

Curriculum Vitae

Personal Data:

Name: Dr. Adeela Altaf
Nationality: Pakistani
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Date of Birth: 20th March 1989
Professional Address: Department of Environmental
Sciences, Bahauddin.Z.University



Professional Experience:

- **Assistant Professor** in Environmental Sciences, Department of Environmental Science, Bahauddin Zakariya University, Multan
From: 17th July 2023 – To: Till date
- **Lecturer** in environmental Sciences, Department of Environmental Science, Bahauddin Zakariya University
From: 20th September- 17th July 2023
- **Lecturer** in Fatimah Jinnah Postgraduate college for women, Multan
From: May 2013 to 18th September 2013
- **Lecturer** in Botany, Post-graduate College for Women, Khanewal
From: 24th May 2012 – To: May 2013

Teaching and Research Experience

13 years of Teaching and Research experience at the Postgraduate level.

Education:

2014-2021 **Ph. D.** in Botany from Bahauddin Zakariya University, Multan, Pakistan: Ecology of Alpine-Tree-line Ecotone in Western Himalayas, Pakistan”

Specialization: Environmental Ecophysiology

2010-2012 **M. Phil.** in Botany from Bahauddin Zakariya University, Multan, Pakistan: Multivariate Analysis of plant communities of Alpine Meadows of Kaghan Valley, Pakistan

Specialization: Plant Community Ecology/ Biodiversity

2005-2009 **BS** in Botany from Bahauddin Zakariya University, Multan, Pakistan. Multivariate Analysis of Alpine vegetation, Kaghan Valley Pakistan

Specialization: Ecology and Biodiversity

2003-2005 **F. Sc. (Pre-Medical)** from Multan Board, Pakistan.

Specialization: Pre-Medical

2001-2003 Matriculation (**Science Group**) from Multan Board, Pakistan.

Specialization: Science Group

Certification:

- **Merit Certificate (Gold Medal)** for BS Botany
Awarding Date: 26th April 2010
Institute: Bahauddin Zakariya University, Multan
- **Merit Certificate (Gold Medal)** for M.Phil. Botany
Awarding Date: 1st March 2013
Institute: Bahauddin Zakariya University, Multan

Research Projects:

- **Principal Investigator:**
Studies on the impact of compost on growth and physiology of Solanum tuberosum under cadmium-stressed soil
Funding: PKR 200,000 (BZU Research Funding)

Administrative Experience/Responsibilities:

- Director, Student Affairs
- Member, Environmental Club, Bahauddin Zakariya University
- Affiliated with the Environmental Protection Agency, Pakistan

Courses Taught:

- Biodiversity and conservation/ Plant Ecology/ Natural Resource Management/ Health and Environment/ Applied Ecology/ Microbiology/ Strategic Environmental Assessment

Research Supervised

Degree	No. of Students	Degree awarded /submitted	In progress
M.Phil.	29	14	15

M.Phil. Thesis Supervised:

S. No.	Student Name	Title	Progress	Year
1	Farzana Aslam	Influence of sewage water on plant community structure along some channels of Multan canal	complete	2017
2	Azka Ijaz	Assessment of growth performance of <i>Abelmoscus esculentus</i> in the presence of sewage sludge and leaf manure	complete	2022
3	Ayesha Asghar	Assessment of growth performance of <i>Abelmoscus esculentus</i> in the presence of sewage sludge and animal manure	complete	2022
4	Rabail Raza	Degradation of hospital wastewater by advanced oxidation process to reduce water pollution	completed	2023
5	Kainat Rizwan	Effect of industrial waste water on net assimilation rate and biomass allocation pattern of <i>Hellianthus annuus</i>	completed	2023
6	Abdur Rehman	Biomass allocation of <i>Gossypium hirsutum</i> in response to water stress	completed	2023

7	Faisal Mushtaq	Comparative Effect of bio fungicide and synthetic Fungicide for the management of rust on wheat	completed	2023
8	Khansa Majid	Ethnomedicinal importance of alpine vegetation spotlighting the areas of Pakistan (Noori top and Babusar top).	completed	2024
9	Areeba Muskan	Ethnobotanical studies of hot dessert environment, Pakistan.	completed	2024
10	Rabiya Umer	Components of growth and net assimilation rate of <i>Helianthus annus</i> in response to sugar mill effluent.	completed	2024
11	Warda Batool	Physiochemical Analysis of Sugar Mill Effluents and their impact on the surrounding area.	completed	2024
12	Mohammad Hafeez	Assessing the impact of Automobile pollution on Urban roadside trees.	completed	2024
13	Mohammad Ahmad Zubair	Carbon partitioning of <i>Helianthus annus</i> in response to cement dust.	completed	2024
14	Wali Khan	Assessment of Nickel chloride Effects on <i>Vigna Unguiculata</i> Growth and Physiology.	completed	2024

Research Publications:

1. Ahmad, N., Hashim, M., Gulshan, A.B., Bushra, E., Bibi, A., Qadir, S., **Altaf, A.**, Ahmed, I., and Dasti, A.A. (2021) Gradient analysis and classification pattern in Himalayan moist deodar forest. *Pakistan International Journal of Biosciences*, 18(2) :114-129
2. Ahmed, I., **Altaf, A.**, Hashim, M.*, Gulshan, A. B., Hussain, F., Bushra, E., Munir, M. A., Ahmed, N., Shafiq, K., Bibi, A., & Dasti, A. A. (2021). Species Richness and Community Composition along Glaciated Alpine Lake, Pakistan. *GU Journal of Phytosciences*, 1(1), 24– 4
3. **Altaf, A.**, Malik, S.A. and Wahid, A. (2020) Continuous or discrete an altitudinal transect of vegetation and soil on a de-glaciated valley, Western Himalaya, Pakistan. *International Journal of Biosciences*, 16(4): 251-276
4. Bibi, A., Bushra, E., Hashim, M., **Altaf, A.**, and Qadir, S. (2020) Classification and ordination of upland vegetation forests at Mukeshpuri Hills, Pakistan. *International Journal of Biosciences*, 17(3):206-229
5. Bushra, E., Hashim, M., Gulshan, A.B., Hussain, F., **Altaf, A.**, & Dasti, A.A. (2021). Medicinal importance of few plants from moist temperate forest of West Himalaya, Pakistan. *GU Journal of Phytosciences*, 1(1), 16-23.

6. Karam, S., Yasin, G., Huq, I., **Altaf, A.**, and Kanwal, A. (2021) Ameliorating potential of Morinaga oleifera leaf extract for drought stressed *Foeniculum vulgare* plants. Bioscience research, ameliorating potential of Morinaga oleifera leaf extract for drought stressed *Foeniculum vulgare* plants. *Bioscience Research*, 18 (3): 2081-2089.
7. Khalid, Z., Yasin, G., **Altaf, A.**, Kanwal, A., and Sohail, A. (2021) Phytopharmacological Assessment of some Medicinal Plants of Thal Desert of Pakistan. *Journal of Pharmaceutical Research International*, 33(31A):217-226
8. Khan, M., Yasin, G., Haq, I., **Altaf, A.**, and Munir, M. (2021) Exogenous Ferrous Sulphate Mediated Chromium stress alleviation in Canola indices of non-enzymatic antioxidants. *Bioscience research*, 18(3): 2054-2066
9. Khan, M., Yasin, G., Huq, I., **Altaf, A.**, Muneer, M., and Nawaz, A. (2021) Exogenous Ferrous Sulphate Mediated Chromium stress alleviation in Canola indices of non-enzymatic antioxidants. *Innovative scientific information & services network* 18(3): 2054-2066
10. Munir, M., Yasin, G., Huq, I., Khan, M., and **altaf, A.** (2021) Does Ascorbic acid mitigate the salinity Sufferance Assay for absolute growth indices of Canola. *Bioscience research*, 18(3): 2072-2080
11. Noor, S., Hashim, M., **Altaf, A.**, and Bushra, E. (2021) A numerical analysis of understory plant associations in a *Pinus Wallichiana* Forest. *Pakistan Journal of Biodiversity and Environmental sciences*, 18(5): 19-34.
12. Qadir, S., **Altaf, A.**, Hashim, M., Bushra, E., and BiBi, A. (2020) Distribution of roadside plant communities along the altitudinal gradient in pine forest, Pakistan. *International Journal of Bioscience*, 17(5):96-115
13. Rehman, H., Khan, I., Ahmad, I., Awais, S., Rehman, A., **Altaf, A.**, Raza, N., Maqbool, S., and Najeed, U. (2015) Ichthyological survey of Darwazani Dam Tehsil Lachi District Kohat. *World Applied Science Journal*, 33(11):1764-1766
14. Rubab, L., Hashim, M., Javaid, S., Gulshan, A.B., Bushra, E., **Altaf, A.**, Naeem, R., Jamil, M., & Ahmad, A. (2024). Small scale altitudinal variation in gap vegetation in temperate forest: A case study in Mukhshpuri, Ayubia National Park, Pakistan. *GU Journal of Phytosciences*, 1(1), 40– 54
15. Saima, S., **Altaf, A.**, Hashim, M., Shahnaz, F., and Wu, G. (2018) Vegetation pattern and composition of mixed coniferous forest along an altitudinal gradient in the western Himalayas of Pakistan. *Australian journal of forest science*, 135: 159-180
16. Saima, S., Yasin, G., Haq, I., Saleem, S., **Altaf, A.**, Ahmad, A., and Shehzadi, S. (2021) Growth and Macronutrients status of Mung Bean grown under lead stress and exposed to foliar spray of indole acetic acid. *Legume Research-An International journal*, 44(10): 1152-1158
17. Saleem, S., Yasin, G., **Altaf, A.**, Hussain, K., and Nawaz, K. (2022) Indole Acetic Acid mediated amelioration of lead stress-Physiological indices of Mung Bean. *Legume Research-An International journal*, 44(10): 1-5

18. Shafiq, K., Hashim, M., Gulshan, A. B., Bushra, E., Ahmad, I., **Altaf, A.**, Ahmad, N., Bibi, A., Qadir, S., & Dast, A. A. (2021). A contribution to the study of resource and community pattern in a Chir Pine Ecotonal Forest, Pakistan. *GU Journal of Phytosciences*, 1(1), 01-15
19. Shaheen, M.R., Ayyub, C.M., Sarwar, N., **Altaf, A.**, Nawaz, M., and Khan, F.A. (2017) Salicylic acid up surges the heat tolerance of tomato by improving plant water relations and antioxidant activity. *International Journal of Biosciences*, 10(6):120-130
20. Shahzadi, S., Yasin, G., Haq, I. U., Saleem, S., **Altaf, A.**, Aqsa, A., & Sumbal, S. (2022). Growth and macronutrients status of mung bean [*Vigna radiata* (L.) wilczek] grown under lead (PB) stress and exposed to foliar spray of indole acetic acid (IAA). *Legume Research - An International Journal*, 45(9), 1137-1142. <https://doi.org/10.18805/LRF-670>
21. Shahzaman, S., Haq, M., Bibi, S., **Altaf, A.**, and Ahmed, R. (2016) Bio-efficacy of Pseudomonas Fluorescence isolated from Chickpea fields as plant growth promoting rhizobacteria. *International Journal of Biosciences*, 9(4): 138-146
22. Ummara, U., Bokhari, T.Z., **Altaf, A.**, Younis, U. and Dasti, A. A., (2013) Pharmacological study of Shogran Valley Flora, Pakistan. *International Journal of Scientific & Engineering Research*, 4(9):1419-1427
23. Yasin, G., **Altaf, A.**, & Haq, I. U. (2023). Efficacy of IAA for affecting nitrate reductase activity and yield attributes of mash (*Vigna mungo* (L.) Hepper). *Emirates Journal of Food and Agriculture*, 35(7), 598-603. <https://doi.org/10.9755/ejfa.2023.v35.i7.3108>
24. Yasin, G., **Altaf, A.**, Haq, I. U., Nazeer, S., & Sabir, M. (2023). Nutrients ions indices of some medicinal flora of Cholistan Desert of Pakistan. *Makara Journal of Science*, 27(2), 81–88. <https://doi.org/10.7454/mss.v27i2.1444>
25. Yasin, G., **Altaf, A.**, Saima, S., Sameen, S., and Saima, S. (2022) Time course variations in ameliorative potentials of spermidine and kinetin for chromium toxicity growth analysis indices of four *vigna mungo* genotypes. *Emirates Journal of Food and Agriculture*,34(3): 2836-2845
26. Yasin, G., Anwar, I., Ahmed, A., **Altaf, A.**, Shehzadi, S., and Kanwal, A. (2021) Floristic indices and ion content of some Medicinal plants along sand dunes and Cholistan Desert Pakistan. *Sindh University research journal*, 53(4): 12-20.
27. Yasin, G., Anwer, I., **Altaf, A.**, & Sohail, S. (2024). Floristic indices, nutrients accumulation and nutrients uptake ratios of some medicinal plants along the altitudinal gradients of sand dunes in Thal Desert of Pakistan. *RADS Journal of Biological Research & Applied Sciences*, 15(1).
28. Yasin, G., Sabir, M., Anwar, I., **Altaf, A.**, Batool, A., and Hussain, K. (2021) Potential of Ethanol Extracted Secondary metabolites of plants from thal Desert for in vitro changes in haematological indices. *Journal of Pharmaceutical Research International*, 33(31A):42-51