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&

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ResearchGate: <https://www.researchgate.net/profile/Md-Sagir-Ahmed-2>

Summary of Key Experiences and Competencies

- Accomplished senior University Professor with over 28 years of expertise in Zoology, fisheries, Biodiversity and Biotechnology dedicated to advancing sustainable development through natural resource management. Proven track record in teaching and research, with a strong commitment to creating an inclusive learning environment and mentoring future scholars.
- Completed doctoral studies (Ph D) in Japan and post-doctoral research in Germany, UK, and Japan, with advanced research experience in Japan, Germany and UK.
- Principal Investigator/ Co-Investigator of over 25 Research project on Biodiversity, Fisheries, Environmental pollution & toxicity, DNA barcoding, blue economy, etc. funded by BAS-USDA, USAID, DFID, World Bank, PKSf, HEQEP, UGC and GoB
- Recognized for pioneering research in Biodiversity through DNA barcoding, with a robust portfolio of over 1600 barcode sequences representing more than 500 species (Marine and freshwater fishes, Shrimp, Crabs, Snakes, Mollusks, Amphibians etc.) including 56 species of new records from Bangladesh deposited in NCBI GenBank having public access.
- Outstanding research achievements include; i) Isolation and characterization of microcystins (heptapeptide hepatotoxins) from cyanobacterial blooms (*Microcystis aeruginosa*) in eutrophic ponds and lakes in Bangladesh—first reported in the region. ii) Discovery of puffer fish toxins (tetrodotoxin) and its analogs and identification of paralytic shellfish poisoning (PSP) toxins in freshwater puffer fish from Bangladesh (first reported). iii) The role of cyanobacteria blooms in cholera epidemics in Bangladesh.
- Large-scale Project Management: Formulation, implementation, monitoring and evaluation (i.e. Coastal biodiversity assessment, MoEFCC, Padma Bridge Museum project, Faunal survey of Bangladesh, HEQEP, UGC).
- Extensive lab & fieldwork/commissioned research activities including, Biodiversity assessment, Blue economy, Molecular taxonomy, EIA, SLA, participatory/rapid appraisals/learning.
- Scientific Publications; Some 110 refereed publications including Web of Science/ISI and/or Scopus/Scimago-SJR indexed journals and book chapters.
- Extensive training of civil service, Varied other community outreach, capacity development, and volunteering activities.
- Team building, communication and interpersonal skills.
- Senior advisory roles with government agencies; Professional memberships/associations.
- Workshop/seminar organized, facilitation/moderation; Public lectures.

Education, Professional Training and Skills

Academic Qualifications

SUMMARY OF THE EDUCATIONAL ATTAINMENT			
Degree/Diploma/ Certificate	Subject/Specialization	Institution	Year of Passing
Post doc. (2006-2009)	Marine Biology and Oceanography Division	Faculty of Fisheries, Kagoshima University, Japan	-
Ph.D. (1992-1995)	Marine Production and Environmental pollution, Aquatic Resources Sciences	Faculty of Fisheries, Kagoshima University, Japan	Awarded March, 1995
M. Sc. (1986-1987)	Zoology (Fisheries Branch)	Department of Zoology, University of Dhaka.	1987 (held 1991) (First class)
B. Sc. (Hons.) (1983-1986)	Zoology Honors	Department of Zoology, University of Dhaka.	1986 (held 1989) (First class)
HSC	Science Group	Kabi Nazrul Govt. College, Dhaka	1983
SSC	Science Group	Kaitala Jajneswar High School, Brahmanbaria	1981

Citations / h – index

Google Scholar: <https://scholar.google.com/citations?user=alVcGFgAAAAJ&hl=en&oi=ao>,
Citation: 822; h – index: 14, i10 – index: 19

Areas of Expertise (Keywords)

- Working towards SDG Goal 14 (Life below water) & Goal 15 (Life on land)
- Aquatic Biodiversity & Resource Management
- Marine Resources, Blue economy & Ocean literacy
- DNA barcoding of animals, Molecular taxonomy and Biodiversity Assessment
- Environmental pollution & sustainable management
- Ecology, Ecotoxicology, Harmful algal Toxins
- Fish Biology & population dynamics.

Professional Training

Attended more than 45 international and national training programs and workshops to update knowledge, skills and presented papers (Australia, Japan, China, Germany, Denmark, Greece, UK, South Africa, Malaysia, Kazakhstan, Thailand, Cambodia, India, etc).

A. International Training and Workshop

1. **15 December 2023:** Attended in the workshop on Taxonomic Identification of Asian Puffers at Graduate School of Fisheries and Environmental Sciences, Nagasaki University, **Japan**
2. **13 - 17 October 2014:** Training Workshop on Preparing R&D Proposal and Technopreneurship for CIS Countries, Astana, Kazakhstan organized by the International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC) and National Centre of Science and Technology Evaluation (NCSTE), **Astana, Kazakhstan.**
3. **12 – 14 September 2012:** National Training Cum Workshop on “DNA Barcoding of Fish and Marine Life – Molecular Analysis & Bioinformatics Approaches” (FISHCODE – 2012). Department of Marine Science Bharathidasan University, **Tiruchirappalli – 620 024, India.**
4. **22 February to 03 March 2005:** UNESCO Intergovernmental Oceanographic Commission (IOC) Training Course on “Qualitative and quantitative determination of Algal Toxins” at the Alfred Wegener Institute for Polar and Marie Research in **Germany.**

5. **07 July to 02 August 2002:** Training on Fish stock assessment using FiSAT and LFDA at the Center for Environment, Fisheries and Aquaculture Sciences (CEFAS), **Lowestoft, UK.**
6. **27 August to 14 September 2001:** Three weeks long training program on "Strengthening Fisheries Education and Syllabuses for Bangladesh Universities" at the Asian Institute of Technology (AIT), **Bangkok, Thailand**, sponsored by DFID, UK.
7. **01 to 12 March 1999:** UNESCO Intergovernmental Oceanographic Commission (IOC) Training course on Harmful Algal Toxins. Friedrich-Schiller **University of Jena, Germany.**

B. National Training Program and Workshop

Attended and organized over 35 Training and workshops on Biodiversity, Fisheries, Environment, Teaching and statistical analysis in last 24 years:

1. Attended as a resource person in the workshop on Preparing River Health Card on 12 September 2024 organized by the Department of Environment, Ministry of Environment, Forest and Climate Change, Agargaon, Dhaka.
2. Attended as a resource person in the workshop on Kunming-Montreal Global Biodiversity Framework on 10 September 2024 arranged by Ministry of Environment, Forest and Climate Change.
3. Attended the Workshop on 'Training of Effective Teaching Learning and Assessment' on 11-12 June 2024 organized by the Bangladesh Accreditation Council (BAC).
4. Attended as a resource person in the workshop on 'Ocean Literacy include in the school curricula by 2025' on 11 July 2024 arranged by Bangladesh Nation Commission, for UNESCO, Dhaka
5. Attended as a resource person in the workshop on 'Ocean Literacy include in the school curricula by 2025' on 14 May 2024 arranged by Bangladesh Nation Commission, for UNESCO, Dhaka
6. Attended as a resource person in the CIRDAP - BARD 2nd Flagship Training Programme on Regional Integrated Rural Development, Governance, Trade, and Sustainable Development in Asia and the Pacific and delivered lecture on **Bio trade, Biodiversity & genetic resources, Transfer of Technology, and sustainable trade** on 12 November 2023.
7. Two-days technical training workshop on developing CITES Non-Detriment Findings (NDFs) for Appendix-II listed sharks and rays of Bangladesh from 14-15 September 2022, at Hotel Six Seasons, Dhaka Conducted by Wildlife Conservation Society (WCS).
8. Three-days technical training workshop on developing CITES Non-Detriment Findings (NDFs) for Appendix-II listed sharks and rays of Bangladesh from 8-10 February 2022, Marine Fisheries Survey Management Unit, Chattogram, Conducted by Wildlife Conservation Society (WCS).
9. Two-days technical training workshop on Biosafety and Biosecurity from 6-7 January, 2017 arranged by Bangladesh Biosafety and Biosecurity Association (BBBA)
10. Two-days technical training workshop on Biosafety and Biosecurity in Biomedical Research and Diagnostic from 21-22 May, 2016 arranged by Centre for Advanced Research in Sciences, University of Dhaka
11. Twenty hours training course on Fundamentals of GIS using ArcGIS organized by Department of Geography and Environment, University of Dhaka from 20-24 November 2016.
12. IUCN Red List Assessor Training Workshop 14-17 July 2014, BRAC- CDM Rajendrapur, Gazipur. Organized by IUCN Bangladesh Country Office.
13. DNA Barcoding Training Workshop 2-5 March 2014, Department of Zoology, Chittagoang University, Chittagoang, Bangladesh. Funded by USDA.

14. Attended a workshop on Sustainable Livelihood Approach (SLA) FOR Education, Research and Poverty Reduction held at Department of Zoology, University of Dhaka from 12-13 July 2004. Funded by SUFFER Project, DFID-UK.
15. 40 hours training course on Applied Statistics and SPSS conducted by the Institute of Statistical Research and Training (ISRT) from 3-30 June, 2003.
16. Training program on "Model field course demonstration" from 21-26 April, 2002, Parbotipur, Dinajpur, organized by SUFFER project, DFID.
17. Workshop on "Research Proposal writing for National and International funding" from 5-16 April, 2002, Srimongal, organized by SUFFER project, DFID
18. A week-long Training Program on Livelihood Assessment organized by SUFFER project, DFID, from 17-25 March 2002, Sundarban.
19. "Teaching Methodology workshop" jointly organized by DFID and UGC Bangladesh, 24-29 June 2000, Rajendrapur, Bangladesh.
20. Two weeks long Training and Orientation Program organized by the University of Dhaka from 18- 30 September 1999.

Language Proficiency

Bangla: Speaking, reading, writing
 English: Speaking, reading, writing
 Japanese: Speaking; Arabic: Reading.

Summary Record of Employment and Selected other Appointments

Employment History

2011-present : Professor, Department of Zoology, University of Dhaka
 2022-present Adjunct faculty, Department of Marine Fisheries and aquaculture, BSMRMU
 2005-2011 : Associate Professor, Department of Zoology, University of Dhaka
 1999-2005 : Assistant Professor, Department of Zoology, University of Dhaka
 1997-1999 : Lecturer, Department of Zoology, University of Dhaka
 1998-1999 : Part-time Faculty, Department of Aquaculture and Fisheries, University of Dhaka
 2004-2005 : Part-time Faculty, Department of Biochemistry and, Molecular Biology, University of Dhaka
 1994-1995 : Teaching Assistant, Faculty of Fisheries, Kagoshima University, Japan

Key Consultancy Assignments

1. Fisheries Consultant: Padma Multipurpose Bridge Museum, Since March, 2015- June 2024
2. Marine Biodiversity Consultant: "Assessment of Coastal and Marine Biodiversity Resources and Ecosystems to Implement the Blue Economy Action Plan" January- December 2021. Department of Environment, GoB.
3. External peer Reviewer Expert: As a Quality Assurance (QA) Expert to review self-assessment activities and Self-Assessment Report of Zoology Discipline of Jagannath University, Dhaka, June 12-14, 2016. Institutional Quality Assurance Cell (IQAC) of Jagannath University, Dhaka, under the HEQEP (Higher Education Quality Enhancement Project, of World Bank and UGC Bangladesh.

4. External Reviewer Expert: BS and Masters Syllabus and OBE Curriculum of Marine Fisheries and Aquaculture, BSMRMU, Dhaka
5. Technical Review (RAG-Fish-125) of Red List Books under the project entitled “Updating Species Red List of Bangladesh” funded by World Bank. May- October 2015.
6. Sustainable utilization of safe drinking water in southern part of Bangladesh (Khulna, Mongla), HEED Bangladesh and Teknikerbanken & Regito Research Center on Water and Health, Sweden. April – December, 2015.

Conference/Symposium attended as paper presenter

International:

1. Attended and paper presented in the 16th International Symposium 2025 on ““Innovating for a Sustainable Future: Harnessing Science and Technology to Tackle Emerging Challenges” on 23rd February, 2025 at University of Dhaka, Bangladesh jointly organized by the Bangladesh Japan JSPS Alumni Association (BJSPSAA) and Japan Society for the Promotion of Science (JSPS).
2. Attended and paper presented in the 15th International Symposium 2024 on “Digital Transformation for Sustainable Development” on 24th February, 2024 at Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU) Gazipur, Bangladesh jointly organized by the Bangladesh Japan JSPS Alumni Association (BJSPSAA) and Japan Society for the Promotion of Science (JSPS).
3. Attended the International Conference on “Ocean Prosperity: Catalyzing Blue Economy in Bangladesh” on 03 July, 2024 at Bangabandhu International Conference Center (BICC) in Dhaka, Bangladesh. jointly organized by the Bangladesh General Economics Division (GED), Bangladesh Planning Commission, and the Asian Development Bank (ADB).
4. Attended in a seminar on 12 December 2023 at East China Sea Research Institute of Nagasaki University, Kyushu University, **Japan**
5. Attended paper presented in the 8th International Barcode of Life Conference 17-21 June 2019, The NTNU University Museum and the Norwegian Biodiversity Information Centre in collaboration with NorBOL, **Trondheim, Norway**.
6. Attended paper presented in the Annual Conference of the Asian Society of Ichthyologists 30 November- 05 December 2018, Guangxi University, **Nanning, China**.
7. Attended paper presented in the 6th International Barcode of Life Conference 18-21 August 2015, Biodiversity Institute of Ontario, University of Guelph, **Ontario, Canada**.
8. Attended paper presented in the 5th International Barcode of Life Conference 27-31 October 2013, **Kunming, China**.
9. Attended paper presented in the 12th International Conference on Harmful Algal Blooms 04-08 August 2006. **Copenhagen, Denmark**.
10. Attended paper presented in the 11th International Conference on Harmful Algal Blooms 15-19 October 2004. **Cape Town, South Africa**.
11. Attended and paper presented in "The 7th Asian Fisheries Forum" 28 November to 04 December 2004, **Penang, Malaysia**.
12. Attended and paper presented in "The 7th International River Management Symposium" from 31 August to 04 September 2004, **Brisbane, Australia**.
13. Attended and paper presented in "The Second International Symposium on the Management of Large Rivers for Fisheries" from 11-14 February 2003, Phnom Penh, **Kingdom of Cambodia**.
14. The "International Symposium on shared stock management" from 10-12 July 2002, at the Center for Environment, Fisheries and Aquaculture Sciences (CEFAS), **Lowestoft, UK**.

15. The "International Commemorative Symposium, 70th Anniversary of The Japanese Society of Fisheries Science, October 01-05, 2001, Pacifico Convention Plaza **Yokohama, Japan**.
16. The "National Seminar on Conservation of Aquaculture Resources" organized by Department of Life Sciences, Tripura University, **India**, 17-18 March, 2001.
17. Attended and paper presented in the 9th International Conference on Harmful Algal Blooms 7-11 February 2000, Hobart, **Tasmania, Australia**.
18. The 2nd Israel-Japan Aquaculture Symposium 4-6 April 1994, **Kagoshima, Japan**.

Conference/Symposium attended as Session Chair

- i. 22nd Biennial International Conference 2021 on "Ecosystems Conservation for Restoration Biodiversity and Climate Change Mitigation at Bangamatha Sheikh Fazilatunness Mujib Hall, National Museum, Shahabagh on 18 March 2022
- ii. 21st Biennial International Conference 2019 on Conservation of Wetland Biodiversity in Bangladesh at Nabab Nawab Ali Chowdhury Senate Bhaban on 7-8 December 2019
- iii. 5th International Conference on Environmental Aspects of Bangladesh 5-6 September, 2014, University of Dhaka, Dhaka 1000, Bangladesh.
- iv. 2nd International Conference on Green Energy and Technology 5-6 September, 2014, University of Dhaka, Dhaka 1000, Bangladesh.
- v. Conference on Status of Faunal Diversity and Conservation in Bangladesh 17 September 2014, Department of Zoology, University of Dhaka.

National:

- i. The "Teaching Methods Conference" November 10-12, 2001 at Cox's Bazar, organized by SUFER, DFID.
- ii. Attended 23rd Biennial International Conference 2023 on Transformation of Poverty through Improvement of Health and Innovative Utilization of Bio-resources at Nabab Nawab Ali Chowdhury Senate Bhaban on 26 April 2024
- iii. Attended 23rd National Conference 2022 on Biodiversity Conservation: Bangladesh Perspective at Nabab Nawab Ali Chowdhury Senate Bhaban 28 January 2023
- iv. Attended 22nd Biennial International Conference 2021 on "Ecosystems Conservation for Restoration Biodiversity and Climate Change Mitigation at Bangamatha Sheikh Fazilatunnessa Mujib Hall, National Museum, Shahabagh on 18 March 2022
- v. Attended 22nd National Conference 2020 on COVID-19 Challenges; Integrating Human Health, Zoonotic Diseases and Ecosystem Conservation at Virtual on 29 October 2021
- vi. Attended 21st Biennial International Conference 2019 on Conservation of Wetland Biodiversity in Bangladesh at Nabab Nawab Ali Chowdhury Senate Bhaban on 7-8 December 2019
- vii. Attended 21st National Conference 2018 on "Conservation of Animal Habitats for Sustainable Biodiversity" at Bangladesh Shishu Academy on 7-8 December 2018
- viii. Attended 20th Biennial International Conference 2017 on The Blue Economy: Bangladesh Perspective at Bangladesh Shishu Academy on 8-9 December 2017
- ix. Attended 20th National Conference 2016 on Sundarban Biodiversity: Zoological Perspectives at Nabab Nawab Ali Chowdhury Senate Bhaban on 31 December 2016
- x. Attended 19th Biennial International Conference 2015 on Zoonotic Diseases in Bangladesh at Nabab Nawab Ali Chowdhury Senate Bhaban on 05 December 2015
- xi. Attended 19th National Conference 2012 on Education, Research and Job Opportunities for

- Zoologists in Bangladesh: Problems and Prospects at Nabab Nawab Ali Chowdhury Senate Bhaban on 19 April 2014
- xii. Attended 18th Biennial International Conference 2012 on Contribution of Biodiversity to National Economy at Nabab Nawab Ali Chowdhury Senate Bhaban on 22 December 2012
 - xiii. Attended 18th National Conference 2011 on Climate Change Impact on Biodiversity at Jahangirnagar University Savar, Dhaka on 31 December 2011
 - xiv. Besides the mentioned conferences, attended more than 25 National Conferences related to fisheries.

Outreach Training, Capacity Building, and Other Experiences

Training and Coaching

- Attended as an expert member and resource person in the consultation meeting on Ocean Literacy include ocean literacy in the school curriculum by 2025 at 22 February 2024 arranged by Bangladesh Nation Commission, for UNESCO, Dhaka
- Served as a resource person in the training course on **Specimen Collection and Preservation Techniques** under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 28 August to 03 September 2012
- Served as a resource person in the training course on **Techniques of Taxonomic Study** under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 29 September to 05 October 2012
- Served as a resource person in the training course on **Scientific Photography** under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 14-19 March, 2013
- Served as a resource person in the training course on **Geographic Information System and Remote Sensing** under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 22-30 July, 2013
- Served as a resource person in the training course on **Taxidermy and Curation of Museum** under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 26-30 June, 2013
- Served as a resource person in the training course on DNA Barcoding: A Tool for Molecular Taxonomy under Faunal Survey and Enrichment of Facilities for Biodiversity Research Sub-Project Higher Education Quality Enhancement Project, UGC, Bangladesh Department of Zoology, University of Dhaka during 01-04 October, 2013

Public Lectures/Keynote Speeches

Delivered numerous public lectures and keynote speeches (Selected examples)

- ✓ 29-30 November 2023: Delivered lecture on **Fisheries Education & Research in Bangladesh: Current Status, Scope and Opportunities** at Kyushu Nutrition Welfare University, Japan
- ✓ 27 November 2023: Delivered lecture on **Incredible life and livelihoods of fishers at Dublar Char Island, Bangladesh** at International Center for Island Studies, Kagoshima University,

- Japan
- ✓ 12 November 2023: Delivered lecture on **Bio trade, Biodiversity & genetic resources, Transfer of Technology, and sustainable trade** at CIRDAP - BARD 2nd Flagship Training Program.
 - ✓ 10 October 2023: Delivered lecture on **Unraveling the puffer species dilemma based on morphometric and molecular approaches** at Graduate School of Fisheries and Environmental Sciences, Nagasaki University, Japan.
 - ✓ 20th of June 2022: Delivered lecture as a chief guest in a seminar titled "**Know the Horseshoe Crabs, Save the Horseshoe Crabs**" organized by the Bangladesh Oceanographic Research Institute (BORI), Cox's Bazar, Chattogram.
 - ✓ 08 June 2020: Biodiversity conservation and DNA barcoding: Bangladesh perspectives. Dhaka University Nature and Conservation Club (DUNCC)
 - ✓ 14 February 2019: DNA barcoding: challenge and opportunities for biodiversity conservation, SUST

Selected Other Research Engagements (Research Projects)

1. **Title** : Stock assessment of three commercially exploited fish species using the Length-Based Bayesian Biomass (LBB) method from Northeastern Bay of Bengal,
Duration : Bangladesh
Institution : July 2023-June 2024
Funded by : Department of Zoology, University of Dhaka
Position : Ministry of Science and Information & Communication Technology, GoB
Principal Investigator
2. **Title** : Genetic diversity of mangrove associated molluscs of Sundarbans: Insights for conservations and management
Duration : July 2023-June 2024
Institution : Department of Zoology, University of Dhaka
Funded by : UGC, University of Dhaka, Bangladesh
Position : Principal Investigator
3. **Title** : Morphometric and molecular characterization of characterization of mosquito species from different habitats in Gulshan thana area, Dhaka
Duration : July 2023-June 2024
Institution : Department of Zoology, University of Dhaka
Funded by : UGC, University of Dhaka, Bangladesh
Position : Co- Investigator
4. **Title** : Assessment of Coastal and Marine Biodiversity Resources and Ecosystems to Implement the Blue Economy Action Plan
Duration : January 2021- June 2022
Institution : Department of Zoology, University of Dhaka
Funded by : Department of Environment, GoB
Position : Marine Biodiversity Consultant,
5. **Title** : DNA Barcoding of Shrimps, Lobster and Crabs (Crustacea: Decapoda) of Bangladesh: Implication for Conservation and Management
Duration : October 2020- September 2023
Institution : Department of Zoology, University of Dhaka
Funded by : BAS-USDA Endowment program

- Position** : Principal Investigator
6. **Title** : Molecular identification of sea snakes of Bangladesh through DNA barcodes
Duration : July 2021- June 2022
Institution : Department of Zoology, University of Dhaka
Funded by : Ministry of Science and Information & Communication Technology, GoB
Position : Principal Investigator
7. **Title** : Morphological and molecular characterization of hermit crabs (Order Decapoda; Superfamily Paguroidea) from the coastal region of Bangladesh
Duration : July 2021- June 2022
Institution : Department of Zoology, University of Dhaka
Funded by : UGC, University of Dhaka, Bangladesh
Position : Principal Investigator
8. **Title** : DNA Barcoding of mangrove associated gastropod molluscs (Snails and slugs) of Bangladesh
Duration : July 2020- June 2021
Institution : Department of Zoology, University of Dhaka
Funded by : Ministry of Science and Information & Communication Technology, GoB
Position : Principal Investigator
9. **Title** : DNA Barcoding of freshwater fishes of Bangladesh: Implication for Conservation and Management
Duration : April 2017- Sept 2018
Institution : Department of Zoology, University of Dhaka
Funded by : NATP 2, BARC, World Bank, USAID
Position : Principal Investigator
10. **Title** : DNA Barcoding of marine fishes of Bangladesh
Duration : July 2017- June 2019
Institution : Department of Zoology, University of Dhaka
Funded by : Ministry of Education, GoB
Position : Principal Investigator
11. **Title** : Faunal survey and enrichment of facilities for biodiversity research in the Department of Zoology, University of Dhaka. Under the Higher Education and Quality Enhancement Project (HEQEP)
Duration : April 2012 to Dec 2015
Institution : Department of Zoology, University of Dhaka
Funded by : World Bank, UGC
Position : Faculty Researcher
12. **Title** : Diversification of Academic Programs and Improvement in Teaching-Learning at the Department of Zoology, University of Dhaka. Under the Higher Education and Quality Enhancement Project (HEQEP) July 2014 to October 2016
Duration : Quality Enhancement Project (HEQEP) July 2014 to October 2016
Institution : Department of Zoology, University of Dhaka
Funded by : World Bank, UGC
Position : Deputy Sub Project Manager
13. **Title** : DNA barcoding of small indigenous fish species from Tanguar Haor
Duration : July 2014 to June 2016
Institution : Department of Zoology, University of Dhaka

- Funded by** : Ministry of Education, GoB.
Position : Principal Investigator
14. **Title** : Adaptation of Community Enterprise Approaches in Tidal floodplains for Crop-fish Culture – Jhalokathi Model.
Duration : February 2015 to January 2018
Institution : Department of Fisheries (DoF), Department of Zoology, University of Dhaka, & SHISHUK NGO
Funded by : Bangladesh Krishi Govesona Parishad, BARC
Position : Co-Investigator
15. **Title** : Genetic characterization and development of micro satellite marker of Hilsa shad, *Tenuialosa ilisha*
Duration : July 2014 June to 2015
Institution : Department of Zoology, University of Dhaka
Funded by : Ministry of Science & Technology, GoB.
Position : Principal Investigator
16. **Title** : Genetic diversity among different species of hilsa shad (Clupeidae) of three major aquatic environments in Bangladesh
Duration : January 2015 to Dec 2015
Institution : Department of Zoology, University of Dhaka
Funded by : UGC, Bangladesh
Position : Principal Investigator
17. **Title** : Age growth and population dynamics of some selected fish from the Kagoshima Bay, Japan
Duration : May 2006 to November 2009
Institution : Marine Biology and Oceanography Division, Faculty of Fisheries, Kagoshima University, Japan
Funded by : Japan Government
Position : Post doctoral researcher
18. **Title** : The Biological basis of fisheries management in the floodplain River Titas, Brahmanbaria
Duration : July 2001 to June 2003 (2 years)
Institution : Department of Zoology, University of Dhaka and WordIFish Center Bangladesh
Funded by : SUFER Project, DFID, UK and UGC, Bangladesh
Position : Project Co-ordinator (Awardee)
19. **Title** : Development of breeding and rearing techniques of *Channa marulius*
Duration : September 1999 to August 2001 (2 years)
Institution : Department of Zoology, University of Dhaka
Funded by : UGC, Bangladesh
Position : Principal Investigator
20. **Title** : Development of breeding technology of and rearing techniques *Channa punctatus* and *C. striatus*
Duration : February 1998 to June 2001 (2 years 6 months)
Institution : Department of Zoology, University of Dhaka
Funded by : BARC, Dhaka
Position : Co-Investigator

21. **Title** : Quality control of fish and fisheries products
Duration : June 1995- August 1996 (1 year 03 months)
Institution : Expert of F. S. Asia Co. Ltd., Kagoshima, Japan
Position : Fisheries Technical Expert
22. **Title** : Study on fish parasites of *Anabas testudineus*
Duration : May 1990- November 1990 (7 months)
Institution : Department of Zoology, University of Dhaka
Funded by : Ministry of Science & Technology, Bangladesh
Position : Research Assistant
23. **Title** : Studies on Toxins Separated from the Phytoflagellate *Chattonella marina*
Duration : April 1992-March 1995 (3 years)
Institution : Marine Botany & Environmental Sciences Lab., Faculty of Fisheries, Kagoshima University, Japan
Funded by : Heiwa Nakajima Foundation and Nagashima Bunka Foundation, Japan
Position : Ph.D. Research Fellow
24. **Title** : Polyculture of giant Freshwater Prawn *Macrobrachium rosenbergii* with some major carps
Duration : June 1989-May 1990 (1 year)
Institution : Department of Zoology, University of Dhaka
Position : M. Sc. Thesis student

Research Counterparts

Teaches and undertakes research related to environment, natural resources, environmental management, population sciences and planning in Bangladesh, basic zoology and fisheries. Worked with research counterparts from Germany, UK, Denmark, Sweden, Japan, New Zealand and Morocco and has undertaken work for the various donor agencies (World Bank, DFID, UNESCO, IOC, USDA), NGO's, Public and Private Universities, Research Organizations and Government agencies.

Research Degree Supervision (as Supervisor)

1. Ph.D. (University of Dhaka): Genetic diversity, phylogenetic relationship and status of shrimps (Crustacea: Decapoda) of Bangladesh (Sujan Kumar Datta, 2024)
2. Ph.D. (University of Dhaka): Impact of brush and vegetation parks on ichthyofaunal diversity and fish production in Chenadi beel, Shibpur, Narsingdi (Mohammad Masud Molla, 2024)
3. Ph.D. (University of Dhaka): Effectiveness of Community-enterprise approach in promoting crop-fish culture practice in some tidal floodplain areas of Bangladesh (Rowsan Ara Begum, 2022)
4. Ph.D. (University of Dhaka): Genetic diversity among different species of hilsa shad (Clupeidae) of three major aquatic environments in Bangladesh (A.S.M. Sharifur Rahman, 2018)
5. Ph.D. (University of Dhaka): Cyanobacteria bloom dynamics in eutrophic ponds and their toxic effects on *Oreochromis niloticus* and *Hypophthalmichthys molitrix* (Sumaiya Ahmed, 2018)
6. Ph.D. (University of Dhaka): DNA sequence-based approach to the identification of shark and ray species and its implication for the conservation of elasmobranch in the Bay of Bengal (Mysha Mahjabin, Current)

7. Ph.D. (University of Dhaka): Molecular characterization, habitats and spatial distribution of gastropod and bivalve molluscs in Sundarbans (Wahida Haque, Current)
8. Ph.D. Expert Committee Member/ Examiner (21): Six international (India) and more than 15 in different universities of Bangladesh

M. Sc. : Supervised more than 70 MS students for their research work as a part of their degree in Zoology (Fisheries) since 1997.

Professional Affiliations and Membership

- Life Member, Asian Ichthyological Society
- International Society for Harmful Algae (ISSHA)
- International Union for Conservation of Nature (IUCN)
- Member, IUCN, Species Survival Commission (SSC)
- Life Member, Zoological Society of Bangladesh.
- The Japanese Society of Fisheries Sciences
- Life Member, Biodiversity Research Group of Bangladesh (BRGB)
- Life Member National Oceanography and Maritime Institute (NOAMI), Bangladesh

- Life Member, Japanese Universities Alumni Association (JUAAB)
- Life Member, Bangladesh JSPS Alumni Association (BJSPSAA)
- Life Member, Bangladesh Fisheries Forum.

Scholarships, Recognition, Fellowships and Awards

- Japan Society for the Promotion of Science (JSPS) Bridge Fellowships for Research in Japan at the Graduate School of Fisheries and Environmental Sciences, Nagasaki University, 2024
- JSPS Invitational Fellowships for Research in Japan at the Graduate School of Fisheries and Environmental Sciences, Nagasaki University, 2023
- Travel Award sponsored by FAO to attend and paper presented in the 14th International Conference on Harmful Algal Blooms held in Hersonissos, Crete, Greece from 1-5 November 2010.
- ISSHA Travel Award Sponsored by DANIDA
- Travel Award sponsored by FAO to attend and paper presented to 11th International Conference on Harmful Algal Blooms 15-19 October 2004 Cape Town South Africa
- ISSHA Travel Award to attend and presented paper in the International Conference on HAB, Tasmania, Australia
- Heiwa Nakajima Peace Foundation Fellowship, Japan, 1993-1995

- Nakashima Bunka Foundation Scholarship, Japan, 1992
- Dhaka University Talent pole Scholarship, University of Dhaka, 1989

Academic Publications

(Published more than 70 articles in international and national peer reviewed journals)

1. Ahmed, M.S., Islam, N., Antu, D.R., Mahjabin, M., Datta, S.K. and Arakawa, O., 2025. Molecular identification and phylogenetic relationship of Bangladeshi pufferfish based on mitochondrial COI and 16S rRNA genes. *Journal of Agriculture and Food Research*, p.101683.
2. Sehrin, S., Palash, M.A.I., **Ahmed, M.S.**, Quraishi, S.B., Baki, M.A., Amin, M.N. and Begum, A., 2024. Public health risk assessment and possible contamination with heavy metals in Saint Martin's Island, Bay of Bengal. *Journal of Hazardous Materials Advances*, p.100568.

3. Antu, D.R., Jahan, I., Islam, T.T., Mahjabin, M., Datta, S.K., Ahmed, S., **Ahmed, M.S.** 2024. Morphology and DNA barcoding reveal four new species of hermit crab (Crustacea: Decapoda: Anomura) for the fauna of Bangladesh. *Zoology and Ecology* 34(2), 144–153. <https://doi.org/10.35513/21658005.2024.2.8>
4. Datta, S. K., Ahmed, S., & **Ahmed, M. S.** (2024). Geographical range extension of two penaeid shrimp *Penaeus pulchricaudatus* Stebbing, 1914 and *Kishinouyepenaeopsis incisa* (Wang & Liu in Liu & Wang, 1987) in Bangladesh waters. *Dhaka University Journal of Biological Sciences*, 33(2), 111-117. <https://doi.org/10.3329/dujbs.v33i2.75843>
5. Jannat, K. N. E., Datta, S. K., **Ahmed, M. S.**, & Begum, M. (2024). *Culex pipiens* complex with three new Records in Bangladesh: A new challenge to the elimination of Lymphatic filariasis. *Bangladesh Journal of Zoology*, 52(1), 95-110.
6. Haque, W., Enam, S., Islam, M. T., Datta, S. K., & **Ahmed, M. S.** (2024). Morphometric and DNA-based identification of horseshoe crab *Carcinoscorpius rotundicauda* (Latreille, 1802) and *Tachypleus gigas* (Müller, 1785) from Bangladesh coast. *Bioresearch Communications-(BRC)*, 10(02), 1489-1494.
7. **Ahmed, M. S.** , Arfin, N. A., Mahjabin, M., & Datta, S. K. (2024). Proximate Composition and Mineral Content of Edible Cuttlefish (*Sepiella Inermis*), Squid (*Uroteuthis Duvauceli*) and Octopus (*Cistopus Taiwanese*) of Bangladesh. *Bioresearch Communications-(BRC)*, 10(01), 1420-1423.
8. Mitu, F. A., Snigdha, S.S., Surma, A. A., Karim, M. A. and **Ahmed, M. S.** (2023). Gut bacteria of snakeheads of Chinadi Beel, Narsingdi and their antibiogram profile. *Bangladesh J. Bot.* 52(2): 297-306. <https://doi.org/10.3329/bjb.v52i2.67027>
9. Sehrin, S., Kabir, N., Sarker, A., Chowdhury, M., Bakia, M. A. and Ahmed M. S. (2023). Parasite diversity and histopathological changes due to infection on three croakers (*Pennahia anea*, *Panna microdon* and *Johnius argentatus*) of Saint Martin’s Island, Bay of Bengal. *Bioresearch Communications* 9(2): 1297-1304. <https://doi.org/10.3329/brc.v9i2.67081>
10. Mahjabin, M., Tasnim, Z., Datta, S.K., Haque, W. and **Ahmed, M. S.** (2023). DNA barcoding and phylogenetic analysis of some gastropod molluscs (Class-Gastropoda) from three ecological habitats of Bangladesh. *Bioresearch Communications* 9(2): 1305-1309. <https://doi.org/10.3329/brc.v9i2.67082>
11. Arfin, N.A., Barua, A., Datta, S. K., Ahmed, S. and **Ahmed, M. S.** (2023). Genetic Diversity of Cephalopods (Mollusca: Cephalopoda) from Bangladesh Waters Based on COI and 16S rRNA Genes. *Thalassas: An International Journal of Marine Sciences*. <https://doi.org/10.1007/s41208-023-00535-8>
12. **Ahmed, M. S.** , Datta, S. K., Saha, T., Antu, D. R., Barua, A., & Ahmed, S. (2023). New record of slipper lobster *Thenus indicus* Leach, 1816 (Crustacea: Decapoda: Scyllaridae) from Bangladesh waters. *Dhaka University Journal of Biological Sciences*, 32(1), 11-19. <https://doi.org/10.3329/dujbs.v32i1.64186>
13. Antu, D.R., Islam, T.T., Ahmed, M.R., Ahmed, S., Datta, S.K. and Ahmed, M.S. 2023. Diversity of bivalves and gastropods in Sonadia island, Bangladesh. *Bioresearch Communications* 9(1): 1225-1236. <https://doi.org/10.3329/brc.v9i1.63603>
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15. **Ahmed, M. S.** , Barua, A., Datta, S., Saha, T., Antu, D.R. and Ahmed, S. 2022. Characterization of spiny lobsters from Bangladesh waters using morphology, COI and 16S rRNA sequences. *Heliyon* 8(2): e08846

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<https://doi.org/10.1007/s12686-021-01212-9>
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21. **Ahmed, M. S.** , Salam, S., Rumana, S. S. S. and Barua, A. 2021. DNA barcoding and phylogenetic relationship of shrimps (Crustacea: Decapoda) of Bangladesh. *Bioresearch Communications* 7(1): 941-946.
22. Saha, T., Datta, S.K., Zhilik, A.A., Chowdhury, N.Z., Baki, M.A. and **Ahmed, M.S.** 2021. New geographical record of the rainbow runner, *Elagatis bipinnulata* (Quoy & Gaimard, 1825) (Perciformes: Carangidae) from the Bay of Bengal, Bangladesh. *Thalassas: An International Journal of Marine Sciences* 37 (1):23–26. <https://link.springer.com/article/10.1007/s41208-020-00264-2>
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<https://doi.org/10.1016/j.gene.2018.10.048>
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31. **Ahmed, M. S.**, Dina, S.R., Nahar, L., Islam, N.N, and Reza, H.A. 2018. Molecular characterization of *Channa* species from Bangladesh based on Cytochrome c Oxidase Subunit I (COI) gene. *FishTaxa* 3(4): 87-93.
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33. **Ahmed, M.S.**, Datta, S.K., Saha, T. and Faroque, M.U. 2018. First record of the unicorn leatherjacket *Aluterus monoceros* (Tetraodontiformes: Monacanthidae) from the Southern coast of Bay of Bengal, Bangladesh. *International Journal of Fauna and Biological Studies* 5(4): 106-108.
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42. Latifa, G.A., Ahmed, A.T.A., **Ahmed, M.S.**, Rahman, M.M., Asaduzzaman, M., Obaida, A., Hossain, M.M. and Biswas, A.R. 2015. Fishes of Gobiidae Family, recorded from the rivers and estuaries of Bangladesh: Some morphometric and meristic studies. *Bangladesh J. Zool.* 43(2): 157-171.

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Book

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Book Chapters

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