

TOQEER AHMED

Country Pakistan
City Islamabad
Designation Assistant Professor



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Dr. Toqeer Ahmed is currently working as Assistant Professor, Centre for Climate Research and Development (CCRD), COMSATS University Islamabad. Since his education, he has worked at responsible positions in several different Government departments and R & D organizations. He has completed several national as well as international projects in collaboration with the University of Edinburgh, UK and International NGOs. He has >30 research publications in the field of food and water quality assessment, wastewater treatment, climate impacts on health and Nano-biotechnology. Dr. Ahmed has lectured and presented research papers in both national and international conferences. He is currently working in the field of Environmental Microbiology, Climate Change, Water Management and Environmental Nanotechnology. He is on the Editorial Boards of few International impact factor Journals and active member of scientific societies. Different MS and Ph.D. positions are available in his research group to work on sustainable water management, water quality and climate change impacts on health impacts, MNPs impacts on waterborne and vector borne diseases. The HEC indigenous scholars and summer and winter interns are highly encouraged to apply for their R&D work.

Educational Information

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<u>Year</u>	<u>Degree</u>	<u>Board / University</u>
2010	Ph.D.	Quaid-i-Azam University / The Univ. of Edinburgh
2017	Post Graduate Training	NIEER, CAS, China
2011	Post Graduate Training	The University of Edinburgh, UK
2017	Post Graduate Training	German Kazakh University
2018	Post Graduate Training	Federal Institute of Hydrology, Koblenz, Germany

Academic Experience

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<u>From</u>	<u>To</u>	<u>Post Held</u>	<u>Organization</u>
May 2, 2012	Present	Assistant Professor	COMSATS IIT
March 1, 2010	April 30, 2012	Assistant Professor	PINSAT
Apr. 2004	Apr. 2006	Lecturer	APSACS
Jan 2007	Oct. 2008	Subj. Specialist Biology	Punjab Education Foundation

Supervision

<u>Title</u>	<u>From</u>	<u>To</u>	<u>Organization / Institute</u>	<u>Type</u>
Comparative study of Coagulation and AO Processes for the removal of silver nanoparticles from Waster water	2013	2014	COMSATS IIT	Research Supervision
Water Quality Assessment of different Academic institutions of Abbottabad City and Its Health Impacts	2012	2013	COMSATS IIT	Research Supervision
Physico-Chemical Quality Assessment of Wheat Flour Collected from Different Mills of Hazara Division, KPK, Pakistan	2012	2013	COMSATS IIT	Research Supervision
Studies on bio-deterioration and related health issues in fungal infested old buildings	2015	2016	CCRD, CIIT	Research Supervision
Study of Nanotechnology applications for the control of vectors....	2017	2018	CCRD, CU	Project Supervision

Active Collaborations

<u>From</u>	<u>To</u>	<u>Type</u>	<u>Country</u>	<u>Organization</u>
2011	2016	Research	United Kingdom	University of Salford

Funding

<u>From</u>	<u>To</u>	<u>Type</u>	<u>Title</u>	<u>Source</u>	<u>Amount</u>
2013	2014	Research Grant	• Bacteriological Water Quality Assessment of different Institutions of Abbottabad City in Khyber Pakhtunkhwa – Pakistan	HEC	0.50
2014	2015	Research Grant	• Physico-Chemical Quality Assessment of Wheat Flour Collected from Different Mills of KPK, Pakistan	CRGP	0.20
2011	2013	Research Grant	• Antibacterial Activity of Ag Nano-Particles against Waterborne Pathogens	PAS	2.00
2011	2011	Research Grant	• Development of Biosensors to Determine the Toxicity of Metallic Nano-particles against Waterborne Pathogens	RSE & PAS	0.50
July 2015	July 2016	Research Grant	The Vulnerability of Pakistan's Water Sector to the Impacts of Climate Change: Identification of gaps and recommendations for action	Italian	2.66
July 2015	Dec 2016	Research Grant	The Vulnerability of Pakistan's Water Sector to the Impacts of Climate Change: Identification of gaps and recommendations for action	Italian Embassy	2.66

Publications

Key Publications

- Faridullah, Didar Ahmad, Toqeer Ahmed "Sociodemographic characters, distribution and transformation of iodine in soil, plants and wheat grains at District Diamer, Gilgit Baltistan, Pakistan", *Env. Geochem and Health*, 2018.
- Faridullah, S. Hafeez, Toqeer Ahmed "Characterization of Phosphorus in Fresh and Composted Manures of Different Livestock", *PJOES*, 2018.
- Toqeer Ahmed, Z A Bhatti, Maqbool, F. "Comparative study of synthetic and natural coagulation processes for the removal of silver nanoparticles (AgNPs) from industrial Wastewater.", *Desalination and water treatment.*, 2016.
- Toqeer Ahmed, Furat A., Miklas Scholz "Water-Related Impacts of Climate Change on Agriculture and Subsequently on Public Health: A Review for Generalists with Particular Reference to Pakistan.", *IJERPH*, 2016.
- Faridullah, "Study of Potassium, Calcium and Magnesium in Soil and Rice Irrigated from Fresh and Waste Water Canal", *FEB*, 2016.
- Yasser Durrani, "Effects of Chemical Preservatives on Mango Squash Stored under Different Temperature Regimes.", *Minerva Biotechnologica*, 2016.
- Toqeer Ahmed, AH Malik, "Open drainage: A need to minimise the impacts on water resources and health.", *Dawn*, 2016.
- Naz, A., "Toxicity and bioaccumulation of heavy metals in spinach (*Spinacia oleracea*) grown in controlled environment", *IJERPH*, 2015.
- Toqeer Ahmed, Saeed Asad, "Is your plastic container poisoning your water?", *Dawn*, 2015.
- Saeed Asad, Toqeer Ahmed, "Green Buildings: A Need to minimize environmental impacts.", *Dawn*, 2015.
- T. AHMED, Imdad, S., Butt, N. M. "Bacteriological assessment of drinking water of Islamabad Capital Territory, Pakistan", *Desalination and Water Treatment*, 2015.
- TOQEER AHMED, A. Pervez, M. mehtab "Assessment of drinking water quality and its potential health impacts in academic institutions of Abbottabad (Pakistan)", *Desalination and Water Treatment*, 2015.
- Faridullah, "Fractionation of Phosphorus in Human and Animal Wastes", *Minerva Biotechnologica*, 2015.
- Toqeer Ahmed, "Awareness and Attitude About Nanotechnology in Pakistan", *Int. J. of Nano Education*, 2015.
- Toqeer Ahmed, "Plant extracts as a vital source to reduce waterborne bacterial infections.", *Minerva Biotechnologica*, 2014.
- TOQEER AHMED, Yaldram, K., Imdad, S. "Emerging Nanotechnology Based Methods for Water Purification – A Review", *Desalination and Water Treatment*, 2014.
- TOQEER AHMED, Imdad, S., Ashraf, S. "Effect of Size and Surface Ligands of Silver (Ag) Nanoparticles on Waterborne Bacteria", *IJTAN*, 2013.
- Bajwa RS, "Nanotechnology research among some leading OIC member states", *J. Nanopart. Res.*, 2012.

T. AHMED,,"Evaluation and Risk Management by Using Ocimum bacillicum Against Waterborne Pathogens",HERA,2011.

T. AHMED,,"Coagulation and disinfection in water treatment using Moringa oleifera",Water Management,2010.

Kiran, T.M.,Scholz, M.,Ahmed, T."The synergy of permeable pavements and geothermal heat pumps for storm water treatment and reuse",Env. Technology,2010.

TOQEER AHMED,Kanwal, R.,Hassan, M."Coagulation and disinfection in water treatment using Moringa oleifera",Water Management,2010.

T. AHMED,,"Bacteriological analysis of water collected from different Dams of Rawalpindi / Islamabad Region in Pakistan",PJBS,2004.

R. kanwal,T. Ahmed,"Resistance of Bacillus cereus and E. coli towards lead, copper, manganese, iron and arsenic",PJBS,2004.

R. Kanwal,T. Ahmed,"Comparative analysis of milk collected from Rawalpindi and Islamabad",PJFS,2002.

T. AHMED,,"Isolation and identification of lactic acid producing bacteria from camel milk",Pak Vet. J.,2002.

Conferences

<u>Year</u>	<u>Conference</u>	<u>Type</u>	<u>Country</u>	<u>City</u>
2011	Infrastructure Middle East 2011	Presentation	Bahrain	Manama
2011	Fresh Water Crisis and Population Explosion	Presentation	Pakistan	Lahore
2010	Proceedings of the National Executive Management Seminar (NEMS)	Presentation	Pakistan	Islamabad
2012	ICNFA	Presentation	Canada	Montreal
2009	SUDSnet 2009 conference	Presentation	UK	England
2016	1st Saudi Conference on Environment	Presentation	KSA	Abha
2013	ESDev-2013	Participation	Pakistan	Abbottabad
2016	First Saudi Conference on Environment	Presentation	KSA	Abha, Aseer Region
2016	ESDev	Presentation	Pakistan	Abbottabad
2017	EsDev	Presentation	Pakistan	Abbottabad

Books

<u>Title</u>	<u>Subject</u>	<u>First Author</u>	<u>Second Author</u>	<u>Third Author</u>	<u>Year</u>	<u>Publisher</u>
Toqeer Ahmed, 2017. "Elucidation of emerging nanomaterials impacts on antibiotic resistance against soil and aquatic microflora". In a Book	Environment	Toqeer Ahmed			2017	Springer

titled ""Antibiotics and ARGs in Soils".

Courses Taught

<u>Course Code</u>	<u>Type</u>	<u>Title</u>	<u>University</u>	<u>Semester</u>
	Under Graduate	Poverty and Environment	COMSATS IIT	VIII
	Under Graduate	Environment and Health	COMSATS IIT	V
	Under Graduate	Research Methodology in Env. Sciences	COMSATS IIT	VII
	Under Graduate	Industrial Applications of Nanotechnology	PINSAT	I

Services

<u>From</u>	<u>To</u>	<u>Institute / Organization</u>	<u>Job Specification</u>
2013	2014	COMSATS IIT, Abbottabad	Faculty Proctor
2012	2014	COMSATS IIT, Abbottabad	Departmental Coordinator of Admission (Graduate Program)
2012	2014	COMSATS IIT, Abbottabad	Member Editorial Board of Newsletter
Dec. 2016	Present (Dec. 2017)	CCRD, COMSATS IIT, Islamabad	Administrative duties of CCRD including attendance record

Awards

<u>Year</u>	<u>Awarding Organization</u>	<u>Description</u>
2015	CIIT	RPA-2015
2011-2012	Preston University	Punctuality and Efficiency Award (Cash plus Certificates) by Preston University, Islamabad in recognition of outstanding efficiency in meeting all deadlines & submissions during Fall Semester 2011-2012
2007	PEF, Govt. of Punjab	Best Performance Award from Punjab Education Foundation, Government of Punjab.
2009	Certificate of Appreciation	Certificate of Appreciation for Mentor by Intel Education & Ministry of Education in collaboration with Pakistan Science Foundation (PSF) in 2009.
2016	COMSATS IIT	RPA

Languages and Skills

Languages

English, Urdu, Punjabi, Arabic

Skills

water quality, Wastewater treatment