

Dr. Rana Manzoor Ahmad

Life Fellow Zoological Society of Pakistan

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Overview

I, Dr. RM Ahmad have completed my PhD in the subject of Zoology in 2018 from University of the Punjab, Lahore, Pakistan. My research area includes all aspects of the Animal Sciences specially their Paleontology and Ecology. I have carried out team leading, supervisory and collaborative research in these areas and has published the reference data on the Ecology of the Siwalik Neogene Mammals, Interspecific Variations of the European Rabbits, Native-Alien Ecological Interactions in the Riverine Systems of Pakistan. I have not only published these reference research contributions in the ISI Index well reputed International Journals and Book Chapter/Conference Proceedings with Publishers like Springer Nature but also presented my research in seven different countries of the world.

Employment Profile

Position	Organization	Period	Duties Performed
Assistant Professor (TTS)	Department of Zoology, Government College University, Lahore	01-11-2022 to date	Research supervision of the PhD, MPhil and BS students. Teaching of courses; Vertebrate Paleontology, Invertebrate Paleontology, Zoogeography and Paleontology, Animal Diversity (Invertebrates), Animal Diversity (Chordates), Wildlife, Evolution at the graduate and post graduate level. Performing the duties related with departmental and institutional development. Organizing different academic events at the departmental level. Along with this the community services by reviewing articles for journals and evaluating of graduate and post graduate thesis from other universities.
Assistant Professor (TTS)	Department of Zoology, University of Okara, Okara	06-03-2020 to 31-10-2022	Research supervision of the PhD, MPhil and BS students. Teaching of courses; Principles of Systematic Zoology, Pollution Ecology and Sustainability, Biological Techniques, Economic Zoology, Community Ecology, Advances in Ecology, General Ecology, Animal Diversity, Cell Biology, Evolution. Performing the duties related with departmental and institutional development. Organizing different academic events at the departmental level. Along with this the community services by reviewing articles for journals and evaluating of graduate and post graduate thesis from other universities.

Assistant Professor (IPFP)	Department of Zoology, University of Okara, Okara	12-03-2019 to 05-03-2020	Teaching of courses; Animal Diversity, Wildlife, Fish Ecology, Advances in Ecology at graduate and post graduate level. Performing the duties related with departmental and institutional development.
Assistant Professor	Department of Zoology, University of Sargodha, Lyallpur Campus, Faisalabad	12-10-2018 to 15-01-2019	Teaching of courses; Zoogeography and Paleontology, Wildlife and Fisheries, Genetics. Performing the duties related with departmental and institutional development.
Lecturer	Department of Zoology, University of Sargodha, Lyallpur Campus, Faisalabad	01-11-2015 to 11-10-2018 (promoted to AP)	Teaching of courses; Zoogeography and Paleontology, Wildlife and Fisheries, Genetics, Cell and Molecular Biology, Animal Ecology, Principles of Toxicology, Principles of Animal Life, Animal Diversity (Invertebrates), Animal Diversity (Chordates). Performing the duties related with departmental and institutional development.
Secondary School Teacher	Govt. Central Model School, Samanabad, Lahore	15-08-2009 to 31-10-2015	Teaching of the subject of Biology and Chemistry to the higher class (9th and 10th classes). Established the First ever School Level Fossil Display Center of the Country in this school. Motivation of the school students for Sports, Co-curricular and Extracurricular activities. Focal Person of the Dengue Awareness and Prevention Measures at School Level. Focal Person for the intra and inter school Scientific Competitions and Activities.

Educational Background

Degree	Year	Institution	Major Subjects/Field of Research
PhD (Zoology)	2018	University of the Punjab, Lahore	Paleontology
MPhil (Molecular Biology & Biotechnology)	2011	University of Veterinary and Animal Sciences, Lahore	Medical Genetics
MSc (Zoology)	2008	University of the Punjab, Lahore	Zoology

Research Publications

1. Shouket, U., Ahmad, R. M., Waseem, M. T., Khan, A. M. and Zubaid, S. (2024). Niche partitioning and competition between different rabbit breeds using stable isotopes. *World Rabbit Science*, 32(1), 73-81.
2. Sattar, R. Z., Ahmad, R. M., Khan, A. M., Altaf, M., Rizwan, M. and Yaseen, S. (2024). Pre and Post Breeding Morphometric Profile of European Rabbit (*Oryctolagus cuniculus*). *Journal of Bioresource Management*, 11(1), 42-50.
3. Kanwal, S., Arshad, M., Ahmad, R.M., Ali, K., Asad, M., Nasir, M. F. and Saleem, M., 2023. Impact of Pesticides on the Morphological Characteristics and the Diversity of Earthworm Species from District Okara Punjab Pakistan. *Journal of Survey in Fisheries Sciences*, 10(2), 482-491.
4. Iqbal, K. J., Umair, M., Altaf, M., Hussain, T., Ahmad, R.M., Abdeen, S. M. Z. U. and Bussmann, R. W., 2023. Cross-cultural diversity analysis: traditional knowledge and uses of freshwater fish species by indigenous peoples of southern Punjab, Pakistan. *Journal of Ethnobiology and Ethnomedicine*, 19(1), 1-17.
5. Said, A., Imran, M., Waseem, M. T., Khan, A. M., Khalique, N., Sarwar, G. and Ahmad, R.M., 2022. Feeding niche overlap between native and alien fishes in Swat River, Khyber Pakhtunkhwa, Pakistan. *Environmental Biology of Fishes*, 105(4), 509-518.
6. Ameen, M., Khan, A. M., Ahmad, R.M., Ijaz, M. U. and Imran, M., 2022. Tooth marker of ecological abnormality: The interpretation of stress in extinct mega herbivores (proboscideans) of the Siwaliks of Pakistan. *Ecology and Evolution*, 12(11), e9432.
7. Waseem, M. T., Khan, A. M., Ghaffar, A., Iqbal, A. and Ahmad, R.M., 2021. Palaeodietary and paleoclimates reconstruction for late Miocene hippopotamines from the Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 35(1), 69-76.
8. Imran, M., Khan, A. M., Altaf, M., Ameen, M., Ahmad, R.M., Waseem, M. T. and Sarwar, G., 2021. Impact of alien fishes on the distribution pattern of indigenous freshwater fishes of Punjab, Pakistan. *Brazilian Journal of Biology*, 82, 1-10.
9. Waseem, M. T., Khan, A. M., Quade, J., Krupa, A., Dettman, D. L., Rafeh, A. and Ahmad, R.M., 2021. Stable isotope analysis of middle Miocene mammals from the Siwalik sub-Group of Pakistan. *Acta Palaeontologica Polonica*, 66(3), s123-132.
10. Ameen, M., Khan, A. M., Ahmad, R.M., Iqbal, A., and Akhtar, M., 2021. Appraisal of Dental Enamel Hypoplasia in The Middle Miocene Deinotheriidae: Implications of the Siwalik Paleo environment Of Pakistan. *Revista Brasileira de Paleontologia*, 24(4), 357-368.
11. Aslam, S., Khan, A.M., Ahmad, R.M., Iqbal, A. and Waseem, M.T., 2021. Systematic study of the new remains of *Propotamochoerus hysudricus* (Suidae, Mammalia) from the Late Miocene-Early Pliocene of Middle Siwaliks (Pakistan). *Arabian Journal of Geosciences*, 14(2), 1-15.
12. Khan, A.M., Waseem, M.T., Ahmad, R.M., Iqbal, A., Naz, H.I., Rafeh, A. and Ameen, M., 2021. First Record of *Eotragus noyaei* from the Late Miocene Siwaliks of Pakistan. *Pakistan journal of Zoology*, 53(2), 423-430.

13. Rizwan, M., Ahmad, R. M., Khan, A. M., Khalid, M. and Wajid, M., 2021. Craniometric analysis of European rabbit (*Oryctolagus cuniculus*) breeds to trace out intraspecific and inter gender morphometric variations. *Journal of Bioresource Management*, 8(3), 41-56.
14. Rafeh, A., Khan, A.M., Ahmad, R.M., Iqbal, M. and Akhtar, M., 2020. Systematic and paleoecological study of the new remains of *Brachypotherium* (Rhinocerotidae) from the Middle Miocene Siwaliks (Pakistan). *Arabian Journal of Geosciences*, 13(14), 1-20.
15. Ahmad, R.M., Khan, A.M., Iqbal, A., Rafeh, A., Waseem, M.T. and Ameen, M., 2020. First Report of Enamel Hypoplasia in Extinct Tragulids: A Marker Bearing on Habitat Change. *Pakistan Journal of Zoology*, 52(2), 495-502.
16. Khan, A.M., Iqbal, A., Waseem, M.T., Ahmad, R.M. and Ali, Z., 2020. Palaeodietary and Palaeoclimatic Interpretations for Herbivore Fauna from Late Pliocene to Early Pleistocene Siwaliks of Pakistan. *Journal of Animal and Plant Sciences*, 30(2), 355-363.
17. Ameen, M., Khan, A.M., Tahir Waseem, M., Ahmad, R.M., Iqbal, A., Rafeh, A. and Imran, M., 2020. Were Late Gomphotheres (Plio-Pleistocene) of the Siwaliks at more Stress as Compared to Early Gomphotheres (Middle to Late Miocene?). *Journal of Bioresource Management*, 7(4), 117-129.
18. Waseem, M.T., Khan, A.M., Khalid, S., Ahmad, R.M., Iqbal, A. and Ameen, M., 2020. Systematic Study of Boselaphine Remains from the Late Miocene of Hasnot, Pakistan. *Punjab University Journal of Zoology*, 35(1), 69-76.
19. Iqbal, A., Sarwar, G., Khan, A.M., Waseem, M.T., Ahmad, R.M. and Ameen, M., 2020. Craniometrical Analysis of Wild Boar (*Sus scrofa*) from Northern Punjab, Pakistan. *Punjab University Journal of Zoology*, 35(1), 157-165.
20. Ahmad, R.M., Khan, A.M., Roohi, G. and Akhtar, M., 2018. Enamel hypoplasia analysis in giraffids to compare stress episodes in geological history of the Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 50(1), 149-158.
21. Rafeh, A., Ahmad, R.M., Iqbal, A. and Khan, A.M., 2018. Description of *Gazella* sp. from the Middle Miocene Siwaliks of Punjab, Pakistan. *Punjab University Journal of Zoology*, 33(2), 127-131.
22. Waseem, M.T., Sarwar, M.A., Ahmad, R.M. and Khan, A.M., 2016. Newly discovered fossil remains of *Selenopartax vexillarius* from Hasnot, locality of Siwaliks of Pakistan. *Punjab University Journal of Zoology*, 31(1), 53-58.
23. Sarwar, H.M.A., Waseem, M.T., Khan, A.M. and Ahmad, R.M., 2016. *Propotamochoerus hysudricus* remains from late Miocene deposits of Hasnot, Pakistan. *Punjab University Journal of Zoology*, 31(2), 243-248.
24. Roohi, G., Raza, S.M., Khan, A.M., Ahmad, R.M. and Akhtar, M., 2015. Enamel hypoplasia in Siwalik rhinocerotids and its correlation with Neogene climate. *Pakistan Journal of Zoology*, 47(5), 1433-1443.

Book Chapters/Conference Proceedings

1. Khan, A. M., Waseem, M. T., Rasool, F., Sarwar, G., Iqbal, A., Ameen, M., & Ahmad R.M. (2022). The Prototype Development of Cost-Effective Water Purification System for Remote Areas and Its Efficiency against Heavy Metals. In *Sustainable Energy-Water-Environment Nexus in Deserts: Proceeding of the First International Conference on Sustainable Energy-Water-Environment Nexus in Desert Climates* (pp. 167-172). Cham: Springer International Publishing.
2. Khan, A. M., Waseem, M. T., Sarwar, G., Ameen, M., Ahmad R.M., Rasool, F., & Javed, S. (2022). The Microbial and Physicochemical Analysis and Treatment of Groundwater of South Punjab, Pakistan. In *Sustainable Energy-Water-Environment Nexus in Deserts: Proceeding of the First International Conference on Sustainable Energy-Water-Environment Nexus in Desert Climates* (pp. 95-101). Cham: Springer International Publishing.
3. Ahmad R.M., Khan A.M., Rafeh A., Iqbal A., Roohi G. (2019) Why Anthracotheroides had Faced Family Level Extinction: Enamel Hypoplasia an Answer to the Question. In: Chenchouni H., Errami E., Rocha F., Sabato L. (eds) Exploring the Nexus of Geoecology, Geography, Geoarcheology and Geotourism: Advances and Applications for Sustainable Development in Environmental Sciences and Agroforestry Research. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham
4. Khan A.M., Ahmad R.M., Iqbal A. (2019) Ecological Interactions of Miocene to Pleistocene Siwalik Bovids, Suids and Giraffids Traced Out by Enamel Hypoplasia Analysis. In: Chenchouni H., Errami E., Rocha F., Sabato L. (eds) Exploring the Nexus of Geoecology, Geography, Geoarcheology and Geotourism: Advances and Applications for Sustainable Development in Environmental Sciences and Agroforestry Research. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham
5. Rafeh A., Khan A.M., Ahmad R.M., Akhtar M. (2019) Dental Morphology and Palaeoecological Implications of *Brachypotherium* (Rhinocerotidae) of the Middle Miocene Siwaliks (Pakistan). In: Boughdiri M., Bádenas B., Selden P., Jaillard E., Bengtson P., Granier B. (eds) Paleobiodiversity and Tectono-Sedimentary Records in the Mediterranean Tethys and Related Eastern Areas. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham
6. Iqbal A., Khan A.M., Ahmad R.M., Khan M.A., Akhtar M. (2019) Systematics and Palaeo-Environmental Implications of *Hexaprotodon Sivalensis* (Hippopotamidae, Mammalia) from the Plio-Pleistocene Upper Siwaliks (Pakistan). In: Boughdiri M., Bádenas B., Selden P., Jaillard E., Bengtson P., Granier B. (eds) Paleobiodiversity and Tectono-Sedimentary Records in the Mediterranean Tethys and Related Eastern Areas. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham

7. Aslam S., Khan A.M., Ahmad R.M., Iqbal A., Akhtar M. (2019) Systematic Study of the New Remains of *Propotamochoerus Hysundricus* (Suidae, Mammalia) from the Late Miocene-Early Pliocene Middle Siwaliks (Pakistan). In: Boughdiri M., Bádenas B., Selden P., Jaillard E., Bengtson P., Granier B. (eds) Paleobiodiversity and Tectono-Sedimentary Records in the Mediterranean Tethys and Related Eastern Areas. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham

International Conferences Presentations (Foreign Countries)

1. Oral Presentation titled, “Enamel Hypoplasia Based Comparative Ecological Response of the Early and Late Pliocene Siwalik Cervids” in Mediterranean Geosciences Union Annual Meeting 2024 (MedGU-24), held at **University of Barcelona, Spain** (2024)
2. Oral presentation titled, “Trophic Niche Overlap among Native and Alien Fish Species: A Challenge for the Aquatic Ecosystems” in the International Conference on Advancing Sustainable Futures (ICASF 2023) , held in **Dubai, United Arab Emirates** (2023)
3. Oral presentation titled, “How the Prehistoric Cenozoic Mammals Response to the Miocene to Pleistocene Siwalik Environmental Stresses, An Enamel Hypoplasia based Answer” in the International Conference and Exhibition for Science (ICES2023), held in **Riyadh, Saudi Arabia** (2023)
4. Oral presentation titled, “Interspecific Comparison of Enamel Hypoplasia in the Siwalik Hipparrison of Pakistan” in the 6th International Palaeontological Congress (IPC6), held in **Khon Kaen, Thailand** (2022)
5. Oral presentation titled, “Taxonomic and Biogeographic investigation of Pliocene Hominids from the Siwalik sub-Group of Pakistan” in the 6th International Palaeontological Congress (IPC6), held in **Khon Kaen, Thailand** (2022)
6. Oral presentation titled, “Enamel Hypoplasia points out Depletion of Water Bodies as an Ecological Stress for Mio-Pliocene Amphibious Mammals” in the Mediterranean Geosciences Union Annual Meeting, held in **Istanbul, Turkey** (2021)
7. Oral presentation titled, “Rhinocerotids as the Ecologically Most Successful Siwalik Ungulates: Enamel Hypoplasia based Implication” in the **80th Annual Meeting of the Society of Vertebrate Paleontology**, Virtual (2020).
8. Poster presentation titled, “The Microbial Analysis and Treatment of Ground Water of Punjab, Pakistan by Using Cost Effective Indigenous Water Purification System” in the International conference on sustainable energy-water-environment nexus in desert climate, held in **Doha, Qatar** (2019)
9. Oral presentation titled, “Why Anthracotheroides had Faced Family Level Extinction: Enamel Hypoplasia an Answer to the Question” in the 1st Conference of the Arabian Journal of Geosciences, held in **Hammamet, Tunisia** (2018)

Research Supervision

PhD Research Students

(04 in Process)

Institution	Student Name	Area of Research	Current Status
Government College University, Lahore	Mr. Tahir Shahzad	Paleoecology	Synopsis/Research Proposal is Submitted
	Ms. Aqsa Arshad	Paleoecology	Synopsis/Research Proposal is Submitted
	Ms. Ayesha Zareen	Ecology	Course Work Completed and Synopsis/Research Proposal is in Process
	Ms. Zuneera Hassan	Ecology	Course Work Completed and Synopsis/Research Proposal is in Process

MS/MPhil Research Students

(15 Completed, 02 Thesis Submitted, 05 in Process)*

Total =22

Institution	Student Name and Session	Thesis Titles	Current Status
Government College University, Lahore	Khadija Bibi Fall 2022-24	Comparative Morphometric and Craniometric Analysis between River and Farmed <i>Labeo rohita</i>	Completed
	Eman Arshad Fall 2022-24	Comparative Morphometric and Craniometric Analysis between Wild and Farmed <i>Catla catla</i>	Completed
	Mahnoor Fall 2021-23	Taxonomic and Ecological Study of the Late Miocene Perissodactyls of the Siwalik, Pakistan	Completed
University of Okara, Okara	Mubarak Ali Fall 2020-22	Pre and Post Project Implementation Survey of Zoonotic Disease Specially Rabies Among Educational Institutes, Farmer and Livestock owners, Doctors and Paramedical Staff in Punjab-Pakistan	Completed

	Imtiaz Ahmad Fall 2020-22	Pre and post awareness survey on Crimean Congo Hemorrhagic fever among farmers live-stock owners, educational institutes and health care professionals in Pakistan	Completed
	Shaher Bano Fall 2020-22	Pre and post project implementation survey of awareness on zoonotic diseases among general public in Pakistan.	Completed
	Saleem Akhtar Fall 2020-22	Pre and post project implementation survey of awareness on Scabies disease among educational institutes, farmer and livestock owners and medical center professionals in Pakistan	Completed
	Tabasum Nawaz Fall 2020-22	Immunoinformatics Design of Novel Multi-Epitopes peptide vaccine target against Multidrug resistant (<i>Streptococcus pneumoniae</i>)	Completed
	Zunaira Tariq Fall 2020-22	Comparison of dental and muscular stable isotopic values in the two common breeds of <i>Oryctolagus cuniculus</i> in Pakistan	Completed
	Rao Zahid Sattar Spring 2020-22	Effect of Breeding Season on the Morphometric Profile of Rabbits (<i>Oryctolagus cuniculus</i>)	Completed
	Usama Shoukat Spring 2020-22	Defining the Ecological Niches and Possible Comparison Between Two Breeds of Rabbits using Stable Isotope Analysis.	Completed
	Iram Rasheed Spring 2020-22	Comparative Intraspecific Biochemical Analysis in the Healthy Domestic Rabbit (<i>Oryctolagus cuniculus</i>) of Pakistan	Completed
	Ayesha Qasim Spring 2020-22	Relative Chronological and Intercity Variations in Hepatitis B Patients in Pakistan	Completed
	Muhammad Shoib Spring 2020-22	Oxygen Isotopes; Markers for the Inter Gender and Inter Breed Comparison in the Water Intake Ecological Behavior of the European Rabbits (<i>Oryctolagus cuniculus</i>)	Completed
	Uzma Nazir Spring 2020-22	Variations in the Normal Hematological Parameters of European rabbit (<i>Oryctolagus cuniculus</i>) at Breed, Gender and Country Level	Completed

(*In process students are not included and will be added in this list upon the submission of their thesis)

BS/MSc Research Students

(11 Completed, 04 in Process)*

Total =15

Institution	Student Name and Session	Thesis Titles	Current Status

Government College University, Lahore	Muhammad Usman Haider Fall 2020-24	Distribution, habitat, characteristics and status of the Great Indian Bustard (<i>Ardeotis nigriceps</i>)	Completed
	Sana Pervaiz Fall 2020-24	Risk factors and prevalence of Conjunctivitis	Completed
	Amina Abdul Ghani Fall 2020-24	Enamel Hypoplasia as a physiological and ecological stress marker	Completed
University of Okara, Okara	Salma Bagum Fall 2020-22	Interbred comparison between reproductive potential of the common breed <i>Oryctolagus cuniculus</i> in Pakistan	Completed
	Shahzad Anjum Fall 2020-22	Industrial waste containing heavy Metals impact on Earthworms <i>Lumbricus terrestris</i> in district Okara Punjab, Pakistan	Completed
	Muhammad Arshad Fall 2020-22	Impact of Pesticides on Morphological Characters and Diversity of Earthworm Species in District Okara, Punjab Pakistan	Completed
	Bismillah Spring 2019-21	Punjab Wildlife (Protection, Preservation, Conservation and management) Act, 1974	Completed
	Misbah Khalid Fall 2019-21	Enamel Hypoplasia a Marker to Compare Intraspecific Ecological and Physiological Stability of European Rabbit (<i>Oryctolagus cuniculus</i>)	Completed
	Muhammad Rizwan Fall 2019-21	Craniometric Analysis of European Rabbits (<i>Oryctolagus cuniculus</i>) to Trace out its Intraspecific Morphometric Variations	Completed
	Komal Shoukat Fall 2019-21	Dental morphological Characters; Tools to Trace out Dietary Preferences of Prehistoric and Recent Leporids	Completed
	Rafiqua Akram Fall 2019-21	Association of Dental Variations with Dietary Preferences in the Living and Extinct Bovids	Completed

(*In process students are not included and will be added in this list upon the submission of their thesis)

Awarded Research Projects

- **Principal Investigator** of project titled “The Diversity and Dietary Interaction between the Major Fishes of Water Bodies of Okara, Pakistan” awarded by University of Okara, Okara, duration 01 year (2021-2022), **Status=Completed**
- **Co-Principal Investigator** of project titled “Elucidation of novel potential compounds against Auto(mito)phagy by targeting LC3 and FUNDC1: in silico and in vitro studies” awarded by Higher Education Commission (HEC), Pakistan, duration 01 year (2021-2022) **Status=Completed**

- **Co-Principal Investigator** of project titled “Sequence analysis of mutation pattern among breast cancer patients in Pakistan” awarded by Higher Education Commission (HEC), Pakistan, duration 01 year (2021-2022) **Status=Completed**

Achievements

Established the **First Ever School Level Fossil Display Centre of the Country** at Government Central Model School, Samanabad, Lahore (2013)

Awards /Travel Grants

- PSF Travel Grant to attend “International Conference on Advancing Sustainable Futures” at Abu Dhabi University, Dubai Campus UAE from 5-6 December, 2023.
- PSF Travel Grant to attend “The 6th International Paleontological Congress (IPC6), Mahasarakham University, Thailand” from 7-11 November, 2022.
- PSF Travel Grant to attend “Mediterranean Geoscience Union Annual Meeting (MedGU-21)”, Istanbul Technical University, Istanbul, Turkey on 25-28 Nov, 2021.
- HEC Travel Grant to attend “Himalayan-Karakorum-Tibet Workshop (HKT 2016), France on 09-12 May, 2016.

Organizer Conferences/Seminars/Training Workshops

1. **Organizer** of “Seminar on Molecular Mysteries” Organized by Zoological Society, Government College University Lahore (27 March 2024)
2. **Organizer** of “One Day Seminar on World Fisheries Day” Organized by Department of Zoology, Government College University Lahore (28 November 2023)
3. **Organizer** of “17th National Hands on Training Workshop Organic Beekeeping Practices” Organized by University of the Punjab Institute of Zoology (November 06-14, 2023)
4. **Organizer** of “5th International Conference on Innovative Biological and Public Health Research (IBPHR-2023)” Organized by Department of Zoology, Government College University, Lahore, Pakistan (11-12 October 2023)
5. **Organizer** of “International Conference on New Trends in Biological Sciences” Organized by Institute of Pure and Applied Zoology (IPAZ), University of Okara (21-22 March 2022)
6. **Organizer** of “International Conference on Fisheries and Aquaculture” Organized by Department of Zoology, Government College University, Lahore (November 23-24, 2022)
7. **Member, Organizing Committee** of “Seminar on the Eve of International Biodiversity Day (Online)” Organized by Department of Zoology, University of Okara (May 23, 2020)

8. **Member, Organizing Committee** of “Seminar on Fauna and Flora of Desert of Pakistan (Online)” Organized by Department of Zoology, University of Okara by Zoology (July 14, 2020)
9. **Member, Technical Review and Poster Review Committee** of “1st International Conference on Emerging Trends in Inter-Disciplinary Research in Biomedical Sciences” Organized by University of Okara (December 10-11, 2020)
10. **Member, Local Organizing Committee** of “38th Pakistan Congress of Zoology (International)” Organized by University of the Punjab, Lahore (February 27- March 01, 2018)

Conference Presentations within Country

1. **Invited Speaker** in 2nd International Conference on New Trends in Biological Sciences held at University of Okara, **Okara (2023)**
2. **Oral Presentation** in 41st Pakistan Congress of Zoology (International) held at Department of Zoology, University of the Punjab, **Lahore (2023)**
3. **Oral Presentation** in 5th International Conference Advances in Biosciences: Bridging the Gap between Research and Sustainable Development Goals held at University of Swat, **Swat (2022)**
4. **Poster Presentation** in the International Conference Recent Innovations in Molecular Sciences University of the Punjab, **Lahore (2019)**
5. **Oral Presentation** in 37th Pakistan Congress of Zoology (International) held at Department of Zoology, Govt. College University, **Faisalabad (2017)**
6. **Oral Presentation** in 3rd National Palaeontology Seminar held at Department of Zoology, Govt. College University, **Faisalabad (2016)**
7. **Oral Presentation** in 35th Pakistan Congress of Zoology (International) held at University of Karachi, **Karachi (2015)**
8. **Oral Presentation** in 34th Pakistan Congress of Zoology (International) held at Bahauddin Zakariya University, **Multan (2014)**
9. **Oral Presentation** in 33rd Pakistan Congress of Zoology (International) held at Pakistan Museum of Natural History, **Islamabad (2013)**

Courses/Training Workshops

1. Two Months **Course of Data Science** from ZAFF Institute, Arfa Software Technology Park, Lahore (April 13 to June 16, 2024)
2. Two Days **Training Workshop on Statistical Data Analysis** Organized by Department of Zoology, Government College University, Lahore (September 20-21, 2023)

3. Two Months **Training entitled, Advanced Teaching and Learning Program 2023** Organized by Directorate of Academics, Government College University, Lahore (July 17 to August 16, 2023)
4. Three Days **1st National Hands-on Training Workshop on Current Techniques in Bioinformatics** Organized by Institute of Molecular Biology & Biotechnology, The University of Lahore (December 28-30, 2021)
5. Two Days **Training Workshop on Techniques for Biodiversity Assessment and Aerobiological Monitoring for Ecosystem Health** Organized by Department of Zoology, University of the Punjab, Lahore (February 06-07, 2015)
6. Two Month **Course on Web and Graphics Designing** at Institute of Geology, University of the Punjab, Lahore, Pakistan (November 25 2013 to January 23, 2014)
7. One Week **Workshop on Modern Techniques of Angiogenesis and Toxicology** held at Department of Pharmacology and Toxicology, University of Veterinary and Animal Sciences, Lahore in Collaboration with Department of Clinical Neurosciences, University of Cambridge, United Kingdom (June 01-08, 2010)
8. Two Days **National Workshop on Animal Forensics: DNA Fingerprinting** Organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore (September 21-22, 2010)
9. Five Weeks **Short Summer Course of English Language (Level II)** from National University of Modern Languages, Islamabad, Pakistan (June 08 to July 10, 2009)
10. Two Days **Workshop in Successful Strategies for Teaching** held at Ali Institute of Education, Lahore (November 05-06, 2008)

Participation in Conferences/Seminars/Webinars

Along with the above mentioned Out of Country Presentations, Within Country Presentations, Conferences and other Academic events Organized, Courses and Training Workshops; I have Attended have also participated as an attendee in Twenty Nine (29) Conferences/Seminars/Webinars.

Editorial Member/Reviewer of the Journals

Assistant Managing Editor, Journal of Biological Sciences and Public Health

Member, Editorial Board, Journal of Wildlife and Ecology

Reviewer; Historical Biology, Palaeontologia Electronica, Pakistan Journal of Animal and Plant Sciences, Journal of Bioresource Management

University Services

Sr. No.	Departmental\Institutional Activities	Duration
Institutional Services		
01	Additional Director II, Quality Enhancement Cell (QEC), University of Okara	10-February-2022 to 10-May-2022
02	Member, PhD Programs Rules & Regulation Committee, University of Okara	01-August-2022 to 31-October-2022
03	Member, Institutional Review Board (IBR) Committee, University of Okara	21-April-2021 to 31 - October-2022
04	Member, TTS Standing Committee, University of Okara	13-April-2021 to 31-October-2022
05	Member, Yearly Progress Report (YPR) Committee, University of Okara	23-June-2021 to 31-October-2022
06	Focal Person, Faculty of life Sciences, Quality Enhancement Cell, University of Okara	22-January-2021 to 31-October-2022
07	Member, Board of Studies (BoS), Department of Biology, University of Okara	30-July-2019 to 29-July-2022
08	Member, Board of Studies (BoS), Department of Wildlife & Ecology , University of Okara	30-July-2019 to 29-July-2022
09	Member, Board of Studies (BoS), Department of Molecular Biology, University of Okara	30-July-2019 to 29-July-2022
10	Member, Board of Studies (BoS), Department of Biochemistry, University of Okara	30-July-2019 to 29-July-2022
11	Member, Board of Studies (BoS), Department of Genetics, University of Okara	30-July-2019 to 29-July-2022
Departmental Services		
12	Supports Coordinator, Department of Zoology, Government College University, Lahore	26-January-2023 to date
13	Member, MPhil and Ph.D. Zoology Course Review Committee, Department of Zoology, Government College University, Lahore	19-July-2023 to date
14	Member, Departmental Technical Committee, Stephenson Natural History Museum Department of Zoology, Government College University, Lahore	17-March-2023 to date

15	Incharge Internal Examination, Under-graduate Studies Department of Zoology, University of Okara	26-February-2021 to 31-October-2022
16	Member of Admission Committee, Department of Bioinformatics, University of Okara	15-September-2020 to 31-October-2022
17	Convener, Sports Committee, Department of Zoology, University of Okara	17-December-2020 to 31-October-2022
18	Member, HEC Related Issues & Event Organizing Committee, Department of Zoology, University of Okara	17-December-2020 to 31- October-2022
19	Member, Purchase Committee, Departmental of Zoology, University of Okara	17-December-2020 to 31-October-2022
20	Member, Associate Degree in Sciences (ADS) Committee, Departmental of Zoology, University of Okara	15-December-2020 to 31 October-2022