

Curriculum Vitae



OBJECTIVE

To accept challenging position in the world of Animal Sciences, teaching and utilize personal abilities to provide effective and efficient services to achieve intended results.

Name : **Dr. MUHAMMAD MUDASSAR SHAHZAD**
Father's Name : SHAHZAD AHMAD
CNIC. No. : 37201-3737497-1
Postal Address : House No. MCB 1/1600 near Muhammadia Ghosia Masjid
Mohalla Faisal Colony Talagang road Chakwal, Pakistan.
Phone # : Mob. +92-334-5934911; +92-345-5734815
E-mail : drmudassarshahzad@gmail.com; mudassarshahzad.uos@gmail.com

Job: (IPFP) 12th April 2018: Department of Zoology, University of Education Township Lahore

Education:

- **Ph.D. Zoology, 2017**

Department of Zoology, Government College University, Faisalabad, Pakistan

- **M.Ed. (Teacher education) 2016**

Allama Iqbal Open University Islamabad, Pakistan

- **M. Phil. Zoology, 2013**

Department of Zoology, Government College University, Faisalabad, Pakistan

- **B.Ed. (Biology and Chemistry) 2013**

Allama Iqbal Open University Islamabad, Pakistan

- **M. Sc. Zoology, 2011**

Department of Zoology, University of Sargodha, Sargodha, Pakistan

- **B.Sc. Zoology, Chemistry, Computer. 2009**

Government Post Graduate College Chakwal, Pakistan (under University of Punjab)

- **F.Sc. Biology, Chemistry, Physics, 2006**

Government Post Graduate College Chakwal, Pakistan (under BISE Rawalpindi)

- **Matric Biology, Chemistry, Physics. Math, 2003**

Govt. High School, Thanil Kamal, Chakwal, Pakistan (under BISE Rawalpindi)

Research Interests:

- My research interests are to improve the apparent nutrient digestibility of plant by-product ingredients through the inclusion of different supplementations.
- Preparation of cost effective fish feed by optimizing the levels of phytase for environment friendly aquaculture.

Research work:

- **MSc thesis title:.** Potential effects of abiotic factors on population dynamics of fruit fly (*Bactrocera dorsalis*) larvae and pupae in citrus and guava fruits in Sargodha region, Pakistan
- **MPhil thesis title:.** Role of phytase supplementation in improving growth performance and nutrient digestibility of *Cirrhinus mrigala* fingerlings fed on Soybean meal-based diet
- **PhD thesis title:.** Effect of phytase supplementation on nutrient digestibility and growth performance of *Catla catla* fingerlings fed Moringa by-products based diets

Research Projects

Development of economic and eco-friendly feed for the Common carp and Tilapia fingerlings fed on phytase supplemented moringa by-products based diets. (SRPG 0.5 Million)

Supervision

Sr.	Student Name	Title	University	Degree
1	Sana Bashir	Development of economical and eco-friendly feed for common carp fingerlings fed on phytase supplemented Moringa by-product based diet.	University of Education Township Lahore	MS Zoology (2017-19)
2	Iram Liaquat	Effect of phytase supplemented Moringa by-products based diets on digestibility, histopathology and genes of Tilapia fingerlings.	University of Education Township Lahore	MS Zoology (2017-19)
3	Muammad Tahir Rafique	Role of phytase supplementation in improving Carcass, Hematology and Immunology of common carp fingerlings fed Moringa by-product based diet.	University of Education Township Lahore	BS Zoology (2015-19)
4	Kashif Riaz	Comparative study of proximate composition and mineral contents in Common carp and Silver carp collected from different water reservoirs	University of Education Township Lahore	BS Zoology (2015-19)
5	Fajar Un Nisa	Study of scales and proximate	University of	BS Zoology

	Khan	composition in Tilapia and grass carp collected from different water reservoirs	Education Township Lahore	(2015-19)
6	Mishal Chaudhary	Use of phytase supplementation in plant by-products for the development of cost effective and environment friendly fish feed for Tilapia fingerlings.	University of Education Township Lahore	BS Zoology

DISTINCTIONS

- ✓ **3rd position** in poster competition on World Fisheries Day (21 November 2016) organized by Department of Zoology, Government College University, Faisalabad.
- ✓ **2nd position** in Flower Exhibition arranged by Department of Environmental Sciences, Government College University, Faisalabad (29 March, 2012).
- ✓ **2nd position** in Poster Competition and Presentation in “Green Industry Green Pakistan Video and poster competition” arranged by Ministry of Industries Government of Pakistan.
- ✓ President of Departmental Societies of the Department of Zoology, Wildlife and Fisheries, Government College University, Faisalabad (2011-13).

PUBLISHED PAPERS

- Hussain, S.M., **M.M. Shahzad**, M. Afzal, F. Jabeen, S. Nasir, A. Javid, M.A. Chaudhary, S. Ahmad, M.Z.H. Arsalan, D. Riaz, T.A.A. Khichi, A.W. Ahmad and M. Furqan. 2014. Growth Performance and Nutrient digestibility of *Cirrhinus mrigala* Fingerlings Fed on Soybean Meal-based Diet Supplemented by Phytase. Int. J. Biosci. 5: 212-221 (**Universal IF 0.553**).
- Hussain, S.M., T. Hameed, M. Afzal, F. Jabeen, M.S. Mubarik, M.A. Chaudary, S.Z.H. Shah, S. Ahmad, M.Z.H. Arsalan, D. Riaz, N. Tahir, F. Amber, **M.M. Shahzad** and T.A.A. Khichi. 2014. Effects of phytase supplementation on mineral digestibility in *Cirrhinus mrigala* fingerlings fed on sunflower meal-based diets. Int. J. Biosci. 5: 173-181 (**ISI IF 0.524**).
- Hussain S.M., N. Ahmad, F. Jabeen, A. Javid, N. Aslam, M. Hussain, S. Ahmad, M.Z.H. Arsalan, D. Riaz and **M.M. Shahzad**. 2015. Effect of Citric acid and Phytase Supplementation on Nutrients Digestibility of *Cirrhinus mrigala* Fingerlings Fed on Corn Gluten (30%) Meal based Diets. Int. J. Biosci. 6(7): 82-91. (**Universal IF 0.459**)
- Hussain, S.M., **M.M. Shahzad**, M. Afzal, A. Javid, M.S. Mubarik, S. Ahmad, M. Hussain, S.Z.H. Shah, M.Z. Arsalan, R. Manzoor and D. Riaz. 2016. Efficacy of phytase enzyme for increasing mineral digestibility of *Cirrhinus mrigala* fingerlings fed on soybean meal-based diet. Pak. J. Zool: 47(6): 1807-1816. (**IF 0.404**).
- Hussain, S.M., S. Ahmad, **M.M. Shahzad**, M.Z.H. Arsalan, D. Riaz, N. Ahmad, S. Tabassum and A.W. Ahmad. 2016. Mineral digestibility of *Labeo rohita* fingerlings fed on cottonseed meal based diets supplemented with citric acid and phytase enzyme. Int. J. Bio-Sci., 8(2):25-35. (**Universal IF 0.459**).

- **Shahzad, M.M.,** S. M. Hussain, F. Jabeen, A.I. Hussain, M. Z. H. Arsalan, N. Ahmad, M.M.H. Rehan, D. Riaz. 2016. Carcass composition and hematological study of *Catla catla* fingerlings fed on phytase supplemented *Moringa oleifera* leaf meal (MOLM) based diet. J. Biodi. Env. Sci. 9 (1), 57-68.
- Akram, Z., M. Afzal, S.Z.H. Shah, M. Fatima, K. Akram, S. M. Hussain and **M. M. Shahzad**. 2016. Role of citric acid and phytase supplementation in improving trace mineral retention in rohu (*Labeo rohita*) juveniles fed soybean meal based diet. Biologia. 62 (1), 87-93.
- Asrar, M., S.M. Hussain, S. Tabassum, A.I. Hussain, N. Aslam, M. Arshad, **M.M. Shahzad**, M. Hussain, M. Z. H. Arsalan and D. Riaz. 2016. Effect of citric acid supplementation on growth parameters of *Cirrhinus mrigala* fingerlings fed canola meal based test diets. J. Biodi. Env. Sci. 9 (1), 381-389.
- Arsalan, M.Z., S.M. Hussain, M. Asrar, H. Anwar, M.M. Rehan, **M.M. Shahzad**, D. Riaz, N. Ahmad and N. Wahab. 2016. Effects of *Moringa oleifera* leaf meal (MOLM) based diets on carcass composition and Haematology of *Labeo rohita* fingerlings. J. Bio. & Env. Sci., 9: 214-223.
- **M.M. Shahzad**, S.M. Hussain, F. Jabeen, A. I. Hussain, S. Ahmad, A. Ashraf and M. Z. H. Arsalan. 2017. Effect of phytase supplementation on mineral digestibility to *Catla catla* fingerlings fed *Moringa oleifera* leaf meal based test diets. Punjab Uni. J. Zoo. 32(1): 065-073.
- Hussain, S.M., **M.M. Shahzad**, N. Aslam, A. Javid, A.I. Hussain, M. Hussain, M.Z.H. Arsalan. 2016. Use of phytase at graded levels for improving nutrient digestibility, growth and hematology of *Catla catla* fingerlings fed MOSM based diet. Indian J. Fisheries. 64(2): 48-57. **(IF 0.251)**
- Hussain, S.M., N. Ahmad, **M.M., Shahzad**, A. Javid, M. Hussain and M.Z.H. Arsalan. 2017. Efficacy of phytase enzyme and citric acid on growth performance, nutrients and mineral digestibility of *Cirrhinus mrigala* fingerlings fed guar meal-based diet. Iranian J. Fish. Sci. Accepted for publication **(IF 0.393)**.
- Hussain, M., S.M. Hussain, R. Iqbal, A. Javid, **M.M. Shahzad** and M.Z.H. Arsalan. 2017. Effect of citric acid acidified *Moringa oleifera* seed meal based diet on nutrients digestibility and growth performance of *Cirrhinus mrigala* fingerlings. Int. J. Agric. Biology, 19: 719-725 **(IF 0.758)**.
- Hussain, S.M., T. Hameed, M. Afzal, A. Javid, N. Aslam, S. Z. H. Shah, M. Hussain, M.Z.H. Arsalan and **M. M. Shahzad**. 2017. Growth performance and nutrient digestibility of *Cirrhinus mrigala* fingerlings fed on sunflower meal based diet supplemented with phytase. Pak. J. Zoology, 49(5), 1713-1724 **(IF 0.491)**.
- **Shahzad, M.M.,** S.M. Hussain, A. Javid and M. Hussain. 2018. Role of phytase supplementation in improving growth parameters and mineral digestibility of *Catla catla* fingerlings fed moringa by-products based test diet. Turkish J. Fish. Aqua. Sci., 18, 557-566 **(IF 0.566)**

- Hussain, S.M., N. Ahmad, A. Javid, **M.M. Shahzad**, M.Z.H. Arsalan. 2018. Effects of phytase and citric acid supplemented corn gluten (30%) meal based diets on the mineral digestibility of *Cirrhinus mrigala* fingerlings. Turkish J. Fish. Aqua. Sci., 18, 501-507 (**0.566 IF**)
- **Shahzad, M.M.**, I. Mustafa , S.M., Hussain, M. Asrar, S.Z.H. Shah, Furqan, M., M.Z.H. Arsalan and W, Ahmed. 2017. Effects of abiotic factors on population dynamics of fruit fly (*Bactrocera dorsalis*; hendel) larvae and pupae on citrus and guava fruits in Sargodha Pakistan. Pak. Ent., 39(2), 45-51.
- Hussain, S.M., Aslam, N., Javid, A., Liaqat, S., **Shahzad, M.M.**, Arsalan M.Z.H. and Khalid, A., 2018. Efficacy of probiotics supplementation on mineral digestibility, haematological parameters and carcass composition of *Oreochromis niloticus* fingerlings fed canola meal based diets. Pak. J. Zool., 50(5), 1825-1834 (**0.547 IF**).
- Hussain, S.M., M.Z.H. Arsalan, A. Javid, A.I. Hussain, N. Aslam, Q. Ali, M. Hussain, M.M. Rehan, **M.M. Shahzad**, A. Khalid and D. Riaz. 2018. Effects of varying levels of *Moringa oleifera* leaf meal (MOLM) based diets on growth performance and nutrient digestibility of *Labeo rohita* fingerlings. Pak. J. Zool., 50(5), 1815-1823 (**0.547 IF**).
- **Shahzad, M.M.**, S.M. Hussain, F. Jabeen, A.I. Hussain, A. Javid, M. Asrar and M.Z.H. Arsalan. 2018. Improvement in mineral digestibility and whole body composition of *Catla catla* fingerlings fed phytase supplemented MOSM based diet. Pak. J. Zool., 50(5), 1909-1920 (**0.547 IF**).
- Hussain, M., S.M. Hussain, R. Iqbal, A. Javid, **M.M. Shahzad** and M.Z.H Arsalan. 2018. Hematological indices, nutrient digestibility and growth performance of *Catla catla* fingerlings fed citric acid supplemented *Moringa oleifera* leaf meal based diet. Pak. J. Zool., **Accepted (0.547 IF)**

SUBMITTED PAPERS

1. Hussain, M., S.M. Hussain, R. Iqbal, S.Z.H. Shah, **M.M. Shahzad**, Muhammad Zubair ul Hassan Arsalan. 2018. Effect of citric acid acidified *Moringa oleifera* seed meal based diet on minerals absorption, carcass composition and hematological indices of *Cirrhinus mrigala* fingerlings. Under Review Sains Malaysiana (**0.547 IF**).
2. Hussain, M., S.M. Hussain, R. Iqbal, N. Aslam, A. Javid, **M.M. Shahzad**, 2018. Supplementation effect of citric acid to *Moringa oleifera* seed meal based diets on growth performance, nutrient digestibility and hematology of *Labeo rohita* fingerlings. Under Review Iranian Journal of Fisheries Sciences. A-10-1162-5 (**IF 0.285**).
3. Hussain S.M., S. Liaqat, S. Ali, Q. Ali, **M.M. Shahzad**. 2018. Effects of probiotics on growth performance and nutrient digestibility of *Oreochromis niloticus* fingerlings fed canola meal based diet. Under Review in Iranian Journal of Fisheries Sciences. A-10-1162-4 (**IF 0.285**).
4. Hussain, S.M. M., Bashir and **M.M. Shahzad**, M.Z.H. Arsalan and M.A. Khalid 2018. Efficacy of probiotics supplementation on carcass composition and hematological parameters of *Cyprinus carpio* fingerlings fed corn gluten meal based diets. Under Review in Acta Ichthyologica Et Piscatoria. AIEP-02471-2018-01 (**IF 0.670**).

5. Hussain, S.M., H. Gohar, A. Rasul, **M.M. Shahzad**, M. Ali, M. Hussain. 2018. Effect of polyphenols supplemented canola meal based diet on growth performance, nutrient digestibility and antioxidant activity of *Cyprinus carpio* fingerlings. Under Review Turkish Journal of Fisheries and Aquatic Sciences, TRJFAS-11455 (**IF 0.484**).
6. **Shahzad, M.M.**, S.M. Hussain, A. Chaudhary, A. Javid, M. Hussain, S.Z.H. Shah and A.M. Akram. 2018. Improvement in nutrient digestibility and growth performance of *Catla catla* fingerlings using phytase in *moringaoleifera* leaf meal based diet. Under Review Pak. J. Zool., Manuscript # MH20170102060154 (**0.491 IF**).
7. Hussain, S.M., N. Ahmad, M. Fakhar-e-Alam, A. Javid, **M.M. Shahzad**, H. Azmat. 2018. Effects of Se nanoparticles supplementation on hematological parameters, nutrient digestibility and growth performance of *Labeo rohita* fingerlings fed sunflower meal based diets. Biological Trace Element Research. (**IF 2.361**).
8. Akram, A.M., H. Kausar, A. Chaudhary, **M.M. Shahzad**, A.M. Khalid, M.W. Akhtar, M.F. Sabar, N. Sajid, N. Anazi, A. Aleem and Z. Iqbal. 2018. Detection of Exon 12 and 14 mutation in Janus Kinase 2 Gene including a novel mutant in V617F negative polycythemia vera patients from Pakistan. Journal of Cancer. (**3.249 IF**).
9. Hussain, M., S.M. Hussain, R. Iqbal, S.Z.H. Shah, **M.M. Shahzad**. 2018. Impact of citric acid supplementation to *Moringa oleifera* leaf meal based diets on nutrient digestibility, growth performance and hematological indices of *Labeo rohita* fingerlings. Aquaculture Nutrition. ID ANU-18-156. (**2.078 IF**).
10. Hussain, M., S.M. Hussain, R. Iqbal, **M.M. Shahzad**, A. Javid. M.Z.H. Arsalan. 2018. Effect of citric acid acidified *Moringa oleifera* seed meal based diet on minerals absorption, carcass composition and hematological indices of *Cirrhinus mrigala* fingerlings. Sains Malaysiana. ID: 24671. (**0.47 IF**).

SUBMITTED ABSTRACTS AND PRESENTATIONS

45 abstracts were submitted in different (National and International) conferences and symposiums.

29 papers were presented in (National and International) seminars and symposiums

New Courses Developed in University of Education Lahore:

1. Aquaculture Development (ZOOL5156)
2. Fish Nutrition (ZOOL5157)
3. Fish feed and Health (ZOOL5158)
4. Fish Requirements (ZOOL5133)

TRAINING/SEMINARS/WORKSHOPS:

Sr. #	Trainings/Seminars/Workshops	Year	Institution/Organization
1.	31 st Pakistan Congress of Zoology (International)	19-21 April 2011	Zoological Society of Pakistan

2.	Promoting trade for Fisheries products in Pakistan: Biological, Technological and marketing considerations	12 Jan 2012	Department of Zoology, Wildlife and Fisheries, GC University, Faisalabad
3.	Training course “Sustainable Wetlands Management”	27 th Feb 1 st Mar 2012	Department of Wildlife and Fisheries, Government College University
4.	Conference on "Developing strategies to monitor Indus River Pollution in Mianwali region of Pakistan by using fish as a potential bio-indicator”	11 th July 2012	Department of Zoology, Wildlife and Fisheries, GC University, Faisalabad
5.	2012 Flower exhibition	29, march 2012	Department of Environmental Sciences, GC University, Faisalabad
6.	Green Industry green Pakistan Poster competition	16, August 2012	Government of Pakistan Ministry of Industries
7.	Workshop on “Water Pollution and its Mitigation”	19 th -20 th Dec 2012	Department of Zoology, Wildlife and Fisheries, GC University, Faisalabad
8.	Management of open water Fisheries in Pakistan, Issues and open Options held at Chashma lake, District Mianwali	28, April 2012	Department of Fisheries Punjab Pakistan
9.	New horizons and recent advances in Chemical and Biological Advances	14 th Feb 2013	Department of Applied Chemistry, GC University, Faisalabad
10.	33 rd Pakistan congress of Zoology (International)	2-4 April 2013	Pakistan Museum of Natural History (PSF) and PMAS Agriculture University, Rawalpindi
11.	One day conference on International Day on Biological diversity; Water and Biodiversity	22 May 2013	Department of Zoology, Wildlife and Fisheries, GC University, Faisalabad
12.	Seminar on Management of Diabetes Mellitus	28 th May 2013	Department of Physiology, Government College University, Faisalabad
13.	3 rd International Conference on “Functional Foods and Nutraceuticals”	4-5 th Dec 2013	Department of Food Science, Nutrition and Home Economics, GC University, Faisalabad
14.	1 st International Conference on Applied Chemical, Biological and Aquatic Sciences	18-20 Feb 2014	Department of Applied Chemistry & Biochemistry, Department of Bioinformatics and Biotechnology, Department of Zoology, Wildlife & Fisheries, GC University, Faisalabad
15.	34 th Pakistan Congress of Zoology (International)	25-27 Feb 2014	Bahauddin Zakariya University, Multan, Pakistan
16.	1 st National Paleontology Seminar	4-5 Dec 2014	Department of Zoology, Wildlife & Fisheries, GC University, Faisalabad
17.	35 th Pakistan Congress of Zoology (International)	1-4 th Mar 2015	Centre of Excellence in Marine Biology, University of Karachi, Karachi
18.	Seminar on Biodiversity offsetting for Reservoir Fisheries	2 nd April 2015	Department of Punjab Fisheries, Chashma Lake, District Mianwali
19.	Two days 2 nd National Paleontology Seminar	3-4 Dec 2015	Department of Zoology, GC University, Faisalabad
20.	Two Days International Seminar and Workshop on Fish Farming Practices in	15-16 Dec 2015	Department of Zoology, GC University, Faisalabad

	Punjab, Pakistan		
21.	5 th International Fisheries Symposium “Fisheries, Trade and Investment Opportunities”	24- 25 th Feb 2016	Department of Fisheries, Punjab, Pakistan
22.	International Conference on “Major Environmental Constraints to Plants: Assessment and Reclamations”	28-30 Mar 2016	Department of Botany, GC University, Faisalabad
23.	One day seminar on “ Climate warning impacts on Fish Biodiversity”	26 th April 2016	Fish Biodiversity Hatchery, Chashma Lake, District Mianwali, Department of Punjab Fisheries,
24.	3 rd international conference on Global Environmental changes	21-22 march, 2016	Department of Environmental Sciences and Engineering, GC University, Faisalabad
25.	International Seminar on recent trends and techniques to evaluate aquatic toxicity	21 Dec 2016	Department of Zoology, GC University, Faisalabad
26.	Two days 3 rd National Paleontology Seminar	3-4 Dec 2016	Department of Zoology, GC University, Faisalabad
27.	One day “International seminar on recent trends and techniques to evaluate aquatic toxicity”	21 Dec 2016	Department of Zoology, GC University, Faisalabad
28.	37 th Pakistan Congress of Zoology (International)	28 th Feb-2 nd Mar 2017	Department of Zoology, GC University, Faisalabad
29.	6 th International Fisheries Symposium and Expo “Innovative and Sustainable Aquaculture for Blue Revolution”	8- 9 th Feb 2017	Department of Fisheries & Aquaculture UVAS, Lahore
30.	1st international conference on emerging trends in zoology (1 st ICETZ 2017)	8-9 Dec 2017	Department of Zoology, University of Sargodha, Sargodha

DUTIES/ SERVICES

1.	Arranged Annual dinner 2013 ceremony	28 April, 2013	Department of Zoology, GC University, Faisalabad
2.	Arranged Annual dinner 2014 ceremony	15 April, 2014	Department of Zoology, GC University, Faisalabad
3.	Arranged Annual dinner 2015 ceremony	18 May, 2015	Department of Zoology, GC University, Faisalabad
4.	National Seminar on Nano-Material for optoelectronic Applications	3 June, 2015	Department of Physics, GC University, Faisalabad
5.	Organized World International Fisheries Day	21st Nov 2015	Department of Zoology, GC University, Faisalabad
6.	Arranged Annual dinner 2016 ceremony	12 May, 2016	Department of Zoology, GC University, Faisalabad
7.	Organized World International Fisheries Day	21st Nov 2016	Department of Zoology, GC University, Faisalabad
8.	Member of arrangement committee International Zoological Congress GUCF 2017	28 th Feb-2 nd March 2017	Department of Zoology, GC University, Faisalabad

PROFESSIONAL SKILLS

- Have skills in operating UV/VIS Spectrophotometer UV 2001
- In operating Extruder machine for making floating pellets in fish diets
- Micro Kjeldahl Apparatus
- Soxtec HT2 1045 System
- Oxygen Bomb Calorimeter

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- The Zoological Society, GCUF
- Zoological Society of Pakistan
- Zoological Society, UAF, Pakistan
- Fisheries Society Pakistan
- Zoological Society, UVAS, Lahore, Pakistan

REFERENCES:

- **Dr. Syed Makhdoom Hussain**
Assistant Professor
Department of Zoology
Government College University Faisalabad, Faisalabad, Pakistan.
Mob # 92-322-5595618, Email: drmakhdoom90@gmail.com
- **Prof. Dr. Muhammad Afzal**
Chairman / Professor
Department of Zoology, Wildlife & Fisheries,
University of Agriculture, Faisalabad, Pakistan.
Tel # 92-41-9200198, Mob # 92-300-7975537, Email: afzal160@yahoo.com
- **Dr. Abdullah Ijaz Hussain**
Associate Professor
Department of Chemistry,
Government College University, Faisalabad, Pakistan
Phone # +92-41-9203171, Mob # 92-300-7631058 Email: ijazabdullah@yahoo.com