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Designation		Lecturer			
Department		Environmental Sciences			
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Qualification					
Year	Degree/Certificate	Name of the Institute/ University		Field of study	
2019	PhD (in progress)	BUITEMS, Quetta Balochistan		Environmental Science	
2017	MS/ MPhil	Quaid-e-Azam University, Islamabad		Environmental Science	
2014	Graduation	Quaid-e-Azam University, Islamabad		Environmental Science	
Publications in HEC Recognized journals					
S. No	Title of Paper		Name of Journal	National/ International	Publication date
1	First Evidence of Gaseous Elemental Mercury Emissions from Informal E-Waste Recycling Facilities in Pakistan.		Waste Management	International	(2023)
2	Micro-synteny conservation analysis revealed the evolutionary history of bacterial biphenyl degradation pathway.		Environmental Microbiology Reports	International	(2022)
3	Groundwater fluoride concentrations in the watershed sedimentary basin of Quetta Valley, Pakistan.		Environmental Monitoring and Assessment	International	(2021)
Work Experience					
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held	
1	Sep 2019	Till Date	Department of Environmental Science, BUITEMS	Lecturer	
2	Jun 2017	Jul 2019	Department of Environmental Science, BUITEMS	Lecturer (Ad-hoc)	
3	June 2017	Mar 2021	Department of Environmental Science, BUITEMS	Departmental Focal Person	
4	Aug 2016	May 2017	Quaid-e-Azam University, Islamabad	Assistant to Professor	

5	Dec 2015	Feb 2016	Monitoring Arsenic and Fluoride – free aquifers in Punjab (USAID) funded project.	Field Monitoring and Testing
6	Oct 2014	Dec 2014	(IUCN) International Union for Conservation of Nature	Intern (Field Data Collection)
Area of specialization			Hydrogeochemistry	
Research Interest			Mr. Taimoor Shah Durrani has been engaged in the field of Environmental Science for more than 10 (ten) years. His area of research interest focuses on Environmental monitoring in general and Groundwater monitoring, groundwater accounting, Hydro-geochemistry, Hazard characterization and Health Risk Assessment from environmental chemicals in particular.	
Future Research Plans			Regional groundwater dating, budgeting, and assessing the influence of hydrological variations on groundwater.	
Research Collaboration			<ul style="list-style-type: none"> • Collaborative project with Comsat University, Islamabad entitled “Investigation of selected Persistent Organic Pollutants (POPs) and heavy metals pollution from E-waste processing facilities” funded by Pakistan Science Foundation (PSF) (2019-2022). • World Geogenic distribution of Fluoride in Groundwater, 2024. 	
Ongoing Research			<ul style="list-style-type: none"> • Health risk associated with Fluoride and Potentially Toxic Elements (Pb, Cd, Cu, Mn, Ni etc) through drinking water, to people of Quetta. • PTEs characterization and source apportionment in roadside dust samples their associated health risk and geospatial distribution through GIS. • Hydrogeochemical modeling of Quetta. • Machine Learning and Modflow Modelling-based simulations and prediction of groundwater Quetta. 	
<u>Additional Information</u>				
<u>Conferences/ Workshop/Training and Consultations</u>				
Three days Training on <i>Mastering Advanced Statistical Tools, Report Writing and Presentation Skills</i> organized by the International Center for Refugees and Migration (ICRMS) from 12-15 July, 2024.				
Three days Bio-risk Management Complementary Training funded by Health Security 13-15 th June 2024.				
Organized National Seminar (Environmental Challenges in Balochistan) with ASIAN on 6 th June 2024.				
Attended One-Day Stakeholder Consultations for Environmental Flow assessments in the Indus Basin organized by the International Water Monitoring Institute (IMWI) on 16 th November, 2023.				
Training on <i>Validation of Agro-ecological zones of Balochistan</i> organized by FAO 24-26 th September 2023.				
Training on Implementing <i>Basel Convention’s Amendments</i> for Enhanced Control of Plastic Waste Movements in Pakistan in Karachi on 2 nd Aug 2023.				
Training on <i>Machine Learning and Grace Application</i> in Water Resources at MUET, 22-24 th May 2023.				
Workshop on Environmental and Social Framework (Learning program on Collaboration for Resilience (C4R) under Sind and Balochistan Chapter organized by World Bank, from 13-14 th March, 2023.				
Workshop on <i>Transformation and adaptation against climate variability</i> affected areas (TACVA) 13 th May 2022.				
National Consultation on a Framework for Addressing the <i>Impacts of Drought in Balochistan</i> , organized by Islamic Relief. 26 th Nov 2019.				
Training on <i>Professional skill development</i> at BUITEMS 22 nd Oct to 6 th Nov, 2019.				

Provincial water dialogues (Sustainable perspective on groundwater policy) 14th Nov, 2018.

Workshop on Legislative/Policy Review and Gap Analysis for Balochistan on Climate Change organized by UNDP and Lead, Pakistan. 8th Oct, 2017.

International Workshop on Water, Sanitation, and Resource Recovery solution for sustainable development 6-7th Apr, 2017 (NUST) Islamabad.

National Conference on Recommendations for Pakistan Water Policy organized by HISAAR Foundation 27th Jan, 2017 Islamabad.

Regional Workshop by Association of Academies and Societies of Sciences in Asia and Pakistan Academy of Sciences "(AASSA-PAS) on Challenges In Water Security to meet the growing food requirements" 16-19th Jan, 2016 Islamabad.

Others

Achievements

- Monitoring of potentially toxic elements in the air and soil of selected E-waste collecting sites associated health risk to population, Quetta. Published in Elsevier (Environmental Pollution Journal), 2024.
- Won 1st Prize in EMS (Zero Emission Building) in WWF Nature Carnival 2014.

Membership

Society for Environmental Geochemistry and Health (SEGAH), United Kingdom (U.K), 2024.

Speaker

Groundwater quality and health effects associated with toxic fluoride in drinking water on 6th June 2024.

Engagement session with PHED, Academia and other stakeholders on IWRM 3rd July 2023.

Future of Balochistan in response to climate change and Drought 13th September 2018.

Coursera Certificates

Fundamentals of GIS (University of UCDAVIS) 10th Jul, 2023.

Introduction to GIS Mapping (University of Toronto) 13th Jun, 2023.

AI for Everyone (Deep Learning.AI) 13th May, 2023.