



Dr. Basharat Ali

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Candidate with a Doctorate in Zoology and NET JRF, GATE qualified in life science. Skillful in the fields of Fish identification, Culture, Ichthyofaunal study, and Fish nutrition. A motivated, analytical scientist with tremendous leadership abilities dedicated to study fish nutritional requirements and driving sustainable aquaculture practices. Working in the field of fish nutrition and sustainable aquaculture development from the last 6 years.

Professional Experience

Assistant Professor (Contractual)

University of Ladakh | July 2023 – still working

Working as Assistant Professor in the Department of Zoology, University of Ladakh from July 2023. Teaching the masters students and carrying out research in the domain of fish diversity and distribution studies.

District Program Manager-Fisheries

United Nations Development Program | January 2023 - June 2023

Worked as District Program Manager-Fisheries at UNDP under the project OIIPCRA funded by world bank from January 2023. As a District Program Manager, I worked closely with the local fish farmers, understanding their unique challenges, and co-designing interventions that addressed their specific needs for implementation of climate resilient and sustainable aquaculture strategies.

Education

Ph.D. in Zoology

Panjab University at Chandigarh | April 2016 - October 2022

During my PhD research I primarily focused on defining the dietary protein requirement in common carp which is a commercially important fish. My study also focused on using cost-effective herbal feed additives in aquaculture to enhance growth and health in fish.

MSc in Zoology Nagpur University at Nagpur | August 2012 - December 2014

BSc in Science Kashmir University at Srinagar | 2009 - 2012

GATE in Life Science | March 2016 | 2024 |

NET-JRF in Life Science UGC-CSIR at New Delhi | September 2015

Research area / Interest

- Primarily interested in studying the nutritional requirement of commercially important fish and important indigenous fish species.
 - Use of herbal supplements as a feed additive to enhance growth and health in fish.
 - Looking for potential cost effective alternative natural sources of dietary protein to replace fishmeal in aquafeeds.
 - To study the local ichthyofauna of hill streams in Ladakh.
 - To study the distribution pattern and conservation status of fish in Indus River.
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Publications

Research papers

1. **Basharat Ali**, Chhomo Thayes, Sidharth Chauhan, Mohini Thakur & Yogesh Kumar Rawal (2025). Effect of dietary Apricot Kernel Extract (AKE) on growth performance, digestive enzyme activity, biochemical profile, intestinal histomorphometry and *Aeromonas hydrophila* resistance in common carp. *Agricultural Research*, 1-13. <https://doi.org/10.1007/s40003-024-00836-1> IF: 1.5
2. **Basharat Ali**, Y. K. Rawal, O Dhillon, C Thayes & Sidharth (2024). Dietary impact of Alfalfa on growth performance, biochemical profile and resistance against *Aeromonas hydrophila* in fingerlings of common carp. *Fisheries Science*, 90, 453-465. <https://doi.org/10.1007/s12562-024-01757-2> IF: 1.8
3. Sidharth Chahuhan, Chommo Thayes, **Basharat Ali**, Yogesh K Rawal (2024). Evaluation of Himalayan nettle (*Urtica ardens*) extract meal in Common Carp (*Cyprinus carpio*) Feed: Impact on Growth Performance, Digestive Enzyme Activity and Antioxidant Capacity. *Aquaculture Reports*, 36, 102142. <https://doi.org/10.1016/j.aqrep.2024.102142> IF: 3.2
4. **Basharat Ali** & Yogesh K Rawal (2022). Evaluation of optimum dietary protein requirement for maximum growth of common carp (*Cyprinus carpio*) fingerlings. *Aquaculture Research*, 53(17), 5915-5924. <https://doi.org/10.1111/are.16059> IF: 1.9
5. **Basharat Ali**, Rawal YK & Dhillon O (2022). Effect of dietary *Medicago sativa* extract on hepato-renal indicators, intestinal mucosal morphology and serum bactericidal activity in *Cyprinus carpio* fingerlings. *Egyptian Journal of Aquatic Biology and Fisheries*, 26(4), 1421 – 1433. <https://dx.doi.org/10.21608/ejabf.2022.257174> IF: 1.08
6. **Basharat Ali**, Yogesh Kumar Rawal, Sidharth and Chhomo Thayes (2022). Nutritional composition, phytochemical screening, antioxidant, GC-MS, and FTIR analysis of methanolic extract of apricot, *Prunus armeniaca* kernel from Ladakh, India. *Arabian Journal of Medicinal and Aromatic Plants*, 8(3), 149-169. <https://doi.org/10.48347/IMIST.PRSM/ajmap-v8i3.33827>
7. **Basharat Ali**, Yogesh K Rawal, Feroz Ahmad, Ahmad Ali (2021). Phytochemistry, GC-MS, and FTIR analysis of ethanolic extract of alfalfa (*Medicago sativa*) leaves from Cold Desert Ladakh, India. *International Journal of Botany Studies*, 6(6), 241-246.
8. Thayes Chhomo, Chauhan Sidharth, **Ali Basharat** and Rawal, Y. K. (2024). Ashwagandha's (*Withania somnifera*) potential effects on growth, intestinal histomorphology, and antioxidant enzyme activity in fingerlings of Catla catla (Hamilton, 1822). *Environment Conservation Journal*, 25(3). <https://doi.org/10.36953/ECJ.27822846>

Book chapters and conference proceedings

1. **Basharat Ali** & Yogesh Kumar Rawal 2021. Effect of alfalfa (*Medicago sativa*) ethanolic extract on growth performance, health status, gut morphology and disease resistance in common carp (*Cyprinus carpio* L.) fingerlings. Abstract book (ICFAS 6 & AFSSRN F1).
2. **Basharat Ali** & Y. K. Rawal 2021. *Besides fish growth: does the varying dietary protein and source effects the holding water quality*. Multi-Disciplinary Approaches for

Development of Agriculture and Allied Sectors in Global Scenario, ISBN: 978-93-92403-14-9. 138-147.

3. **Basharat Ali** & Y. K. Rawal 2021. Evaluating the effect of Alfalfa (*Medicago sativa*) extract on growth, digestive enzyme activity, body composition and gut morphology of common carp (*Cyprinus carpio* L.) fingerlings. Abstract book FSB 2021. Faculty of Fisheries, Bangladesh Agricultural University, 56.

Important Conferences and training programs

- **Joint Organizing Secretary** at National Conference on *Emerging Trends and Techniques in Forensic Investigations* at University of Ladakh from 29-30 July 2024.
 - **Organizing secretary** at *National Immunization Day* event at University of Ladakh on 16 March 2024.
 - Participated in National Workshop on **Advances in Fish Systematic** (AFS) at FBRC ZSI Hyderabad organized by Zoological survey of India and ICAR-National Bureau of Fish Genetic Resource from 18-19 January 2024.
 - **Organizing secretary** at National Workshop cum Conference on *Biodiversity and Conservation in the Himalayan Region* at University of Ladakh from 25-27 Sep. 2023.
 - Presented a paper entitled “*Evaluating the effect of alfalfa (M. sativa) on growth, digestive enzyme activity, body composition and gut morphology of common carp*” in the 2nd biennial conference of Fisheries Society of Bangladesh on 25-26 December, 2021.
 - Presented a paper entitled “*Besides fish growth: Does the varying dietary protein and sources effects the holding water quality*” in ICABLS-2021, organized by Vidya Kutir Foundation, New Delhi, on 25-26 September, 2021.
 - Presented a paper entitled “*Phytochemical screening, GC-MS, and FTIR analysis of methanolic extract of Apricot (Prunus armeniaca) kernel from Kargil*” in IMCRTESM organized by Maratha Vidya Prasarak Samaj's (KTHM) College, Nashik, (MS), India, Department of Environmental Science & UGC-STRIDE Cell in Collaboration with Brazil Chapter - International Youth Society, Australia, on 6th – 7th August, 2021.
 - Presented a poster in National conference **ZOOCON-2018** at Panjab University Chandigarh from March 21-22 2018.
 - Presented a paper in international conference **ICRRISME-2018** organized by London School of Management in collaboration with Panjab University Chandigarh from April 4-6 2018.
 - Participated in a **40 days summer training program** in electron microscopy organized by AIIMS New Delhi from May 15- June 25 2018.
 - Presented a poster and got an appreciation certificate in National Seminar on “Strategies, Innovations and Sustainable management for enhancing Fisheries and Aquaculture” at ICAR-DCFR Bhimtal from September 22-24 2017.
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