

# RIZWAN ALI

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## RESEARCH INTERESTS

Ecological restoration, phytoremediation, bioremediation, emerging pollutants, aquatic and terrestrial plant-based remediation, environmental management, and sustainable soil & water solutions.

## EDUCATION

### Masters of Environmental Science

*Nankai University, Tianjin, China* | September 2023 – June 2026

**Thesis title:** "*Ecological Identification of Pollution in Water Bodies under Combined Stress of New Pollutants and Eutrophication*" supervised by **Dr. Liu Jianv**. The study focused on identifying the synergistic effects of emerging pollutants and eutrophication on water bodies, utilizing advanced analytical techniques and field studies.

**CGPA:** 3.71/4.0

**Research area:** Aquatic plants, ornamental plants, phytoremediation, bioremediation & emerging pollutants

### Bachelors of Environmental Science

*Federal Urdu University of Arts Science & Technology, Karachi, Pakistan* | January 2018 – January 2022

**CGPA:** 3.36/4.0

## RESEARCH & WORK EXPERIENCE

### Graduate Research Assistant

*The key laboratory of pollution Processes and Environmental Criteria, Nankai University*

September 2023 – June 2026

- Investigating terrestrial & aquatic plant-based phytoremediation mechanisms for the uptake, translocation, and detoxification of emerging pollutants in contaminated soil and water systems.

### Project Officer - Freshwater Programme

*WWF- Karachi* | February 2023 – May 2023

- Led the installation and monitoring of sustainable water solutions (e.g., *Floating Treatment Wetlands*), prepared reports, and tracked targets to ensure project success and compliance.

## PUBLICATIONS

1. Research progress of using ornamental plants to cope approach environmental pollutants, a breakthrough of bioremediation technology

**Authors:** Ali R., Gao M., Liu J., Gao J. and Li Y.

Journal Name: Journal of Environmental Management (Under Review)

2. High atmospheric CO<sub>2</sub> rather than microplastic directly affects ecological response of submerged plant systems in eutrophic water

**Authors:** Gao M., Liu J., Li Y., Guo J. and Ali R.

Journal Name: Environmental Pollution (Under Review)

## LANGUAGE SKILLS

Mother tongue(s): Urdu & Balti

Other languages: English (Fluent), Chinese (Basic)

## AWARDS & HONORS

- **Chinese Government Scholarship – CSC** (For Master's degree)

Awarded the prestigious CSC scholarship, a highly competitive grant offered by the Chinese Ministry of Education.

- **Al-Kauser Merit Scholarship** (For Bachelor's degree)

Awarded the Al-Kauser Merit Scholarship, granted to students with outstanding academic performance.

## HOBBIES AND INTERESTS

- Nature & outdoor exploration & photography
- Volunteering for environmental & social causes
- Language & cultural exploration
- Cooking Pakistani cuisine
- Reading books especially related to financial literature

## VOLUNTEERING

- **The Photography and Drone Association Nankai University** [2025 – Current] *Tianjin, China*

Hands-on drone technology and nature photography workshops to promote STEM education among high school students.

- **Pakistan Sustainable Development Forum** [2018 – 2022] *Karachi*

Led environmental campaigns & organized a climate walk at Federal University.

- **The Core Aid** [2018 – 2022] *Karachi*

Coordinated emergency blood donations and Ramadan iftar drives to provide critical support for underprivileged communities.

## SPORTS & CERTIFICATIONS

- Nankai University Mental Health Games 2025 - **3rd position**
- Nankai University Spring Games 2025 - **2nd position**
- Nankai University Spring Games 2024 - **3rd position**
- Best Organization Award 2024 - 'Fun Sports, Heart for the Future' at Nankai University

## REFERENCES

**Dr. Liu Jianv**

**Supervisor**

Associate Professor,  
College of Environmental Science & Engineering,  
Nankai University  
Email: jianv2008@nankai.edu.cn

**Dr. Liu Weitao**

Professor,  
College of Environmental Science & Engineering,  
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