



Uzma Shaheen

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INTRODUCTION

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I am Uzma Shaheen, a recent graduate from the Institute of Urban Environment, University of Chinese Academy of Sciences, where I completed my Master's degree in Environmental Engineering, funded through a competitive scholarship. I hold a Bachelor's in Environmental Sciences from Karakoram International University, Pakistan. My research interests include wastewater treatment, adsorption, nutrient recovery, solid waste management, toxicology, and plastic removal from aquatic organisms. I have developed strong expertise in material characterization techniques such as TEM, SEM, XPS, FTIR, XRD, BET, and mass spectrometry. My work focused on optimizing the simultaneous removal of low-concentration ammonia nitrogen and phosphate using various adsorbents.

EDUCATION AND TRAINING

Master's

Institute of Urban Environment, University of Chinese Academy of Sciences (CAS) [26/09/2018 – 20/11/2024]

City: Jimei | Country: China | Website: <http://www.iue.ac.cn/>

Bachelor's

Karakorum International University, Gilgit Pakistan [01/03/2013 – 25/06/2017]

City: Gilgit | Country: Pakistan | Website: <https://www.kiu.edu.pk/>

Higher Secondary School Certificate (HSSC)

Hasegawa Memorial Public School and College Karimabad [01/08/2010 – 15/08/2012]

City: Karimabad | Country: Pakistan | Website: <https://schoolvisor.org/schools/hasegawa-memorial-public-school-college/>

COURSE SUBJECTS OF BACHELOR'S AND MASTER'S

BS AND MS COURSE

Climatology, Ecology, Environmental Chemistry, Environmental ethics, Environmental pollution, Geology, pollution control and techniques, Occupation safety health and environment, Environmental impact assessment, Natural hazards, toxicology, Disaster management, introduction to earth sciences, Environmental law and policy, Statistics, Natural resource management, Material production and environment Science, Environmental Science and Advanced diagnostic technique, Introduction to Chinese culture, Global change ecology, Earth's climate change, Physical geography, Chemical Reaction Engineering, Energy Chemistry and Engineering, Applied statistics.

WORK EXPERIENCE

TRAINEE OFFICER

Najeebullah and Co Pvt Ltd [01/01/2020 – 30/07/2022]

City: Islamabad | Country: Pakistan

As Trainee officers I undergo hands-on training, shadow experienced colleagues, and contribute to research, aiming for a seamless transition into full-fledged roles.

RESEARCH INTERNEE

Civil society coalition for Climate Change [01/03/2017 – 01/08/2018]

City: Islamabad | Country: Pakistan

As a research intern, I would probably help with data collection and analysis, contribute to research initiatives, and keep up with current research. Supporting fieldwork, writing reports, and working with team members are just a few responsibilities that could be assigned.

RESEARCH INTERNEE

Yan Changzhou group, Institute of Urban Environment. [01/02/2025]

City: Xiamen | Country: China

As a research intern at the Institute of Urban Environment, I will assist in data collection and analysis for ongoing environmental projects, focusing on sustainable solutions. I will also contribute to literature reviews and experimental design to support research initiatives in ecological science.

PUBLICATIONS, SEMESTER PROJECTS, CONFERENCE ATTENDED, AWARDS, SPRING SCHOOL

Publications

1. Evaluation of potential adsorbents for simultaneous adsorption of phosphate and ammonium at low concentrations (Published as **first author**).
2. Fabrication of a novel zeolite/phoslock/activated alumina composite for effectively removing low-concentration phosphate and ammonium (Writing under process as **first author**).
3. Nanoplastic contamination: Impact on zebrafish liver metabolism and implication for aquatic environmental health. (Published as **co-author**).
4. Gut Microbiota Disruption in Zebrafish: Chronic Effects of Carboxyl Modified Polystyrene Nanoplastics. (Journal: Environmental Research, recently submitted as **co-author**).

Academics/Semester projects

1. Measuring Total Phosphorus and Total Nitrogen from wastewater.
2. Preparation and modification of different materials for wastewater treatment
3. Source-specific composition and quantification of solid waste in Altit Valley, District Hunzan.

Conferences attended

1. Performed duties as a Volunteer, The National Symposium on Sustainable Mountain Agriculture at Karakorum International University, Gilgit from 22 to 23 September 2016.
2. Performed duties as Volunteers, Stakeholders Consultant workshop on "Climate change adaptation and their prioritization in water, agriculture and energy".
3. Seminar on, the importance of mother milk organized by Nutrition cell of Health department Gilgit in collaboration with food department KIU. On 16 Nov 2016.
4. International workshop (11 to 16 June 2013) on Bio-Safety and Risk Management organized by the Department of Biological Science, Karakorum International University, Gilgit-Baltistan, Pakistan.

Honours and Awards

1. Belt and Road scholarship for three years from the Chinese Academy of Sciences, China.
2. HEC Need Based USAID Scholarship for three years at KIU Gilgit, Pakistan. (March 2013 Aug 2017).
3. Received a laptop during my university education under the Prime Minister scheme project. Remained Proctor throughout my education career from school to the university level.

[18/07/2019 – 22/07/2019]

Spring School

International spring school on 'Frontier and Interdisciplinary Sciences in Xi'an Institute of Optics and Mechanics (XIOPM)

MATERIAL CHARACTERIZATION SKILLS

X-ray Diffraction (XRD), FTIR (Fourier Transform Infrared Spectroscopy), SEM-EDS (Scanning Electron Microscopy with Energy Dispersive X-ray Spectroscopy), XPS (X-ray Photoelectron Spectroscopy), TEM (Transmission Electron Microscopy).

MATERIAL SYNTHESIS SKILLS

Co-precipitation, Impregnation Activation, Ball milling, Sol-Gel.

DIGITAL SKILLS

Adobe Photoshop, Illustrator, AI / Microsoft Office / END NOTE / Origin software (data processing and analysis) / Mendeley Citation Management / GraphPad / X'pert Highscore / Basic knowledge of STATA and SPSS (through

training in the social sciences) / Google Maps, GPS Tracking / google drivers and docs / Communication (Skype Zoom TeamViewer) / Social Media including Facebook , WhatsApp and Twitter

INTERESTS AND HOBBIES

Reading Research Articles, Badminton, volleyball, table tennis, climbing, Traveling, Hiking, Photography, Social work

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

VOLUNTEERING

Arranging Basic needs, in the Atabad Lake disaster, (2009).

Volunteer work to explore education in remote areas of Pakistan. (2011-2015).

Social Media work to promote higher education in Pakistan. (2015-2017).

Volunteer work in UCAS young scholars summer school, (2023).

REFERENCES

REFERENCES

Professor Ye Zhilong

Institute of Urban Environment,

University of Chinese Academy of Sciences.

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Reference

Dr. Olusegun K. Abass

Environmental Engineering Dept.

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