

K M Shahriar Nazrul

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EDUCATION

PhD Candidate in Applied Science	Present
Saint Mary's University, Halifax, Canada	
Master of Marine Management	2020
Dalhousie University, Halifax, Canada	
Masters in Fisheries Biology and Genetics	2012
Bangladesh Agricultural University, Bangladesh	
Bachelor of Science (Honours) in Fisheries	2010
Noakhali Science & Technology University, Bangladesh	

CERTIFICATIONS

Project Management Professional (PMP®) by Project Management Institute	July 2026
R Programming by Johns Hopkins University	July 2022

AWARDS

The Robin Rigby Trust Fellowship	2023-2026
Early Career Researcher Grant, V2V Global Partnership	2022-2025
Faculty of Graduate Studies & Research Fellowship, SMU	2022-2025
Prime Minister Fellowship, Government of Bangladesh	2019-2020
National Science and Communication Technology Fellowship, Bangladesh	2011-2012
Aqua-Internship Programme (EU-AIT)	2011-2012
University merit position scholarships	2008-2012

PROFESSIONAL EXPERIENCES

Programme Coordinator	April 2025 – Present
<u>Community Conservation Research Network (CCRN), Halifax, Canada</u>	

As the CCRN coordinator, I serve as the operational backbone, connecting Indigenous communities, universities, government, and non-governmental organisations to foster understanding and support for the links between communities, conservation, and livelihoods, while identifying best governance practices that promote community-based conservation and sustainable livelihoods.

Graduate Research and Teaching Assistant	September 2022 – Present
<u>Saint Mary's University, Halifax, Canada</u>	

At Saint Mary's University, I play a pivotal role in supporting educators and enhancing student learning experiences. My responsibilities include assisting with lesson plans, providing targeted support to students, and managing classroom dynamics. I also contribute to grading and preparing materials, ensuring a smooth educational process for both teachers and students.

Fisheries Co-management Specialist**Research Assistant** (3 positions)

September 2023 – Present

Food and Agriculture Organisation of the United Nations, Rome, Italy (remote)

In my role as a Fisheries Co-management Specialist at FAO, I focused on fisheries co-management and co-authored a significant report reviewing existing literature on the pre-implementation phases of co-management systems: "Global Analysis of the Pre-implementation Phase of Co-management Systems: An Academic and Policy Literature Review". This work aimed to inform policy and academic discussions, ultimately contributing to sustainable fisheries management practices globally.

As a Research Assistant at FAO, I contributed to a significant project, "A Community Perspective on Other Effective Area-based Conservation Measures (OECMs) in Marine and Inland Waters". My role involved conducting thorough research and analysing data to inform effective conservation strategies. I also contributed to two projects focused on enhancing small-scale fishers' access to resources and improving socioeconomic assessments related to fisheries management, "Improving Small-Scale Fishers' Equitable Access to Resources" and "Improving Assessment and Monitoring of Socioeconomic Dimensions/Outcomes Relevant to Fisheries Management". Currently, I am engaged in the "E-learning course content integrating Environmental Stewardship by Small-Scale Fisheries and Strengthening Small-Scale Fisheries Producers' Equitable Access to Resources" project, where I am studying the small-scale fishers' responsibilities to environmental stewardship.

Assistant Director

March – December 2022

Department of Fisheries, Government of Bangladesh

In my role as Assistant Director, I played a pivotal part in the USD 235 million Sustainable Coastal and Marine Fisheries Project, a significant World Bank-funded initiative. My contributions included developing comprehensive Marine Fisheries Management Plans for both industrial and artisanal fisheries. I honed my skills in fisheries co-management and community engagement, which are essential to promoting sustainable practices in Bangladesh's fisheries sector.

Research Assistant (2 positions)

May 2020 – March 2021

Nippon Foundation Ocean Nexus Programme, Dalhousie University, Canada

At Dalhousie University, I focused on the socio-economic implications of the COVID pandemic on the fisheries sector and coastal communities. My role involved analysing critical statistics to assess the pandemic's impact on specific sectors, contributing to a deeper understanding of these dynamics during a challenging time. In another role, I identified the institutional challenges faced by marine fisheries development projects in Bangladesh and proposed actionable recommendations to facilitate project success.

Assistant Director

August 2014 - August 2019

Scientific Officer**Sub-district Fisheries Officer**Department of Fisheries, Government of Bangladesh

In my role as Assistant Director at the Department of Fisheries HQ, I played a pivotal role in shaping marine fisheries policies. I provided essential technical advice to policymakers and contributed to significant legislative frameworks, like the Marine Fisheries Act 2020. My involvement in the USD 15 million Bangladesh Marine Fisheries Capacity Building Project strengthened project administration and data management, and I represented Bangladesh at Indian Ocean Tuna Commission meetings to advocate for sustainable tuna exploitation.

As a Scientific Officer, I focused on sustainable fisheries management and the socio-economic development of small-scale fishing communities. I conducted extensive surveys and analyses, including fishery resource assessments and microplastic pollution studies. My work informed policy recommendations to improve the livelihoods of fishing communities and preserve marine ecosystems.

In my earlier role as a Sub-District Fisheries Officer, I was dedicated to managing coastal fisheries resources and fostering sustainable practices. I led awareness campaigns to engage fishing communities in co-management efforts, successfully eliminating destructive fishing methods. My work involved collaboration with various stakeholders, including local communities and NGOs, to ensure compliance with national regulations and protect vital fish species during breeding seasons.

Sector Specialist (Fisheries & Communications) December 2013 - July 2014
Agriculture and Food Security Programme, BRAC, Bangladesh

At BRAC, I focused on advancing agricultural technologies in climate-vulnerable regions of Bangladesh while serving as the communication lead for the Agriculture & Food Security Programme. I prepared annual progress reports and created various IEC materials to support our initiatives. My efforts aimed to improve food security and promote sustainable agricultural practices.

Programme Associate September 2013 - November 2013
Environment and Social Development Organisation (ESDO), Bangladesh

At ESDO, I spearheaded awareness campaigns addressing critical environmental and social issues. My efforts culminated in a national report that successfully persuaded the Ministry of Environment to impose limits on lead in household paints. I also created educational materials to inform communities about the dangers of heavy metals, enhancing public knowledge and safety.

Research Assistant January 2011 - June 2012
Faculty of Fisheries, Bangladesh Agricultural University, Bangladesh

During my time at Bangladesh Agricultural University, I contributed to innovative aquaculture research by developing methodologies for spermatozoa cryopreservation. I supported senior graduate students with essential laboratory techniques and gained valuable experience in water quality measurement. This role deepened my understanding of aquatic biology and strengthened my technical skills in a collaborative academic environment.

Research Assistant July 2009 - June 2010
Department of Fisheries and Marine Science, Noakhali Science and Technology University

In this role, I analysed different Nile Tilapia strains to improve aquaculture productivity while managing a significant research project. My responsibilities included mastering water-quality measurement techniques and overseeing a 32-acre research site, which sharpened my analytical and project-management skills.

PROFESSIONAL TRAINING & MEETINGS

- 23rd IOTC Commission and associated meetings as Bangladesh Head of Delegation (Hyderabad, India) in June 2019.
- Advanced Stock Assessment and Data Analysis for Fisheries (DoF-FAO project TCA) in May 2019.

- 5th IOTC Technical Committee on Allocation Criteria meeting as Bangladesh Head of Delegation (Victoria, Seychelles) in March 2019.
- FAO organised R/V Dr. Fridtjof Nansen Post Survey Meeting- Bay of Bengal Leg (Yangon, Myanmar) in February 2019.
- Leadership Training Course on Fisheries Resource Management (Overseas Fishery Cooperation Foundation of Japan) in November-December 2018.
- Marine Spatial Planning for Bangladesh (Jointly Organised by the Ministry of Commerce, Fujian Institute of Oceanography, National Ocean Technology Centre, China) in October 2018.
- Discovery and Use of Operational Ocean Data Products and Services (Jointly Organised by the UNESCO/IOC IODE and INCOIS-ITCOcean, India) in June 2018.
- Stock Assessment for Tropical Fishes (Bay of Bengal Programme, India) in January-February 2018.
- Regional Ocean Governance Framework, Implementation of the United Nations Convention on the Law of the Sea (UNCLOS) and its Related Instruments in the Southeast Asian and Indian Ocean (International Ocean Institute, Thailand) in July 2017.

RESEARCH COLLABORATIONS

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| • Vulnerability to Viability (V2V) Global Partnership | • International Ocean Institute |
| • EAF-Nansen Programme, FAO | • Nippon Foundation Ocean Nexus Programme |
| • Fujian Institute of Oceanography, China | • Overseas Fishery Cooperation Foundation of Japan |
| • Indian Ocean Tuna Commission | |

TEACHING EXPERIENCES

- Supervised two graduate students' Master's theses on a research project, "Effects of seasonal marine fishing ban on the well-being of the small-scale fishers: insights from Bangladesh".
- Performed Graduate Teaching Assistant role across 14 courses, managing coursework for >400 students.
- Delivered five graduate-level lectures on natural resource management, environmental conservation, sustainability, and related issues.

PUBLICATIONS

Research articles

1. Hasan, M. M., **Nazrul, K. M. S.**, Lei, Z., & Qinhu, F. (2026). Marine Spatial Planning in Bangladesh: A Framework-Based Assessment of Progress, Barriers and Governance Pathways. *Regional Studies in Marine Science* (in press).
2. Sayadat, N., Arif, M. T., Uddin, A. N. M., Rahman, S. M. M., Rahman, M. M., Chowdhury, S. K., **Nazrul, K. M. S.**, Alam, S. M. R., Asadujjaman, M., & Chowdhury, M. T., H. (2023). 65-Day Marine Fisheries Ban Period: Bangladesh's Perspective on Blue Economy. *Bangladesh Maritime Journal*, 7(1): 99-128.
3. Sarker, M. J., Tanmay, M. H., Islam, M. S., **Nazrul, K. M. S.**, Hossen, S., & Ali, M. M. (2021). Seasonal variation in the coastal water phytoplankton communities and their environmental responses at upstream and downstream of the steep Naf River in the south-western Bay of Bengal. *Int. J. Aquat. Biol*, 9(5): 309-325.

4. Lahiri, T., **Nazrul, K. M. S.**, Rahman, M.A., Saha, D., Egna, H., Wahab, M.A., & Mamun, A.A. (2021). Boom-and-Bust: Soft-Shell Mud Crab Farming in South-east Coastal Bangladesh. *Aquaculture Research*: 1-13.
5. Al-Mamun, M. A., Liu, Q., Chowdhury, S. R., Uddin, M. S., **Nazrul, K. M. S.**, & Sultana, R. (2021). Stock Assessment for Seven Fish Species Using the LBB Method from the Northeastern Tip of the Bay of Bengal, Bangladesh. *Sustainability*, 13, 1561: 1-11.
6. Chowdhury, S. R., Sadek, M. A., Al-Mamun, M. A., **Nazrul, K. M. S.**, Mamun, A., Hossain, M. S., & Sharifuzzaman, S. M., (2020). *Podophthalmus vigil* (Crustacea: Brachyura: Portunidae), a new record of marine crab in Bangladesh. *Bangladesh Journal of Zoology*, 48(1): 189-195.
7. Barua, S., Al-Mamun, M. A., **Nazrul, K. M. S.**, Mamun, A. and Das, J. 2020. Maximum Sustainable yield estimate for tiger shrimp, *Penaeus monodon* off Bangladesh coast using trawl catch log. *Bangladesh Maritime Journal*, 4(1):135-144.
8. Sarder, M. R. I, Azad, M. A. K., **Nazrul, K. M. S.** & Rashed, M. (2020). Cryopreservation of spermatozoa of indigenous stinging catfish, *Heteropneustes fossilis* (Bloch) for ex-situ conservation. *Bangladesh Journal of Fisheries*, 32(1): 11-22.
9. Sultana, R., Alam, M. S., **Nazrul, K. M. S.**, Mamun, A., & Al-Mamun, M. A. (2019). Length-weight relationship and population dynamics study of the giant catfish (*Arius thalassinus*) in the Bay of Bengal coast of Bangladesh. *Research in Agriculture, Livestock and Fisheries*, 6(3): 439-444.
10. Mamun, A., **Nazrul, K. M. S.**, Al-Mamun, M. A., Barua, S., & Ali, M. H. (2018). Study on growth, mortality and length-weight relationship of the big eye shad (*Ilisha filigera*) fish sampled from south east coast of Bangladesh. *International Journal of Pure and Applied Zoology*, 7(1): 28-30.
11. **Nazrul, K. M. S.**, Mamun, A., Roy, B. J., Singha, N. K., Rahman, M. G., & Mohanta, S. K., (2018). Trend of artisanal Fisheries catch in south-eastern coast of Bangladesh. *Acta Scientific Agriculture*, 2(11): 64-67.
12. **Nazrul, K. M. S.**, Mamun, A., Al-Mamun, M. A., Barua, S., & Uddin, M. S. (2018). Population dynamics study of ribbonfish, *Lepturacanthus savala* from the north-eastern tip of Bay of Bengal. *Global Journal of Science Frontier Research: E Marine science*, 18(1-1): 41-47.
13. Rana, M. E. U., Salam, A., **Nazrul, K. M. S.**, & Hasan, M. M. (2018). Hilsa Fishers of Ramgati, Lakshmipur, Bangladesh: An Overview of Socio-Economic and Livelihood Context. *Journal of Aquaculture Research & Development*, 9(7): 1-5.
14. Hasan, M. M., **Nazrul, K. M. S.**, Parvej, M. R., Patwary M. S. A., & Uddin, A. M. M. B. (2017). Shark and Shark Products Trade Channel and its Conservation Aspects in Bangladesh. *Journal of Fisheries and Livestock Production*, 5(1): 221.
15. Patwary, M. S. A., Mamun, A-Al, Nannu, M. T. A, Rahman, A. K. M. A., & **Nazrul, K. M. S.** (2016). Dramatic Increase of Ganges River Sprat (*Corica soborna*) And Indian River Shad (*Gudusia chapra*): Impact on the Aquatic Biodiversity of Kaptai Lake, Bangladesh. *International Journal of Pure and Applied Zoology*, 4(2): 161-167.
16. Hasan, M. M., Sarker, B. S., Rahman M., Patwary M. S. A., Sarker, M. J., **Nazrul, K. M. S.**, & Parvej, M. R. (2015). Present Yield Status, Percentage Composition and Seasonal Abundance of Shark in Two Geographically Important Zones of Bangladesh. *Fisheries and Aquaculture Journal*, 6(4).
17. Uddin, M. M., Sarker, B. S., **Nazrul, K. M. S.**, & Tonny, U. S. (2014). Propensity of using Harmful Gas Controller and Oxygen Supplier on the Basis of Fish Farmers Age, Educational Status and Landownership of Six Upazilas in Noakhali District, Bangladesh. *Global Journal of Science Frontier Research: D Agriculture and Veterinary*, 14(6-1): 83-88.
18. Paul, P. K., Rahman, A. F. M. A., & **Nazrul, K. M. S.** (2014). Successful practice of community-based fisheries management in seasonal water-logged paddy lands of Begumganj, Noakhali, Bangladesh. *International Journal of Research in Agriculture and Food Sciences*, 2(2): 29-37.

19. Hasan, M., Sarker, B. S., **Nazrul, K. M. S.**, & Tonny, U. S. (2014). Salinity tolerance level of GIFU tilapia strain (*Oreochromis niloticus*) at juvenile stage. *International Journal of Agricultural Sciences*, 4(1): 83-89.
20. Tonny, U. S., **Nazrul, K. M. S.**, Islam, M. S., Afroz, K. B., Rafiquzzaman, S. M., & Mamun, A.-Al. (2012). Genetic variation between two different strains GIFU and GIFT of Nile Tilapia, *Oreochromis niloticus* using allozyme marker. *International Journal of Life Sciences Biotechnology and Pharma Research*, 1(2): 340-345.
21. Faruque, M. O., **Nazrul, K. M. S.**, Tonny, U. S., Islam, K. R., Dey, S. C., Mona, S. J., & Saha, D. (2012). Status of an ideal dry fish market of Bangladesh: a study on Asadganj dry fish market, Chittagong. *International Journal of Life Sciences Biotechnology and Pharma Research*, 1(3): 214-225.
22. Hasan, M. M., Sarker, B. S., **Nazrul, K. M. S.**, Rahman, M. M., & Mamun, A.-Al. (2012). Marketing channel and export potentiality of freshwater mud eel (*Monopterus albus*) of Noakhali region in Bangladesh. *International Journal of Life Sciences Biotechnology and Pharma Research*, 1(3): 226-233.
23. Islam, K. R., Sarker, B. S., **Nazrul, K. M. S.**, Tonny, U. S., & Faruque, M. O. (2012). Impacts of beel nursery management on the variation of indigenous fish species and its socio-economic profitability: a study in the Dhaka beel, Bangladesh. *International Journal of Natural Sciences*, 2(3): 76-82.
24. **Nazrul, K. M. S.**, Mamun, A.-Al, Sarker, B. S., & Tonny, U. S. (2011). Morphological variability of the 11th generation strain of Nile tilapia, (*Oreochromis niloticus*) and traditional genetically improved farmed tilapia. *Journal of Bangladesh Agricultural University*, 9(2): 345-349.
25. Sarder, M. R. I., Rahman, A. K. M. A., Samad, M. S., **Nazrul, K. M. S.**, & Bhuiyan, M. K. J. (2011). Cryopreservation of sperm of *Labeo rohita* (Hamilton, 1822) and its use in fertilization and hatching of eggs. *Progressive Agriculture*, 22(1&2): 123-137.
26. Das, B. K., Mamun, A.-Al, & **Nazrul, K. M. S.** (2011). Feasibility study of fish and shrimp smoking in the mid-coastal zone of Bangladesh. 'RECORDS' Zoological Survey of Pakistan, 20: 54-60.

Thesis

1. **Nazrul, K. M. S.** (2020). Identifying institutional barriers to marine fisheries development projects in Bangladesh [graduate research project], Halifax, NS: Dalhousie University.
2. **Nazrul, K. M. S.** (2012). Spermatozoa cryopreservation protocol of indigenous climbing perch, *Anabas testudineus* (Bloch 1792) [master's thesis], Mymensingh, Bangladesh: Bangladesh Agricultural University.
3. **Nazrul, K. M. S.** (2010). Morphometric and meristic variations between the 11th generation strain of Nile tilapia and traditional genetically improved farmed tilapia (*Oreochromis niloticus*) [undergraduate research project], Noakhali, Bangladesh: Noakhali Science & Technology University.

Books

1. Gain, D., Roy, B. K., & **Nazrul, K. M. S.** (2014). Extent of Organic Pollution in Major River Systems of Sundarban. Lambert Academic Publishing. ISBN: 978-3-659-62748-4. 64p.
2. **Nazrul, K. M. S.**, Tonny, U. S., & Gain, D. (2013). Morphological Variability of Two Different Strains of Nile Tilapia: GIFT & GIFU. Lambert Academic Publishing. ISBN: 978-3-659-51280-3. 54p.
3. **Nazrul, K. M. S.**, Sarder, M. R. I., & Tonny, U. S. (2013). Sperm Cryopreservation Protocol of *Anabas testudineus* (Bloch 1792): New prospect of conservation. Lambert Academic Publishing. ISBN: 978-3-659-21008-2. 47p.

International reports

1. Castrejón, M., & **Nazrul, K. M. S.** (2024). A global analysis of the pre-implementation phase of fisheries co-management systems: an academic and policy literature review. *FAO Fisheries and Aquaculture Circular No. 1277*. Rome, FAO. <https://doi.org/10.4060/cd2902en>
2. MFSMU. (2017). *Samudrik Matshya Sampad Ahron, Babosthapon O Unnayan Bhabna* (Exploitation, Management of Marine Fisheries Resources and its Development). (Editors: Azad, S. A., Golder, M. I., Sultana, M., Rahman, M. L., Roy, B. J., Singha, N. K., Rahman, M. G., Mohanta, S. K., **Nazrul, K. M. S.**, & Mamun, A.). Marine Fisheries Survey Management Unit, Department of Fisheries, Bangladesh. 58pp.
3. Hossain, S., Sultana, S., **Nazrul, K. M. S.**, Jacobs, E., & Akter, F. (2013). Study report on “Toxic Toys”: Heavy Metal Content & Public Perception in Bangladesh. IPEN (A toxic free future): 39pp.
4. Sultana, S., **Nazrul, K. M. S.**, & Jacobs, E. (2013). National Report on Lead in New Enamel Household Paints of Bangladesh. Edited by: Dr. Scott Clark, Dr. Shahriar Hossain, Dr. Sara Brosche and Ms. Valerie Denney. IPEN (A toxic free future): 37pp.
