

Curriculum Vitae

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

Designation: Assistant Professor of Zoology
Department: Zoology
Email: Madeeha.arshad@ue.edu.pk & Madeeha.arshad23@gmail.com
Phone: +92 308 4488518
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 |

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| 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 Co3O4 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 |

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| 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 arsenate induced genotoxicity, morphometric and morphological changes in mice embryo and protective role of Moringa oleifera 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 Mus musculus. | 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 arsenate in Mus musculus. <i>Punjab University Journal of Zoology</i> , 32(2), 189-195. | - | Y |
| Total IF | | 50.49 | 19 W 4 X 1 Y |

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.

Trianings/ 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 septa 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 arsenate 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 arsenate 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. | Mubarraah 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 Nanopartcles 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> |

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| 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 biogenecially 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 poduced 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

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|---|--------------------------|--------------|---|
| 1 | Tahira Kulsoom | PZOL07193030 | Typhoid Causing Strains Identification, Characterization And Serological Changes Induced By Salmonella Strains In The Patients Of Sahiwal |
| 2 | Zakia Gulzar | PZOL07193022 | Identification and characterization of salmonella strains and its biochemical and serologicaleffects in typhoid patients of Islamabad and Jhang Region |
| 3 | Erum Shaukat | PZOL07193021 | Salmonella strains identification , characterization and variation in serological parameters in the patients of Sargodha |
| 4 | Hadia Shafqat | PZOL07201016 | Sodium metabisulfiteinduced 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 Spleno 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 |