

DR. AMARA AKHTAR

Current Position: Assistant Professor
Department of Zoology, Wildlife & Fisheries
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PROFESSIONAL SUMMARY

Dedicated and research-driven academic professional with over **14 years of teaching and research experience** in Zoology, specializing in **fish nutrition, aquatic toxicology, and environmental physiology**. Currently serving as Assistant Professor at the University of Agriculture Faisalabad, Pakistan. Holds a **PhD** in Zoology with demonstrated academic excellence throughout educational and professional career. **Published 24 international research articles** in peer-reviewed journals, contributing significantly to global research in fish nutrition and environmental toxicology. Experienced in academic administration, **supervision of 200+ BS/MSc/MPhil students**, and curriculum development. Fluent in English and Urdu with strong commitment to fostering research-oriented academic environments.

EDUCATION

PhD in Zoology

University of Agriculture, Faisalabad, Pakistan

2023 | 1st Division, A Grade

Thesis: "Effect of dietary lipid levels on the feed utilization, growth performance, body composition, and serum metabolites of major carps"

MPhil in Zoology

University of Agriculture, Faisalabad, Pakistan

2015 | 1st Division, A Grade

Thesis: "Catalase Characterization in Metal Mixture (Pb+Cr) Exposed *Labeo rohita*"

MSc in Zoology

University of Agriculture, Faisalabad, Pakistan

2010 | 1st Division, A Grade

Thesis: "Arthropod study of Cropland weeds and orchid trees"

BSc in Zoology, Chemistry, Botany

University of Agriculture, Faisalabad, Pakistan

2006 | 1st Division, A Grade

PROFESSIONAL EXPERIENCE

Assistant Professor

Department of Zoology, Wildlife and Fisheries, University of Agriculture Faisalabad, Pakistan

August 2024 – Present

- Designed and taught advanced courses in fish nutrition and toxicology.
- Supervised **200+** BS/MSc/MPhil students with successful technical reports and thesis completions.
- Research published in impact factor journals.
- Led research on sustainable aquaculture practices.
- Contributed to departmental curriculum development and academic planning.

Lecturer

Department of Zoology, Wildlife and Fisheries, University of Agriculture Faisalabad, Pakistan

August 2011 – July 2024

- Delivered lectures to over 1,000 undergraduate and postgraduate students.
- Conducted research on nutrition and aquatic toxicology with real-world applications in fisheries.
- Organized departmental workshops and seminars.
- Mentored students in research methodology and thesis writing.
- Participated in academic committees and evaluation processes.

RESEARCH EXPERIENCE & KEY ACHIEVEMENTS

Research Focus: Over 7 years of specialized research experience in fish nutrition and toxicology, with particular emphasis on improving feed efficiency, developing sustainable protein alternatives, and identifying toxicological impacts of environmental pollutants on natural habitats of Pakistan.

Enhanced fish feed efficiency by up to 30% through optimized formulation in *Labeo rohita* and *Catla catla*.

Investigated heavy metal toxicity and developed herbal/probiotic-based mitigation strategies.

Identified nanoparticle and microplastic toxicity thresholds affecting fish organ health. Proposed cost-effective protein alternatives (e.g., poultry byproduct meal) to replace fishmeal.

Optimized vitamin supplementation, improving antioxidant status and liver function.

Publications cited by researchers across Asia and Europe, influencing fish nutrition practices.

SELECTED PUBLICATIONS (2021-2025)

Selected Publications

(Full list available at: [Google Scholar](#))

Lead Author (Selected)

1. **Akhtar, A., & Abdullah, S. (2021).** Growth performance of *Catla catla* fed on animal vs plant-based dietary lipids. **Annals of R.S.C.B., 26**, 1841–1857.
2. **Akhtar, A., et al. (2022).** Dietary lipids and growth of major carps. **Journal of Positive School Psychology, 6**, 485–508.
3. **Akhtar, A., et al. (2023).** Zinc oxide nanoparticles' effects on albino rat kidney histopathology. **J.P.T.C.P., 30**, 891–898.
4. **Akhtar, A., et al. (2024).** Microplastics (polyethylene glycol) impact on growth and haematology of *Labeo rohita*. **J.P.T.C.P., 31**, 1004–1010.
5. **Akhtar, A., et al. (2025).** Fish meal replacement with poultry by-product meal in Rohu (*Labeo rohita*). **Physical Education, Health & Social Sciences, 2(3)**, 44–58.

Co-Author (Selected)

6. Nazeer, N., **Akhtar, A., et al. (2021).** Effect of Neem-based feed on *Labeo rohita*. **Pure and Applied Biology, 10**, 115–123.
7. Kauser, S., **Akhtar, A., et al. (2024).** *Nigella sativa* effects against lead toxicity in *Catla catla*. **Chelonian Conservation and Biology, 19**, 1983–1993.

 For the full list of 24 peer-reviewed publications and citation metrics, visit:

 <https://scholar.google.com/citations?user=pkP4QwsAAAAJ&hl=en>

BOOK CHAPTER

Mubarik, M.Z., A. Nawaz, **A. Akhtar**, R. Malik, S. Yasin, H. Fatima, M. Khalid and Y. Jameel. 2024. Role of Probiotics in the Immunity of Humans and Animals. Complementary and Alternative Medicine: Prebiotics and Probiotics. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 328-329.

CORE COMPETENCIES & SKILLS

Research Expertise:

- Fish nutrition and feed optimization
- Aquatic toxicology and environmental physiology
- Heavy metal stress analysis
- Nanoparticle and microplastic toxicity
- Probiotic and herbal supplementation
- Bioaccumulation studies

Technical Skills:

- Statistical data analysis software
- Microsoft Office Suite (Word, Excel, PowerPoint)
- Research methodology and experimental design
- Laboratory management and safety protocols
- Scientific writing and manuscript preparation
- Data interpretation and visualization

LANGUAGE PROFICIENCY

- English: Proficient (Speaking, Reading, Writing, Listening)
- Urdu: Native

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- Presiding Officers Training, Election Commission of Pakistan – 2018
- Workshop: Academic Writing Skills, UAF – 27 Dec 2018
- Seminar: Breast Cancer Awareness, UAF – 19 Feb 2019
- Rodent Pest Control in Agro-Ecological Zones, USAID Seminar – 30 Sep 2019
- Workshop: Software for Academic Writing, UAF – 5 Sep 2019
- 6th & 7th International Conference on Applied Zoology, Presenter/Participant – 2023 & 2024
- Enhancing Learner-Centered Pedagogical Skills, UAF – 23 Feb 2024
- Symposium on Medicinal Plants & Natural Products, UAF/PHEC/USDA – 8 Mar 2024 (Speaker & Organizer)
- International Symposium on Green Energy Nanomaterials & AI, Presenter – 27 Sep 2024
- Guest Speaker, Menstruation Positivity Panel, Diet Nutrition Zone – Apr 2024
- Game Coordinator, Annual Sports Gala, UAF – 2024
- Judge & Organizer, Paras Music Society Event – 30 Apr 2025
- Workshop: Bioassays for Bioactives, Dept. of Biochemistry, UAF – 2025

ADMINISTRATIVE EXPERIENCE

- Coordinator of Zoology for postgraduate classes, UAF-Community College, PARS Campus, Faisalabad, Pakistan (September 2017 - March 2021)
- Superintendent of Iqbal Hall, PARS Campus (Current)
- Tutor, Qasim 9, Sir Syed Tutorial Group
- Tutorial Group (Current)

AWARDS & RECOGNITION

- Medal for excellence in organizing cultural shows at Iqbal Auditorium, UAF (2013).
- Developed General and Research Laboratory at UAF-Community College, PARS Campus, Faisalabad, Pakistan.
- Hostel cleanliness and maintenance competition: 1st in PARS hostels, 2nd overall.
- Consistent first division academic performance throughout educational career.

REFERENCES

Dr. Sajid Abdullah

Associate Professor
Department of Zoology, Wildlife, and Fisheries
University of Agriculture Faisalabad, Pakistan

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Phone: +92 333 6558550

Dr. Muhammad Naeem

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Qijing Normal University, Qijing, China

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Dr. Abdul Mateen

Associate Professor

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This CV is current as of 2025. For the most up-to-date information, please contact Dr. Amara Akhtar directly.