

Curriculum Vitae

Name: **Dr. Madeeha Arshad**
(*H.E.C Approved Supervisor*)

Designation: Assistant Professor of Zoology
Department: Zoology
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Status: On Job
Postal Address: Department of Zoology, University of Education (Lahore) Faisalabad Campus, College Road, Samanabad, Faisalabad Pakistan



Objective:

To prove my congenial efforts for the improvement of the University and rapid growth of professional career with full concentration and sincerity

Academic Qualifications:

- **Ph.D.** (Zoology) University of the Punjab, Lahore 54000, Pakistan
- **MPhil./MS** (Zoology) **1st Division**, University of the Punjab, Lahore 54000, Pakistan
- **M.Sc. (Zoology) 1st Division**, University of the Punjab, Lahore 54000, Pakistan

Professional Experience:

- **Assistant Professor of Zoology:** Department of Zoology, Division of Science and Technology, University of Education, Lahore, Pakistan (September 29, 2020..... to date...)
- **Assistant Professor of Zoology:** Department of Zoology, Institute of Molecular Biology and Biotechnology, University of Lahore, (Sargodha Campus), Pakistan (November 28, 2018 to September 28, 2020)

Research Project Submitted:

Nano based drug delivery system to targeted cancer cells in RTTG proposal Calls 2023 Submission no: CP-1-2023-1204-WK6J

Administrative duties:

- Coordinator: I have served as Coordinator Department of Zoology, University of Education, Faisalabad Campus from 21 January, 2021 to 15 June 2022

Publications:

Sr no.	Title	Impact factor	Category
1.	Ujan, J. A., Arshad, M., Latif, F., Rahim, A., Naz, S., Mohany, M., & Al-Rejaie, S. S. (2025). Influence of Feeding Zones and Seasonal Dynamics on Metal Bioaccumulation and Human Health Risk Assessment in Riverine Fish. <i>Journal of Trace Elements in Medicine and Biology</i> , 127814.	3.3	W
2.	Ayub, H., Ijaz, U., Arshad, M., Latif, F., Habib, S. S., & Al-Eman, A. (2025). Influence of seasonal and spatial variations in physico-chemical parameters and plankton and macrophyte abundance on the diet composition of Labeo gonius in Chashma Lake, Indus River. <i>Environmental Monitoring and Assessment</i> , 197(9), 1048.	3.0	W

3.	Ujan, J. A., Arshad, M., Majeed, S., Habib, S. S., Ullah, M., Zahid, M., ... & Fazio, F. (2025). Seasonal Analysis of Heavy Metal Contamination in the Indus River: Impacts on Aquatic Life and Human Health Risks. <i>Environmental Forensics</i> , 26(6), 755-768.	1.2	W
4.	Naz, S., Habib, S. S., Arshad, M., Majeed, S., Acar, Ü., Kesbiç, O. S., ... & Fazio, F. (2025). Human health risk of heavy metal biomagnification: Trophic transfer patterns in aquatic ecosystems. <i>Journal of Trace Elements in Medicine and Biology</i> , 127704.	3.3	W
5.	Naz, S., Habib, S. S., Arshad, M., Majeed, S., & Mohany, M. (2025). Seasonal trends in heavy metal pollution and water quality in the Chashma (Indus River, Pakistan): a study on environmental health risks. <i>Water, Air, & Soil Pollution</i> , 236(10), 670.	3.0	W
6.	Habib, S. S., Arshad, M., Latif, F., Ullah, M. A., Majeed, S., Mohany, M., & Fazio, F. (2025). Bioaccumulation and Biochemical Response of Cadmium in Labeo Rohita across Varying Sizes. <i>Carpathian Journal of Earth and Environmental Sciences</i> , 20(2), 363-372.	0.9	W
7.	Naz, S., Arshad, M., Majeed, S., Maqaddas, S., Habib, S. S., Kesbiç, O. S., ... & Fazio, F. (2025). Assessing Heavy Metal Contamination in Commonly Used Fertilizers for Polyculture Fish Ponds and Its Implications for Human Health: A Comprehensive Investigation: S. Naz et al. <i>Biological Trace Element Research</i> , 203(6), 3318-3334.	3.6	W
8.	Habib, S. S., Arshad, M., Majeed, S., Ullah, M., Ujan, J. A., Naz, S., & Mohany, M. (2025). Sludge removal frequency influences heavy metal accumulation, water quality, and growth in Nile tilapia (<i>Oreochromis niloticus</i>) biofloc systems. <i>Water Environment Research</i> , 97(6), e70081.	2.5	W
9.	Ullah, M., Arshad, M., Wei, C. R., Sanghvi, G., Ballal, S., Kalia, R., ... & Zhengxin, L. (2025). Rational designing of ZIF-67-derived Co ₃ O ₄ nanocomposite with hierarchical porous structure and extensive peroxidase mimetic activities for highly sensitive colorimetric detection of nitrite in drinking water. <i>Microchimica Acta</i> , 192(2), 61.	5.4	W
10.	Rind, K. H., Arshad, M., Majeed, S., Habib, S. S., Al-Rejaie, S. S., Mohany, M., ... & Fazio, F. (2025). Impact of heavy metals on health and quality of <i>Oreochromis niloticus</i> cultured in biofloc and earthen pond systems. <i>Journal of Environmental Science and Health, Part B</i> , 60(3), 129-137.	2.2	W
11.	Ahmad, F. B., Ara, C., Ali, S., Arshad, M., Faheem, M., Ullah, R., & Asmatullah. (2025). Turmeric counteracts manganese-associated deteriorations in liver and kidney tissues: histomorphometric and biochemical insights. <i>Journal of Molecular Histology</i> , 56(1), 26.	2.9	W
12.	Naz, S., Arshad, M., Majeed, S., Maqaddas, S., Habib, S. S., Kesbiç, O. S., ... & Fazio, F. (2025). Assessing Heavy Metal Contamination in Commonly Used Fertilizers for Polyculture Fish Ponds and Its Implications for Human Health: A Comprehensive Investigation: S. Naz et al. <i>Biological Trace Element Research</i> , 203(6), 3318-3334.	3.7	W
13.	Bangash, S. A., Arshad, M., Yaqoob, R., & Sharma, R. D. (2024). Prevalence And Molecular Profiling Of Antibiotics Resistance Genes In Bacterial Isolates.	0.96	W
14.	Ara, C., Andleeb, S., Ali, S., Majeed, B., Iqbal, A., Arshad, M., ... & Muzamil, A. (2023). Protective potential of fresh orange juice against zinc oxide nanoparticles-induced trans-placental and trans-generational toxicity in mice. <i>Food Science & Nutrition</i> , 11(9), 5114-5128.	3.55	W
15.	ANALYSIS OF TOXIC IMPACTS OF FIPRONIL ON GROWTH, HAEMATOLOGY AND OXIDATIVE STRESS IN CHICKEN	1.8	X

16.	Ara, C., Arshad, M., Ali, S., Shakir, H. A., Summer, M., Khan, M., ... & Arshad, M. (2023). Aspartame, a Synthetic Dipeptide Mediated Biochemical and Histopathological Alterations in Hepato-nephric Tissues of Mice and Pharmaceutical Intervention by Sesame Oil. <i>International Journal of Peptide Research and Therapeutics</i> , 29(6), 96.	2.0	X
17.	Khalid, H., Kashif Zahoor, M., Riaz, D., Arshad, M., Yaqoob, R., & Ranian, K. (2022). Sewage sludge-induced effect on growth, enzyme inhibition, and genotoxicity can be ameliorated using wheat straw and biochar in pheretima posthuma earthworms. <i>Frontiers in Environmental Science</i> , 10, 888394.	3.3	W
18.	Ara, C., Asmatullah, Hanif, S., Andleeb, S., Zahid, B., & Arshad, M. (2021). Red onion extract attenuates aluminum induced toxicity in Swiss albino mice.	0.68	X
19.	Ali, K., Iqbal, A., Saleem, M., Riaz, A., Abbas, S., Arshad, M., ... & Sughra, F. (2021). Sodium arsenite induced genotoxicity, morphometric and morphological changes in mice embryo and protective role of <i>Moringa oleifera</i> extracts. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 34.	0.86	X
20.	Andleeb, S., Fahid, A. U. M., Dilawari, U. F., Arshad, M., & Ara, C. (2018). Attenuation of sodium fluoride induced nephrotoxicity by fresh orange juice in mice. <i>JAPS: Journal of Animal & Plant Sciences</i> , 28(6).	0.60	W
21.	Arshad, M., Ara, C., Andleeb, S., & Ahmad, N. (2018). Teratogenesis Induced by Trimethoprim Sulfamethoxazole in Mice. <i>Pakistan Journal of Zoology</i> , 50(5).	0.68	W
22.	Asmatullah, A., Chaman Ara, C. A., Shagufta Andleeb, S. A., Maha Tahir, M. T., Beenish Zahid, B. Z., & Madeeha Arshad, M. A. (2018). Therapeutic effect of guava fruit extract on cadmium induced toxicity in developing <i>Mus musculus</i> .	0.68	W
23.	Arshad, M., Ahmad, N., Khalid, M., Tahir, M., Naveed, K., & Iqbal, A. (2017). Exposure of pregnant mice to hexavalent chromium causes fetal defects. <i>Pakistan Journal of Zoology</i> , 49(4).	0.68	W
24.	Arshad, M., & Asmatullah, C. A. (2017). Embryotoxic effects of sodium arsenite in <i>Mus musculus</i> . <i>Punjab University Journal of Zoology</i> , 32(2), 189-195.	-	Y
Total IF		50.49	19 W 4 X 1Y

Reviewer of Journals:

1. Journal of Cell Biology
2. Journal of Medical Virology
3. Phytotherapy research
4. Molecular Biology Research
5. Toxicology Review

Courses Taught:

1. Developmental Biology
2. General Microbiology
3. Economic Zoology
4. Advances in Environmental Toxicology
5. Clinical Reproductive Endocrinology
6. Zoogeography and Paleontology

7. Wild Life
8. Environmental Toxicology
9. Biological Techniques
10. Clinical Teratology
11. Animal Diversity-I

Educational Honors:

- Fully funded HEC Indigenous Scholarship for Ph.D.

Trainings/ Workshops Attended/ Organized

- Organized a Two Day Hands-On Training on Animal Taxidermy at University of Education (Lahore) Faisalabad Campus (31st January, 2023- 1st February, 2023)

Seminar organized:

- 1.
2. Wildlife conservation awareness seminar/ Walk
3. Reversing Cancer by Targeting Glucose Metabolism on February 23, 2023
4. Fisheries Awareness Talk and Walk on “World Fisheries Day 2022”
5. Promotion on Aquaculture in Pakistan on July 20, 2022
6. Lucrative Future of Biofuels in Pakistan on July 19, 2022
7. Molecular Dynamics of Bone Development on June 22, 2022
8. on February, 24, 2022
9. Learning Apiculture to Live With Covid 19: Strategies Towards Management of Daily Activities on June 02, 2021
10. Management Strategies and Control of Globally Expanded Hepatitis Disease on July 31, 2021
11. Current Trends in Controlling Pests by Biopesticides on August 31, 2021

Oral Presentations:

1. Protective Potential of Pomegranate Juice Extract in Nickel Intoxicated Mice in ***International Brain and Biomedicine Conference (IBBC 2023)*** held on May 18-19, 2023
2. Study of Hepatotoxicity and Nephrotoxicity induced by Sodium Arsenite Nanoparticles in ***Mus musculus*** in 5th ***International Conference on Applied Zoology (ICAZ 2022)*** held on October 17-18, 2022
3. Amelioration of Nephrotoxicity and Spleenotoxicity Induced by Nickel with ***Punica granatum*** Extract in male ***Mus musculus*** in 4th ***International Conference on Applied Zoology (ICAZ 2021)*** held on November 24-25, 2021
4. Cardiovascular and Hepatotoxicity Induced by Nickel and Therapeutic Potential of ***Punica granatum*** in male Swiss Albino Mice in 3rd ***International Conference on Applied Zoology (ICAZ 2022)*** held on December 7-8, 2020
5. Developmental defects produced by *in utero* exposure of sepra D.S in mice. Abstract published in 33rd international zoological conference Islamabad, Pakistan.
6. Developmental defects produced by prenatal exposure of dicloran in mice. Abstract published in 34th international zoological conference Multan, Pakistan.
7. Fetoprotective potential of garlic extract on sodium arsenite induced toxicity in ***Mus musculus*** in IBPHR Conference held on 6-7 December 2017 at G.C.U Lahore.
8. Protective potential of ***Allium sativum*** extract on sodium arsenite induced teratogenicity in ***Mus musculus*** in 39th Pakistan congress of Zoology.
9. Histopathological lesions caused by aspartame in vital organs of mice and attenuation by sesame oil in 39th

Pakistan congress of Zoology.

Conveners/Member of University/ Campus Level Committees:

1. Member Board of Studies Department of Zoology from 22-01-2021-15-06-2022
2. Constitution of Admission Committee for Admissions
3. Committee of Approval of Thesis Titles in Department of Zoology
4. Member Synopsis Evaluation Committee of MS
5. Convener/Member of Visiting Faculty Hiring Committee Since Fall 2020
6. Inquiry Officer of a Driver
7. Nominated for Annual Sports
8. Committee for Annual Sports Prize Distribution Ceremony
9. Member Tender Committee
10. Member Inspection Committee
11. Member Floriculture Committee

Computer Skills:

- MS Word
- MS Excel
- MS Power point
- SPSS
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Thesis Supervised:

BS Students Supervised

Sr No.	Student's Name	Registration No.	Research Topic
1.	Muhammad Ramzan	18-UE-03067	Study of Hepatotoxicity and Nephrotoxicity Induced by Sodium Arsenite Nanoparticles in <i>Mus musculus</i>
2.	Abuzar Mehdi Khan	18-UE-03150	Determination of Acute Toxicity of Sodium Arsenite Nanoparticles and its Effects on Antioxidant Enzymes of <i>Mus musculus</i>
3.	Shazia Yousaf	18-UE-03482	Study of Reproductive and Spleentoxicity Induced by Sodium Arsenite Nanoparticles in <i>Mus musculus</i>
4.	Zeenat Murtaza	18-UE-03544	Study of Heart and Lung Toxicity Induced by Sodium Arsenite Nanoparticles in <i>Mus musculus</i>

MPhil Students Supervised

Sr No.	Student's Name	Registration No.	Research Topic
1.	Munazza Noor	PZOL07173049	Histological variations in high androgen induced PCOS and compensatory effects of Ajwain (<i>Trachyspermum ammi</i>) and Dhak (<i>Butea monosperma</i>) in swiss albino mice
2.	Kinza Shakeel	PZOL07183001	Cardiovascular And Hepatotoxicity Induced By Nickel And Therapeutic Potential Of <i>Punica Granatum</i> In Male Swiss Albino Mice
3.	Mohsin Raza	PZOL07183013	Therapeutic Potential Of <i>Nigella sativa</i> Against Nickel Induced Skeletal And Morphometric Alterations In Developing <i>Mus musculus</i>
4.	Farukh Tahira Malik	PZOL07183033	Amelioration Of Nephrotoxicity And Spleenotoxicity Induced By Nickel With <i>Punica granatum</i> Extract In Male <i>Mus musculus</i>
5.	Iftikhar Khan	PZOL07183037	Estimation Of Nickel In Various Organs Of The Male <i>Mus musculus</i> Using Inductive Coupled Plasma (ICP)
6.	Sobia Zulfiqar	PZOL07183043	Protective Potential Of Pomegranate Extract In Nickel Intoxicated Mice
7.	Mubarrah Kiran	PZOL07183047	Morphological And Histological Deformities Produced By In Vitro Exposure Of Nickel In <i>Mus musculus</i> And Protective Potential Of <i>Nigella sativa</i>
8.	Urooj Fatima	21-UE-05316	Effect of Iron Oxide Nanoparticles on Cardiac and pulmonary Tissues in <i>Rattus noverigus</i>
9.	Sofia Qasim	21-UE-05208	Determine the effects of Iron Oxide Nanoparticles on Testes and Kidneys of <i>Rattus noverigus</i>
10.	Maryam Arshad	21-UE-04976	Synthesis and Characterization of Iron Oxide Nanoparticles and its acute toxicity in male albino rats
11.	Maryum Nawaz	21-UE-04523	Determination of Hepato and Spleeno-toxicity induced by Iron Oxide Nanoparticles in Male Albino Rats
12.	Muhammad Ramzan	18-UE-03067	Green synthesis and characterization of iron oxide nanoparticles from spinach (<i>Spinacia oleracea</i>) and its antibacterial activity against <i>Staphylococcus aureus</i>

13.	Abuzar Mehdi Khan	18-UE-03150	Comparative estimation of anti-inflammatory activities of arsenic nanoparticles synthesized chemically and biogenically in swiss albino rats
14.	Ayesha Iram	18-UE-03446	A comparative approach to assess anti-inflammatory effects of chemically and biogenically synthesized iron oxide nanoparticles in <i>Rattus novergicus</i>
15.	Ayesha Bibi	18-UE-03214	Comparison of chemically and biogenically synthesized iron oxide and arsenic nanoparticles to evaluate morphological and histopathological alterations in liver and kidney tissues of chick embryo
16.	Iram Shaista	22-UE-05278	Evaluation of antibacterial activity of arsenic Nanoparticles produced from potato (<i>Solanum tuberosum</i>)
17.	Samia Basharat	23-UE-15682	Hepatoprotective Effects Of Fabricated NiO Nanoparticles Against Arsenic Induced Oxidative Stress
18.	Malik Waqar Sultan	23-UE-15683	Nephroprotective Effects Of NiO Nanoparticles Against Arsenic Induced Oxidative Stress
19.	Aiman Waheed	24-UE-10110	Biogenically Synthesized Iron and Selenium Nanoparticles as Protective Agents Against Microplastic-Induced Cardiotoxicity in Swiss Albino Rats
20.	Alishba	24-UE-10111	Distribution, Abundance, and Characterization of Microplastics and Associated Microbial Activity in Soils of Faisalabad, Pakistan

MPhil Students Co-Supervising

1	Tahira Kulsoom	PZOL07193030	Typhoid Causing Strains Identification, Characterization And Serological Changes Induced By <i>Salmonella</i> Strains In The Patients Of Sahiwal
2	Zakia Gulzar	PZOL07193022	Identification and characterization of <i>salmonella</i> strains and its biochemical and serological effects in typhoid patients of Islamabad and Jhang Region
3	Erum Shaukat	PZOL07193021	<i>Salmonella</i> strains identification , characterization and variation in serological parameters in the patients of Sargodha
4	Hadia Shafqat	PZOL07201016	Sodium metabisulfite induced cardiac, hepatic and pulmonary toxicities in adult male swiss albino mice and their amelioration by <i>Syzygium cumini</i>
5	Muhammad Waqar ul Hassan	PZOL07201007	Toxic effects of sodium metabisulfite on gastric, renal and testicular tissues of adult male <i>Mus musculus</i> and their amelioration by <i>Syzygium cumini</i>

MS Students Currently Supervising

Sr No.	Student's Name	Registration No.	Research Topic
1.	Ayesha	24-UE-14464	Study of Comparative Efficacy of Iron and Selenium Nanoparticles in Mitigating Spleeno and Pulmono-Toxicity Induced by PVC Microplastics in Swiss Albino Rats (<i>Rattus norvegicus</i>)
2.	Mehwish	24-UE-14463	Optimization of <i>Bacillus cereus</i> Mediated Biodegradation of Polyethylene Microplastic in Water Bodies of Faisalabad
3.	Aiman Naeem	24-UE-14485	Comparative Analysis of Anti Inflammatory Activities of Iron and Selenium Nanoparticles Against Microplastic Induced Inflammation in Swiss Albino Rats (<i>Rattus norvegicus</i>)
4.	Jibran Saleem	24-UE-14476	Optimization of <i>Pseudomonas aeruginosa</i> Mediated Biodegradation of Polystyrene Microplastics in Water Bodies of Faisalabad
5.	Ahmad Faraz	24-UE-14478	Abundance, Characterization of Polypropylene in Water Bodies of Faisalabad District and its Bioremediation Through <i>Pseudomonas aeruginosa</i>
6.	Muqaddas Javaid	24-UE-14480	Therapeutic Effects of Selenium Nanoparticles Against Polyvinyl Chloride Induced Morphological and Hepatotoxic Effects in Chick Embryos

PhD Student Currently Supervising

Sr No.	Student's Name	Registration No.	Research Topic
1.	Saba Yousaf	23-UE-10306	Synergistic Effect of Biosynthesized Selenium and Iron Nanoparticles Against Microplastic Induced Toxicity in Mammalian Model