

## ***CURRICULUM VITAE***

**Sana Ullah, Ph.D.**

**Assistant Professor, Department of Zoology**

**Division of Science and Technology, University of Education Lahore, Jauharabad Campus,  
Jauharabad-41200, District Khushab, Punjab, Pakistan**

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<b>International Recognition:</b>	Top 2% Scientists – Stanford/ Elsevier Top 0.05% of 30 million Scholars (All fields of Scholarly Endeavor) – ScholarGPS® Ranked 1 <sup>st</sup> in Biological Sciences – University of Education (AD Scientific Index) GBD Senior Collaborator – IHME, University of Washington Sakura Fellow – AST Japan
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<b>Research Output:</b>	Research Papers: 90+                      Cumulative Impact Factor: 900+ Citations – 19000+ (Google Scholar), 17500+ (ResearchGate), 14500+ (Scopus), 9000+ (WOS) <i>h</i> -index – 39 (Google Scholar), 40 (ResearchGate), 35 (Scopus), and 28 (Web of Sciences)
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<b>Research Interest:</b>	Fisheries and Aquaculture Fisheries Toxicology and Ecotoxicology of Emerging Contaminants Chemical Risk Assessment using Fish as a Model Organism Limnology Public & Global Health and Safety Environmental Health and Safety
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## **Education**

- 2016-19 PhD in Biology (Zoology) from Nanjing University, People's Republic of China – Ranked 62<sup>nd</sup> globally in the Times Higher Education World University Rankings (2026), 103<sup>rd</sup> in the QS World University Rankings (2026), and 8<sup>th</sup> (2025) globally in Nature Index (Research Leaders).  
*Thesis Title:* A multi-scale study on the hostile effects of pollution on humans and fish: from behavior, physiology, biochemistry, to toxicology
- 2014-15 MPhil in Zoology (Fisheries & Aquaculture) from Quaid-i-Azam University, Pakistan – Ranked 354<sup>th</sup> globally and 1<sup>st</sup> in Pakistan in the QS World University Ranking (2026).  
*Thesis Title:* Protective role of vitamin C against Cypermethrin induced toxicity in *Labeo rohita* (Ham.): Biochemical aspects
- 2012-13 PGD in Geographic Information Systems & Remote Sensing from the University of Peshawar, Pakistan – Ranked 901-950 in QS World University Ranking (2026).  
*Thesis Title:* A GIS integrated approach for assessment of drinking water quality of District Dir Lower K.P.
- 2011-12 MSc in Zoology (Fisheries) from the University of Peshawar, Pakistan – Ranked 901-950 in QS World University Ranking (2026).  
*Thesis Title:* The ichthyofaunal diversity, relative abundance, physicochemical analysis and the estimation of biodiversity index of River Panjkora, District Dir (Lower), Khyber Pakhtunkhwa
- 2009-10 BSc from the University of Malakand, Pakistan – Ranked 601-800 in Times Higher Education (2025).
- 2007-08 Higher Secondary School Certificate, Govt. Postgraduate College, Timergara, District Lower Dir, Khyber Pakhtunkhwa (BISE Malakand)
- 2005-06 Secondary School Certificate, Wisdom House Public School, Timergara, District Lower Dir, Khyber Pakhtunkhwa (BISE Malakand)

## Academic Appointments

- Sep 2020 – Current Assistant Professor, Department of Zoology, Division of Science and Technology, University of Education (Lahore), Jauharabad Campus
- July 2020 – Sep 2020 IPFP Fellow, Department of Zoology, Shaheed Benazir Bhutto University, Sheringal, District Upper Dir, Khyber Pakhtunkhwa, Pakistan

## Selected Peer Reviewed Publications

- Ashraf, M.K., \*Ullah, S., Bilal, M., Multisanti, C.R. and Faggio, C. 2025. Multi-biomarker assessment of essential and toxic elements accumulation in *Labeo gonius* from Khushab Lake (Pakistan). Environmental Pharmacology and Toxicology. 119: 104814.
- \*Ullah, S., Ahmad, S., Ashraf, M.K., Bilal, M., Iqbal, T. and Azzam, M.M. 2025. Exposure to acute concentration of Malathion induced behavioral, hematological and biochemical toxicities in the brain of *Labeo rohita*. Life. 15(2): 158.
- Khan, K., Dawar, F.U., Shah, S.A.U.R. and Ullah, S. 2025. Morphological and biochemical abnormalities caused by malathion during early development of rohu (*Labeo rohita*). Pakistan Journal of Agricultural Sciences. 62(1): 769-776.
- Shaheen, M., Ullah, S., Bilal, M., Muneeb, A., Yurdakok-Dikmen, B. and Faggio, C. 2024. Determination of Heavy Metals and Hemato-Biochemical Profiling of *Bagre marinus* and *Bagarius bagarius* in Jhelum River. Water. 16: 2994.
- \*Ullah, S., Zuberi, A., Ullah, I. and Azzam, M.M. 2024. Ameliorative role of Vitamin C against Cypermethrin induced oxidative stress and DNA damage in *Labeo rohita* (Hamilton, 1822) using single cell gel electrophoresis. Toxics. 12: 664.
- Ejaz, A., Ullah, S., Ijaz, S., Bilal, M., Banaee, M., Mosotto, C. and Faggio, C. 2024. Bioaccumulation and Health Risk Assessment of Heavy Metals in *Labeo rohita* and *Mystus seenghala* from Jhelum River, Punjab, Pakistan. Water. 16(20), 2994.
- Shah, S.A., Rauf, M., Ali, S., Ullah, S., Ullah, K., Anjum, S.I., Azizullah, A. and Dawar, F.U. 2023. Variations in the behaviour, survival, haematology, and biochemistry of *Ctenopharyngodon idella* (Grass Carp) after exposure to commercial grade atrazine. Bulletin of Environmental Contamination and Toxicology. 111:14.
- Hassan, S., Ahmad, B., Khan, M.W., Shah, Z.A., Ullah, A., Ullah, S., Khan, D., Rizwan, M., Ahmad, A., Ali, Q., Kaushik, P. and Yilmaz, S. 2023. Cytotoxic activity of phytoconstituents isolated from *Monothea buxifolia* against hepatocellular carcinoma cell line hepg2: *in vitro* and molecular docking studies. ACS Omega. 8(37): 33572-33579.
- \*Ullah, S., Ahmad, S., Altaf, Y., Dawar, F.U., Anjum, S.I., Baig, M.M.F.A., Fahad, S., Al-Misned, F., Atique, U., Guo, X. and Nabi, G. 2022. Bifenthrin induced toxicity in *Ctenopharyngodon idella* at an acute concentration: A multi-biomarkers based study. Journal of King Saud University-Science. 34(2): 101752.
- Zhang, Z., Li, Y., Ullah, S., Chen, L., Ning, S., Lu, L., Lin, W. and Li, Z. 2022. Home Range and Activity Patterns of Free-Ranging Cats: A Case Study from a Chinese University Campus. Animals. 12(9): 1141.
- Nabi, S., Ahmad, S., Ullah, S., Zada, S., Sarfraz, M., Guo, X., Ismail, M. and Wanghe, K. 2022. The adverse health effects of increasing microplastic pollution on aquatic mammals. Journal of King Saud University-Science. 34(4): 102006.
- Ullah, S., Li, Z., Hassan, S., Ahmad, S., Guo, X., Wanghe, K. and Nabi, G. 2021. Heavy metals bioaccumulation and subsequent multiple biomarkers based appraisal of toxicity in the critically endangered *Tor putitora*. Ecotoxicology and Environmental Safety. 228:113032.
- \*Ullah, S., Ullah, N., Rajper, S.A., Ahmad, I. and Li, Z. 2021. Air pollution and associated self-reported effects on the exposed students at Malakand division, Pakistan. Environmental Monitoring and Assessment. 163: 708.
- Yu, C., Chen, L., Ning, S., Ullah, S. and Li, Z. 2021. Do bovids evolve hindquarter markings for anti-predation?. Current Zoology. 68(2): 143-148.
- Wang, L., Luo, Y., Maierdiyali, A., Chang, H., Ullah, S. and Li, Z. 2021. Azure-winged magpies passed the tasks on the Uzgiris-Hill scale of object permanence. Journal of Ornithology. 162: 605-613.
- Rajper, S.A., Nazir, A., \*Ullah, S. and Li, Z. 2020. Perceived health risks of exposure to indoor air pollution from cooking fuels in Sindh, Pakistan. Polish Journal of Environmental Studies. 29(4): 2833-2844.
- \*Ullah, S., Hasan, Z., Li, Z., Zuberi, A., Zorriezhahra, M.J. and Nabi, G. 2020. Diversity and community composition of ichthyofauna at Konhay stream, district Dir Lower, Pakistan. Iranian Journal of Fisheries Sciences. 19(5): 2322-2339.

- Wang, L., Lou, Y., Wang, H., Zou, Y., Yao, H., **Ullah, S.** and Li, Z. 2020. Azure-winged magpies fail to understand the principle of mirror imaging. *Behavioural Processes*. 177: 104155.
- **Ullah, S.**, Li, Z., Arifeen, M.Z.U., Khan, S.U. and Fahad, S. 2019. Multiple biomarkers based appraisal of deltamethrin induced toxicity in silver carp (*Hypophthalmichthys molitrix*). *Chemosphere*. 214: 519-533.
- \***Ullah, S.**, Li, Z. 2019. Hydro-electric power in the Panjkora basin at the expense of environmental deterioration and biodiversity loss – Immediate action required for mitigation. *Environmental Science and Pollution Research*. 26(1): 1008-1011.
- \***Ullah, S.**, Li, Z., Zuberi, A., Arifeen, M.Z.U. and Baig, M.M.F.A. 2019. Biomarkers of pyrethroid toxicity in fish. *Environmental Chemistry Letters*. 17(2): 945-973.
- Afridi, A.J., Zuberi, A., Yousafzai, A.M., Maria., Kamran, M. and \***Ullah, S.** 2019. Hemp (Marijuana) reverted Copper-induced toxic effects on the essential fatty acid profile of *Labeo rohita* and *Cirrhinus mrigala*. *Molecular Biology Reports*. 46(1):391-401.
- **Ullah, S.**, Li, Z., Hasan, Z., Khan, S.U. and Fahad, S. 2018. Malathion induced oxidative stress leads to histopathological and biochemical toxicity in the liver of rohu (*Labeo rohita*, Hamilton) at acute concentration. *Ecotoxicology and Environmental Safety*. 161(2018): 270-280.
- \***Ullah, S.**, Zuberi, A., Alagawany, M., Farag, M.R., Dadar, M., Karthik, K., Tiwari, R., Dhama, K. and Iqbal, H.M.N. 2018. Cypermethrin induced toxicities in fish and adverse health outcomes: Its prevention and control measure adaptation. *Journal of Environmental Management*. 206 (2018): 863-871.
- **Ullah, S.**, Khan, S.U., Saleh, T.A. and Fahad, S. 2018. Mad honey: uses, intoxicating/poisoning effects, diagnosis, and treatment. *RSC Advances*. 8(33): 18635-18646.
- Rajper, S.A., \*\***Ullah, S.** and Li, Z. 2018. Exposure to air pollution and self-reported effects on Chinese students: A case study of 13 megacities. *PLoS One*. 13(3): e0194364.
- Guan, M., Fang, W., **Ullah, S.**, Zhang, X., Saquib, Q. and Al-khedhairi, A.A. 2018. Functional genomics assessment of narcotic and specific acting chemical pollutants using *E. coli*. *Environmental Pollution*. 232: 146-153.
- Nabi, G., **Ullah, S.**, Khan, Suliman, Ahmad, S. and Kumar, S. 2018. China-Pakistan Economic Corridor (CPEC): melting glaciers—a potential threat to ecosystem and biodiversity. *Environmental Science and Pollution Research*. 25(4): 3209-3210.
- Amir, I., Zuberi, A., Imran, M. and **Ullah, S.** 2018. Evaluation of yeast and bacterial based probiotics for early rearing of *Labeo rohita* (Hamilton, 1822). *Aquaculture Research*. 49(12): 3856-3863.
- \***Ullah, S.**, Hasan, Z., Zorriehzahra, M.J. and Ahmad, S. 2017. Diagnosis of endosulfan induced DNA damage in rohu (*Labeo rohita*, Hamilton) using comet assay. *Iranian Journal of Fisheries Sciences*. 16(1): 138-149.
- \***Ullah, S.**, Hasan, Z. and Zuberi, A. 2016. Heavy metals in three commercially valuable cyprinids in the river Panjkora, district Lower Dir, Khyber Pakhtunkhwa, Pakistan. *Toxicological & Environmental Chemistry*. 98(1): 64-76.
- \***Ullah, S.**, Begum, M., Ahmad, S. and Dhama, K. 2016. Genotoxic effect of endosulfan at sublethal concentrations in mori (*Cirrhinus mrigala*) fish using single cell gel electrophoresis (comet) assay. *International Journal of Pharmacology*. 12(3): 169-176.
- **Ullah, S.**, Rahman, K. and Hedayati, M. 2016. Hyperbilirubenemia in neonates: types, causes, clinical examination, preventive measures and treatment: a narrative review article. *Iranian Journal of Public Health*. 45(5): 558-568.
- \***Ullah, S.**, Hasan, Z. and Dhama, K. 2016. Toxic effects of endosulfan on behavior, protein contents and antioxidant enzyme system in gills, brain, liver, and muscle tissues of rohu, *Labeo rohita*. *International Journal of Pharmacology*. 12(1): 1-10.
- **Ullah, S.**, Hussain, Z., Mahboob, S. and Al-Ghanim, K. 2016. Heavy Metals in *Garra gotyla*, *Cyprinus carpio* and *Cyprinion watsoni* from the River Panjkora, District, Lower Dir, Khyber Pakhtunkhwa, Pakistan. *Brazilian Archives of Biology and Technology*. 59: e16160321.
- Ullah, R., Zuberi, A., Muhammad, N. and **Ullah, S.** 2015. Toxicity to hematology and morphology of liver, brain, and gills during acute exposure of mahseer (*Tor putitora*) to Cypermethrin. *International Journal of Agriculture and Biology*. 17(1): 199-204.
- Ullah, R., Zuberi, A., **Ullah, S.**, Ullah, I., Ullah, F. 2014. Cypermethrin induced behavioral and biochemical changes in mahseer, *Tor putitora*. *Journal of Toxicological Sciences*. 39(6): 829-836.
- Hasan, Z., **Ullah, S.**, Rasheed, S.B., Kakar, A. and Ali, N. 2013. Ichthyofaunal diversity of river Panjkora, District Dir Lower, Khyber Pakhtunkhwa. *The Journal of Animal and Plant Sciences*. 25(3): 550-563.

- Hasan, Z., Ullah, N., **Ullah, S.** and Kakar, A., 2015. Ichthyo-diversity of river Zhob, district Zhob, Balochistan. The Journal of Animal and Plant Sciences. 25(3): 532-535.

\* = Corresponding Author; \*\* = Equal Contributor

Citations: 12650+; h-index: 36 (Source: ResearchGate, September 2025)

Citations: 14450+; h-index: 35; i10-index: 78 (Source: Google Scholar, September 2025)

ResearchGate Profile: [https://www.researchgate.net/profile/Sana\\_Ullah22](https://www.researchgate.net/profile/Sana_Ullah22)

Google Scholar: <https://scholar.google.com/citations?user=1f6AkNwAAAAJ&hl=en>

## Conferences, Seminars, and Presentations

- June 18-19, 2025: Participated as a presenter in SymBio2025 – International Symposium (Hybrid): From Proposal to Discovery – Emerging Research in Zoology, arranged by the University of Swat.
- Dec 7-8, 2024: Participated as a **Keynote Speaker** in the 1<sup>st</sup> International Conference on Sciences for Future Trends (ICSFT 2024), arranged by the University of Lahore. → Delivered a keynote talk on “Zoology as an Interdisciplinary Subject with a Focus on Animal Modeling in Modern Research”.
- Sep 4, 2024: Participated as **National Keynote Speaker** in SymBio, arranged by the University of Swat. → Delivered a keynote talk on “Zoology as an interdisciplinary subject”.
- Dec 10-11, 2020: Participation as an **Invited Keynote Speaker** in the 1<sup>st</sup> International Conference on Emerging Trends in Inter-Disciplinary Research in Biomedical Sciences (ETIRBS-2020) at the University of Okara, Okara Pakistan. → Delivered a talk on the “Role of Zoology in Biomedical Sciences”.
- Sep 21-23, 2018: **Oral presentation** in the 12<sup>th</sup> Zoological Conference and Academic Meeting, arranged by Jiangsu Zoological Society in association with Nanjing Agricultural University, Nanjing Normal University, and major Research Institutes from Jiangsu Province of P.R. China. → Won the best thesis award, out of 93 theses (from over 80 universities and research institutes).
- **Ullah, S.** 2018. **Oral Presentation:** Pesticides' exposure and hepatotoxicity in fish. Nara Women's University, Nara, Japan (During Japan-Asia Youth Exchange Program (Sakura Science Project) from September 9th to 20th, 2018.
- **Ullah, S.** 2018. **Oral Presentation:** Pesticide exposure and hepatotoxicity induction. School of Environmental Sciences and Resources, Anhui University, Anqing, Anhui.
- Shoaib, A., Zuberi, A., Aslam, S., **Ullah, S.** and Younis, N. 2015. Effect of stocking density on growth performance and survival of *Oreochromis niloticus* in cage culture system. 5<sup>th</sup> IFS (Fisheries Trade, Investment and Opportunities), Lahore, Pakistan.
- April 2-4, 2014: **Active participation and Oral presentation** in the 33<sup>rd</sup> Pakistan Congress of Zoology (International) at Pakistan Convention Hall, jointly arranged by Pakistan Museum of Natural History, Islamabad, and PMAS Arid Agriculture University, Rawalpindi, Pakistan.
- March 6-8, 2012: **Active participation and Oral presentation** in the 32<sup>nd</sup> Pakistan Congress of Zoology (International) at Government College University, Lahore, Pakistan.

## MS/MPhil Students Supervised

- **Sardar Suleman** (2023) Trichlorfon induced hematological and biochemical toxicity in Rohu (*Labeo rohita*). Graduated with MS in Zoology.
- **Aansa Ejaz** (2023) Heavy metal load in selected commercially valuable fish species and associated human health risks at district Khushab, Punjab, Pakistan. Graduated with MS in Zoology.
- **Muneeba Shaheen** (2023) Heavy metal bioaccumulation and subsequent toxic impacts on commercially valuable fish species in river Jhelum at district Khushab. Graduated with MS in Zoology.
- **Babar Rehman Khan** (2023) Air pollution mediated hostile effects on hematology and selected biochemical indices of traffic wardens at district Khushab, Punjab, Pakistan. Graduated with MS in Zoology.
- **Muhammad Khawar Hayyat** (2024) Chlorfenapyr Mediated Behavioral, Hematological, Liver Histopathological, and Selected Biochemical Toxicities in *Labeo rohita* in Water dispersible Granules Formulation. Graduated with MS in Zoology.
- **Raheel Fatima** (2024) Hemato-biochemical Profile and Risk Perception of Farmers Regarding Pesticides Use at District Khushab, Punjab. Graduated with MS in Zoology.
- **Ghulam Sakeena** (2024) Prevalence of Anemia among Pregnant Women, Association with Socio- demographic Factors, and Hemoglobin Profiling in District Khushab. Graduated with MS in Zoology.
- **Insha Rehman** (2024) A Comparative Study on the Proximate Composition of Commercially Valuable Fish

- Species Consumed at District Khushab, Punjab. Graduated with MS in Zoology.
- **Shanzeel Ahmed** (2024) Culturing zooplanktons (*Moina* and *Daphnia*) for the maximum survival and growth of fries of *Clarias gariepinus*. Graduated with MS in Zoology.
  - **Muhammad Ammar Jabbar** (2024) Instant super (Nitenpyram) mediated behavioral, hematological, selected biochemical, and histopathological toxicities on Rohu (*Labeo rohita*). Graduated with MS in Zoology.
  - **Muhammad Kashif Ashraf** (2025) Bioaccumulation and trophic transfer of heavy metals in three fish species of different feeding regimes and associated toxicities at Khushab Lake. Graduated with MS in Zoology.
  - **Muhammad Bilal** (2025) Heavy metals bioaccumulation and hemato-biochemical, physiological, and histopathological profiling of three indigenous fish species from river Jhelum. Graduated with MS in Zoology.
  - **Muhammad Sohail** (2025) Multiple biomarkers based appraisal of Methomyl induced toxicities in Nile tilapia (*Oreochromis niloticus*). Graduated with MS in Zoology.
  - **Palwasha Asif** (2025) Comparative determination of essential elements and heavy metals in wild and farm reared *Labeo rohita*. Graduated with MS in Zoology.
  - **Sehrish Ijaz** (2025) Bioaccumulation of heavy metals and subsequent hemato-biochemical effects on *Cyprinus carpio* and *Cirrhinus mrigala*. Graduated with MS in Zoology.
  - **Mehwish Saleem** (2025) Dichlorvos induced behavioral, hemato-biochemical, and histopathological toxicities in grass carp (*Ctenopharyngodon idella*). Graduated with MS in Zoology.

### Research Students Co-Supervised

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- Asya Murad (2023) – MS in Zoology from Kohat University of Science and Technology, Khyber Pakhtunkhwa
- Azam Hussain (2023) – MS in Chemistry from the University of Education, Lahore.
- Amna Akbar (2024) – MS in Chemistry from the University of Education, Lahore.
- Muhammad Hasnain (2025) – MS in Chemistry from the University of Education, Lahore.
- Wardah Fazal (2025) – MS in Zoology from the University of Education, Lahore.
- Tayyaba Shahid (2025) – MS in Zoology from the University of Lahore (Sargodha Campus)
- Kashifa Malik (2025) – MS in Zoology from the University of Lahore (Sargodha Campus)
- Romana (2026) – *viva* awaiting – MS in Zoology from the University of Malakand, Khyber Pakhtunkhwa

### Research Students under Supervision

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- Amina Parveen (2026) –
- Ayesha Firdoos (2026) –
- Nayab Sehar (2026) –
- Jaweria Shafique (2026) –
- Tehreem Asif (2026) –
- Jahazeb Iqbal (2026) –

### References

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- Prof. Dr. Zhongqiu Li (PhD Research Supervisor)  
Head, Animal Behavior and Conservation Lab,  
School of Life Sciences, Nanjing University, Nanjing, Jiangsu, P.R. China  
Email: lizq@nju.edu.cn / lizq0314@gmail.com
- Prof. Dr. Amina Zuberi (MPhil Research Supervisor)  
Head, Fisheries and Aquaculture Program / Fisheries Research Station,  
Chairperson, Department of Zoology, Quaid-i-Azam University, Islamabad, Pakistan  
Email: amina.zuberi@qau.edu.pk / amina871@hotmail.com
- Dr. Zaigham Hasan (MSc Research Supervisor)  
Assistant Professor and Head (Fisheries Lab)  
Department of Zoology, University of Peshawar, Khyber Pakhtunkhwa, Pakistan  
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