

M. ASHIQ UR RAHMAN, M. Sc., Ph.D.

ashique.md@gmail.com

+91 8903443443 (mobile)

PERSONAL SUMMARY

A highly motivated biologist who is able to find new ways and methods in various areas of biology. Ambitious and looking forward to play a key role and adding significant value to the business. Experience of teaching and training, environmental impact assessments, biodiversity, marine offshore activities, water chemistry, internal audits, implementing environmental management and animal research practices to produce tangible results which could be made.



AREAS OF EXPERTISE

Aquaculture, Biodiversity, Coastal Ecology, Benthic studies, Environment, Fisheries, Molecular biology, Entomology, Teaching and Research & Development.

ACADEMIC PROFILE

Degree	Specialization	University/ College/ School	Year of Passout	Grade
Ph.D	Marine Biology / Zoology	Annamalai University	2009-2014	1 st class
M.Sc	Zoology	Madras Christian College	2007- 2009	1 st class (69%) GPA-3.5
B.Sc	Zoology	Hajee Karutha Rowther Howdia College	2004- 2007	1 st class (67%) GPA-3.5
H.Sc	Life Science	Nagamani Ammal Memorial Matriculation Higher Secondary School	2003- 2004	1 st class (78%) GPA-3.5
SSLC	-	Nagamani Ammal Memorial Matriculation Higher Secondary School	2001- 2002	1 st class (71%) GPA-3.5

RESEARCH PUBLICATIONS

- Mohamed Meeran, M., Joseph Antony Jerald, I., Ajmal Khan, S., Lyla, P.S. and **Ashiq Ur Rahman, M.** 2011. Distribution of heavy metal concentration in intertidal sediments from Thondi coast (Palk Bay), Southeast coast of India. *International Journal of Current Research*, Vol. 2, Issue, 1, pp.163-169.
- Mohamed Meeran, M., Joseph Antony Jerald, I., Ajmal Khan, S., Lyla, P.S. and **Ashiq Ur Rahman, M.** 2011. Seasonal variations of physico-chemical properties off Thondi coast (Palk Bay), Southeast coast of India. *International Journal of Current Research*, Vol. 2, Issue, 1, pp.170-177.

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- P. Mohanchander, A. Daniel Reegan, **M. Ashiq Ur Rahman** and R. Raveen. 2013. Effect of hadda beetle, *Epilachna vigintioctopunctata* Fab. (Coleoptera: Coccinellidae) infestation on eggplant leaf (*Solanum melongena* L.) and biocontrol potential of essential oil formulations. *Pakistan Journal of Biological Sciences*, Vol. 16, Issue, 19, pp.991-997.
- S. Balamurugan, B. Deivasigamani, S. Kumaran, M. Sakthivel, G. Edward and **M. Ashiq Ur Rahman**. 2013. Length-weight relationship, age and growth of wild catfish *Arius arius* (Hamilton, 1822) in Parangipettai east coast of Tamil Nadu. *Thalassas (Springer)*, Vol. 29, Issue, 1, pp.17-23.
- **M. Ashiq Ur Rahman**, P.S. Lyla, S. Ajmal Khan, K. Kadharsha, P. Mohanchander and B. Akbar John. 2013. Length-weight relationship and condition factor of *Liza subviridis* (Valenciennes, 1836) of Parangipettai waters, Southeast coast of India. *Pakistan Journal of Biological Sciences*, Vol. 16, Issue, 7, pp.345-350.
- **M. Ashiq Ur Rahman**, P.S. Lyla, and S. Ajmal Khan. 2013. New distributional record of Tade mullet, *Liza planiceps* in Parangipettai waters. *Seshaiyana*, Vol. 20, Issue, 4, pp.8-9.
- **M. Ashiq Ur Rahman**, S. Ajmal Khan, P. S. Lyla and C. Prasanna Kumar. 2013. DNA barcoding resolves taxonomic ambiguity in Mugilidae of Parangipettai waters (Southeast coast of India). *Turkish Journal of Fisheries and Aquatic Sciences*, Vol. 13: pp.321– 330.
- **M. Ashiq Ur Rahman**, S. Ajmal Khan, P.S. Lyla and J.-D. Durand. 2014. First record of *Osteomugil perusii* (Teleostei: Mugilidae) in Indian waters. *Marine Biodiversity Records (Springer)*, doi:10.1017/S1755267214000177.
- S. Murugan, **M. Ashiq Ur Rahman**, S. Ajmal Khan and P.S. Lyla. 2014. Growth and Population dynamics of Flathead grey mullet, *Mugil cephalus* (Linnaeus, 1758) from Parangipettai waters (Southeast coast of India). *Thalassas (Springer)*, Vol. 30, Issue, 2, pp.47-56.
- **M. Ashiq Ur Rahman**, P. Mohanchander, P.S. Lyla and S. Ajmal Khan. 2015. Reproductive characteristics of Greenback mullet, *Liza subviridis* (Valenciennes, 1836) from Parangipettai waters (Southeast coast of India). *International Journal of Pure and Applied Zoology*, Vol. 3, Issue, 3, pp.240-250.
- **M. Ashiq Ur Rahman**, P. Mohanchander, P.S. Lyla and S. Ajmal Khan. 2016. Growth

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and Stock estimation of Greenback mullet, *Liza subviridis* (Valenciennes, 1836) from Parangipettai waters (Southeast coast of India). *Thalassas* (Springer), doi: 10.1007/s41208-015-0005-3.

- **M. Ashiq Ur Rahman**, P.S. Lyla and S. Ajmal Khan. 2016. Food and Feeding habits of Greenback grey mullet, *Liza subviridis* (Valenciennes, 1836) from Parangipettai waters (Southeast coast of India). *Indian Journal of Fisheries*, Vol. 63, Issue, 4, pp.126-131.
- P. Mohanchander, **M. Ashiq Ur Rahman**, K. Kadharsha, P.S. Lyla, and S. Ajmal Khan. 2017. First report of Harlequin sandperch *Parapercis maculata* (Bloch and Schneider, 1801) (Perciformes: Pinguipedidae) from Parangipettai waters, Southeast coast of India. *Indian Journal of Geo-Marine Sciences*, Vol. 46, Issue, 1, pp.203-205.
- P. Mohanchander, P.S. Lyla, S. Ajmal Khan. **M. Ashiq Ur Rahman** and K. Premdas. 2019. Species delineation of lizardfishes, *Saurida pseudotumbil* (Dutt and Sagar, 1981) and *Saurida tumbil* (Bloch, 1795) using multivariate tools. *Indian Journal of Fisheries*, Vol. 66, Issue, 4, pp.144-150.
- **M. Ashiq Ur Rahman**, C. Prasanna Kumar, P. Mohanchander, G. Manikantan, S. Ajmal Khan, and P.S. Lyla. 2020. All of a Piece: Identification of the Different Life Stages of *Scylla serrata* (Forsskal, 1775) using DNA Barcodes. *Journal of Aquatic Biology and Fisheries*, Vol. 8, pp.12-17.
- P. Mohanchander, **M. Ashiq Ur Rahman**, K. Premdas, P.S. Lyla, and S. Ajmal Khan. 2020. Distribution, Morphology and Genetic validation of *Saurida Pseudotumbil* Dutt & Sagar, 1981 (Teleostei: Synodontidae) from Indian Waters. *Journal of Aquatic Biology and Fisheries*, Vol. 8, pp.18-21.
- M. Mohiadeen Batcha, A. Sajith Ahamed, **M. Ashiq Ur Rahman**, S. Janarthanan, and M. Krishnan. 2023. The in-vitro and in-vivo radio labeling unfolds the vitellogenin protein expression site of *Bombyx mori* L as the ventral perivisceral fat body. *Journal of Asia-Pacific Entomology (Elsevier)*, Vol. 26, Issue, 2, pp.1-7.
- Rahul Rajan, J-D. Durand, Liju Thomas, Arya Sidharthan, **M. Ashiq Ur Rahman**, Bibin Xavier and Rajeev Raghavan. 2023. Barcoding Mulletts (Mugilidae): Genetic Characterization of Exploited Species in Southern Peninsular India. *Diversity*, Vol. 15 Issue, 12:1193. <https://doi.org/10.3390/d15121193>

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- Pavithra Gayathri, J. C. Walter Devaa, S. Ragulraja, Sivaramapillai Muthukumar, **M. Ashiq Ur Rahman** and Ramesh Uthandakalaipandian. 2025. Molecular characterisation of freshwater fishes in rampant fishing sites of three rivers in Tamil Nadu, India. *Current Science*, Vol. 128, Issue, 11: pp.1070

@ International Symposium

- Jean-Dominique Durand, Kang-Ning Shen, Sébastien Trape, Amanda Reno, **M. Ashiq Ur Rahman**, Eric E. Pulis, Chih-Wei Chang, Wayne Knibb, Philippe Borsa (2013) Structure and diversity of the *Mugil cephalus* species complex in the Indo-Pacific Ocean. 9th Indo-Pacific Fish conference, 24-28th June, 2013, Okinawa, Japan
- P. Mohanchander, **M. Ashiq Ur Rahman**, K. Kadhar Sha, S. Ajmal Khan, P.S. Lyla and K. Premdass (2018) Food and feeding habits of *Saurida pseudotumbil* (Dutt and Vidya Sagar, 1981) from Parangipettai waters. International Conference on Innovative Techniques in Agricultural and Biological Sciences for Sustainable Development (ICITABS-2018), 20th December 2018, Sri Vidya Mandir Arts and Science College Katteri - 636 902, Tamil Nadu, India
- A. Sajith Ahamed, M. Mohideen Batcha, **M. Ashiq Ur Rahman** and A. Maajitha Begam (2023) Immune protein Haematopoietic progenitor kinase Interacting Protein (HIP-55) in Mosquito *Aedes aegypti* have role in transforming growth factor B (TGF-B) activity against Dengue virus. ICFCME-2023, Jamal Mohamed College, Tiruchirapalli - 620 020, Tamil Nadu, India

@ National Symposium

- Prasanna Kumar C, Manokaran S, **Ashiq Ur Rahman M**, Lyla P S and Ajmal Khan S (2010) DNA barcoding and phylogeny of polychaetes of South-east coast of India. Symposium on Indian Ocean Marine Living Resources, India
- **M. Ashiq Ur Rahman**, C. Prasanna Kumar, M. Mohamed Meeran, S. Ajmal Khan and P. S. Lyla, 2018. DNA barcodes identifies Egg, Larva and Adult stages of a Crab. UGC sponsored National Seminar on Advances in Animal Science for Sustainable Development, 15th February, 2018, Jamal Mohamed College, Tiruchirapalli-620020, Tamil Nadu, India

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@ Book Chapter

- Mohanchander, P., **M. Ashiq Ur Rahman**, M. Mohidadeen Batcha, K. Arifa Banu, P. Raja and S. Basil Mohamed. 2024. Biofloc based coastal shrimp aquaculture intensification. MANAGE, Hyderabad and Madras Christian College, Chennai. pp.41 ISBN: 978-81-19663-05-7.

TRAININGS/SEMINARS/CONFERENCES/WORKSHOPS UNDERGONE

1. Served as a volunteer in the UNU-INWEH-SACEP sponsored International Training course on “**Mangrove biodiversity and ecosystems**” during 05-19 October 2011 held at CAS in Marine Biology, Annamalai University, Parangipettai, India.
2. Attended “**International Workshop on Fish Taxonomy**” sponsored by MoES, CSIR New Delhi & TNSCST Chennai, during 21st-23rd March, 2012 held at P.G. & Research Dept. of Zoology, Govt. Arts College (Autonomous) Kumbakonam, Tamil Nadu, India.
3. Served as a volunteer in the UNU-INWEH-SACEP sponsored International Training course on “**Mangrove biodiversity and ecosystems**” during November 27th –December 11th, 2012 held at CAS in Marine Biology, Annamalai University, Parangipettai, India.

TITLE AND DESCRIPTION OF THESIS

- **Ph.D.:** Mitochondrial phylogeny and morphometric characterization of grey mullets (Teleostei: Mugilidae) of Parangipettai waters and Biology of *Planiliza subviridis* (Valenciennes, 1836)
- **M.Sc:** Physico-chemical parameters of three fresh water ponds in Uthamapalayam, Theni district, Tamil Nadu – a preliminary assessment.

Research skills	Remarks
DNA isolation	Skills on isolating DNA from animal tissues were sharpened during Ph.D.
Polymerase Chain Reaction	Articulate in hot start, step-up PCRs, PCR reagent optimization, smear reduction, annealing standardization, Taq optimization has been experienced. Ribosomal and functional gene amplifications have been frequently performed.
Gel electrophoresis	Agarose gels for PCR amplicon detection, quantification, elution and amplicon purification has been used. Urea gels for primer purity checks and polyacrylamide gels for protein purification has been experienced.

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DNA sequences published in NCBI-GenBank	More than 110 DNA sequences have been sequenced and submitted in GenBank database (Accession no.: JQ045776- JQ045785; KF010374- KF010482).
On field	Has been a team leader during various cruises in Indian Ocean hence cruise preparations, organizing were experienced. Arranging boats for micro-niche collections, setting up onboard lab for molecular and ecological works were of common practice.
Soft skills	Remarks
Project proposal preparations	Has experienced in project proposal preparations according to various formats of different Indian ministries. Many of the proposals are successfully implemented as projects that are ongoing.
Research guidance	During Ph.D. about 5 M.Sc., dissertations on various aspects on coastal ecology, fisheries & biodiversity was successfully guided which lead to completion of Master degree.
Lab designing & maintenance	Small research lab was designed and successfully operated. Requirements of chemicals and order copy pertaining to running projects was periodically procured and maintained.
Computational skills	Remarks
MS packages, Internet surfing, handling and maintaining PCs	All typing and documentation of data, management and analysis were done during past 5 years. All basics pertaining to system handling was experienced.
Software	Biology: FiSAT II Multiple sequence alignments [DNA & proteins]: CLUSTAL X ver. 4.0, BioEdit, Clustal W. Phylogeny: MEGA ver 5.0. Sequence submission: Sequin (NCBI tool) Statistical: PAST, Excel DNA sequence editor: Chromas Pro, Chromas Lite, Bio-Edit

FELLOWSHIPS

- **Research fellow (RF)** in a project entitled “**Assessment of coastal ecology and marine biodiversity in and around Kudankulam in Tamil Nadu**” sponsored by BRNS, Department of Atomic Energy, Government of India. (July 2011- February 2013).

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- **Junior Research fellow (JRF)** in a project entitled “**Inventorying and Barcoding of crabs of Mangrove Ecosystems (Pitchavaram and Coringa)**” sponsored by Ministry of Earth Sciences (Centre for Marine Living Resources and Ecology (CMLRE)), Government of India. (March 2013- October 2013).

WORK EXPERIENCE

- **Environmental Biologist (Marine Ecology)** in Environmental Management & Monitoring Department, **National Aquaculture Group (NAQUA)**, Al-Lith, Kingdom of Saudi Arabia (November 2013 - May 2017).

Job Responsibilities @ NAQUA

Area	Details
ISO Standards	Implementation of ISO 14001
Environmental Assessments	Participating in Environmental Impact Assessments (EIAs), Marine Ecology, Offshore Environmental Management
Environmental Parameters	Physicochemical parameters of environment & water
Methods & Practices	Development of methods and practices
Field Work	Participation in scientific surveys
Biodiversity	Biodiversity assessment
Marine Resources	Marine resource surveillance and management
Research & Development	Setting and handling R&D trials, feeding trial animals
Animal Studies	Animal growth and health analysis
Training & Outreach	Training and awareness programs

- **Assistant Professor of Zoology**, Post Graduate Department of Zoology, Hajee Karutha Rowther Howdia College (HKRHC), Uthamapalayam, Tamil Nadu, India (August 2017 - Present).

Additional Responsibilities @ HKRHC

- **Academic Counsellor** - The Indira Gandhi National Open University (IGNOU) - (August 2020 to present)

Academic Counsellor Code	ALAPA3218K/001
Regional Center	MADURAI
Study Center Code	2568
Study Center Name	Hajee Karutha Rowther Howdia College
Programme	Certificate In Beekeeping (CIB)

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- **Care Taker (NCC-NAVY)** - (March 2021 to February 2022)
- **Member** - Deeniyath committee (June 2018 to March 2021)
- **Cadet Administrator (NCC-NAVY)** - (June 2019 - February 2021)
- **Department Alumni Representative** - (October 2017 to Present)

Ph.D. GUIDESHIP

- **Recognized Research Supervisor** to guide Ph.D registrants in Zoology of Madurai Kamaraj University, Madurai

Reference No.	S1/Guide Recog/Zoology./2021
ID No.	2136/21
Online Reference No.	MKUFOS45000754
Date	31.08.2021

AS RESOURCE PERSON

- **Chief Guest** in Science Exhibition - Sri Vikasa Vidhyalaya Matric. Hr. Sec. School - Uthamapalayam (28th February 2018)
- **Subject Expert** in Enrichment Content Programme for PG Teachers (Biology) - District Institute of Education and Training (DIET), Government of Tamil Nadu - (10th & 11th December 2018)
- **Chief Guest** in World Ozone Day Awareness Programme - 2023 held at Government Model Higher Secondary School, Uthamapalayam (15th September 2023)

EXPERIENCE AT SEA

- Participated in Cruise no: 275 of Fishery and Oceanographic Research Vessel '**Sagar Sampada**', undertaken to study the benthic productivity, environmental studies and survey of marine mammals (May 2010). The cruise has covered 1603 nautical miles along southeast and southwest coast of India.
- The second cruise (Cruise no: 290) have been undertaken to the benthic productivity, environmental studies and survey of marine mammals along the continental shelf regions of Bay of Bengal. The cruise covered 1500nm in 23days.
- Offshore sampling and environmental management in National Aquaculture Group, Al-Lith, Red Sea since November 2013 – May 2017. Able to swim and **I am Sea worthy**.

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RESEARCH PORTFOLIO

Staff ID	TNMK021T83
Qualification	M.Sc., Ph.D.
Designation	ASSISTANT PROFESSOR OF ZOOLOGY
Guideship Number	2136/21
Specialization	ZOOLOGY
Papers Published	20
Conferences / FDP / Seminars attended	35
h-index	6
i10-index	5
ORCID Link	https://orcid.org/0000-0002-5561-171X
Google Scholar Link	https://scholar.google.com/citations?user=vfwnEmwAAAAJ&hl=en
Scopus ID Link	https://www.scopus.com/authid/detail.uri?authorId=56044614700

PERSONAL PROFILE

Date of Birth	22/09/1987
Sex	Male
Nationality / Religion	Indian / Muslim
Marital status	Married
Languages known	Tamil (Native), Malayalam and English
Permanent Address	S/o (Late) K. Mohamed Younes 16-1-58, Patherkhan palayam Uthamapalayam (Theni district) Pin Code: 625533 Tamil Nadu, India
Address for Communication	Abdul Kalam Nagar, PTR Colony, Uthamapalayam (Theni district) Pin Code: 625533 Tamil Nadu, India

DECLARATION

I hereby declare that all information furnished above is true to the best of my consciousness.

Signature

Place: Uthamapalayam

Date: 01/08/2025

(Ashiq Ur Rahman. M.)