020- Present
Institute of Geographical Information Systems	
	- Present

## Awards

HEC	2016
Higher Education Commission (HEC), MS leading to Ph.D. scholarship.	

## Professional Memberships

PEC	Since 2015
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### Deep neural network for crop classification using multitemporal data: A case study of Sialkot, Pakistan

2024

Shoaib Akhtar Muhammad Ali Tahir Salman Atif Ejaz Hussain Muhammad Umair Muhammad Shahzad Qudsia Gulzar  
*Journal of Pure and Applied Agriculture*, Volume 9(2), Pages 95-108

**Impact Factor:** N/A

**DOI:** <https://ojs.aiou.edu.pk/index.php/jpaa/article/view/2765>

### Water use efficiency in terrestrial ecosystem over East Asia: Effects of climate regimes and land cover types

2021

Daeun Kim Jongjin Baik Minha Choi Daeun Kim Jongjin Baik Muhammad Umair Minha Choi  
*Science of the Total Environment*, Volume 773, Article Number 145519

**Impact Factor:** 10.754 | **Quartile:** 1 | **Citations:** 31

**DOI:** <https://doi.org/10.1016/j.scitotenv.2021.145519>

### Evaluation of atmospheric and terrestrial effects in the carbon cycle for forest and grassland ecosystems using a remote sensing and modeling approach

2020

Muhammad Umair Daeun Kim Ram L. Ray Minha Choi  
*Agricultural and Forest Meteorology*, Volume 295, Article Number 108187

**Impact Factor:** 5.734 | **Quartile:** 1 | **Citations:** 14

**DOI:** <https://doi.org/10.1016/j.agrformet.2020.108187>

### Impact of climate, rising atmospheric carbon dioxide, and other environmental factors on water-use efficiency at multiple land cover types

2020

Muhammad Umair Daeun Kim Minha Choi  
*Scientific Reports*, Volume 10, Article Number 11644

**Impact Factor:** 4.380 | **Quartile:** 1 | **Citations:** 39

**DOI:** <https://doi.org/10.1038/s41598-020-68472-7>

### Impacts of land use/land cover on runoff and energy budgets in an East Asia ecosystem from remotely sensed data in a community land model

2019

Muhammad Umair Daeun Kim Minha Choi  
*Science of The Total Environment*, Volume 684, Pages 641-656

**Impact Factor:** 6.551 | **Quartile:** 1 | **Citations:** 25

**DOI:** <https://doi.org/10.1016/j.scitotenv.2019.05.244>

### Estimating land surface variables and sensitivity analysis for CLM and VIC simulations using remote sensing products

2018

Muhammad Umair Daeun Kim Ram L. Ray Minha Choi  
*Science of The Total Environment*, Volume 633, 15 August 2018, Pages 470-483

**Impact Factor:** 5.589 | **Quartile:** 1 | **Citations:** 31

**DOI:** <https://doi.org/10.1016/j.scitotenv.2018.03.138>