

## Curriculum Vitae of Dr. Mohammad Mahfujul Haque



### PERSONAL DATA

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Current position **Professor**  
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### EDUCATION / ACADEMIC DEGREES

2008 Doctor of Philosophy, Institute of Aquaculture, University of Stirling, United Kingdom  
2001 M.S. in Aquaculture, Department of Aquaculture Bangladesh Agricultural University, Mymensingh, Bangladesh  
1999 B.Sc. Fisheries (Honors), Faculty of Fisheries, Bangladesh Agricultural University

### APPOINTMENTS

2012 - to date Professor, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh.  
2008-2012 Associate Professor, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh  
2003-2008 Assistant Professor, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh  
2000-2003 Lecturer, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh

### SCIENTIFIC QUALIFICATIONS

1. Worked as a technical working coordinator to develop Pangasius Aquaculture Dialogue (PAD) Standards implemented by World Wildlife Fund (WWF) <http://www.worldwildlife.org/what/globalmarkets/aquaculture/pangasiusstandards.html>
2. Worked as a specialist in Decentralized Fish Seed Project under Research Into Use Programme (RIUP) funded by NR International.
3. Worked as a research investigator with EU funded Sustaining Ethical Aquaculture Trade (SEAT) project (<http://seatglobal.eu/partners/asia/bangladesh-agricultural-university/>) to increase value and volume of seafood exporting to EU market.

### MANAGERIAL SKILLS & OTHER TASKS

1. Associate Director, Bangladesh Agricultural University Research System (BSURES), BAU, Mymensingh June 2019 to June 2021.
2. Executive Editor, Journal of Bangladesh Agricultural University, BAU, Mymensingh from 11 June 2019 to June 2021.
3. Advisor, Badhan (A Blood Donation Group) since 10 March 2019 to date.
4. Head, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh, From 12 October 2016 to 11 October 2018.
5. Expert Member, Departmental Promotion Committee, Bangladesh Fisheries Research Institute (BFRI) from 21 April 2016 to date
6. Associate Director, Professor Muhammed Hussaion Central Laboratory (PMHCL), Bangladesh Agricultural University (BAU), Mymensingh from 14 February 2013 to 13 February 2015.
7. President, Binodon Sangha (Cultural Association), BAU, Mymensingh from 2014 to 2015.
8. Vice -President, Bangladesh Journal of Progressive Agriculture, BAU, Mymensingh

### MAJOR RESEARCH PROJECT FUNDING

1. Worked as a Principal Investigator of an international collaborative research project 'Transforming Climate Knowledge with and for Society (TRACKS): mobilising high-quality knowledge on climate change variability in northeast Bangladesh' <http://projecttracks.net/>.
2. Worked as a Co-Investigator of an international collaborative research project 'Evaluating Costs and Benefits of Prophylactic Health Products and Novel Alternatives on Intensifying Small Scale Aquaculture Farmers in Asia (IMAQulate)' <https://gtr.ukri.org/person/BF2FC0C3-2158-41BD-A4FB-5A7F6A89AC53>.
3. Worked as a Co-Investigator of DANIDA funded project 'Upgrading Pangas and Tilapia Value Chains in Bangladesh (BANG-FISH)' <http://bangfish.org/researcher/>
4. Currently working as the Host-Country Principal Investigator of a USAID funded project under the mission of Feed the Future Innovation Lab for Fish. As the Host-Country PI, I am leading a project 'Harnessing Machine Learning to Estimate Aquaculture Production and Value Chain Performance in Bangladesh'. Along with collaborative research partners from the Michigan State

University, USA, WorldFish and CIAT, we aim to use machine learning to automate extraction of data on aquaculture ponds from satellite images and integrate with georeferenced survey data to accurately estimate fish production, economic value, and employment (disaggregated by gender and age) to improve the accuracy of official statistics and enhance capacity to effectively target investments and regulation. One of the key objectives of the project is to use GIS-based tools for monitoring, diagnostics and enhancing analytical abilities for various stakeholders who are working in different institutions in Bangladesh. We are building data system with an interactive and a publicly available online tool that can be used to present, map, visualize and analyze a wide range of data on aquaculture <https://www.fishinnovationlab.msstate.edu/newsroom/2021/02/emerging-technologies-improve-aquaculture-data-systems-bangladesh>

#### SELECTED RECENT PEER-REVIEWED ARTICLES (Total number of publications: 15)

1. **Haque, M.M.**, Alam, M.M., Hoque, M.S., Hasan, N.A., Nielsen, M., Hossain, M.I., Frederiksen, M., 2021. Can Bangladeshi pangasius farmers comply with the requirements of aquaculture certification? *Aquaculture Reports* (Accepted).
2. **Haque, M. M.**, Hasan, N. A., Eltholth, M. M., Saha, P., Mely, S. S., Rahman, T., Murray, F. J., 2021. Assessing the impacts of in-feed probiotic on the growth performance and health condition of pangasius (*Pangasianodon hypophthalmus*) in a farm trial. *Aquaculture Reports* 20(28):100699. <https://www.sciencedirect.com/science/article/pii/S2352513421001150?via%3Dihub>.
3. Alam, M., **Haque, M. M.** 2021. Presence of Antibacterial Substances, Nitrofurans Metabolites and other Chemicals in Farmed Pangasius and Tilapia in Bangladesh: Probabilistic Health Risk Assessment. *Toxicology Reports*, 4: 100126. <https://www.sciencedirect.com/science/article/pii/S2667010021001050?via%3Dihub>.
4. Aziz, M.S.B., Hasan, N. A., Mostafizur, M. M. R., Alam, M. M., **Haque, M. M.** 2021. Decline in fish species diversity due to climatic and anthropogenic factors in Hakaluki Haor, an ecologically critical wetland in northeast Bangladesh. *Heliyon*, 7(1): e05861. <https://www.sciencedirect.com/science/article/pii/S2405844020327031>.
5. Ahammad, A. K. S., Asaduzzaman, M., Ahmed, M. B. U., Akter, A., A., Islam, M. S., **Haque, M. M.**, Ceylan, H., Wong, L. L., 2021. Muscle cellularity, growth performance and growth-related gene expression of juvenile climbing perch *Anabas testudineus* in response to different eggs incubation temperature. *Journal of Thermal Biology*. 96:102830. <https://www.sciencedirect.com/science/article/abs/pii/S030645652030601X?via%3Dihub>
6. Hasan, N. A., Heal, R. D., Bashar, A., Bablee, A. L., **Haque, M. M.** 2021. Impacts of COVID-19 on the finfish aquaculture industry of Bangladesh: A case study. *Marine Policy* 130(1):104577. <https://www.sciencedirect.com/science/article/abs/pii/S0308597X21001883?via%3Dihub>
7. Hasan, N. A., **Haque, M. M.** 2020. Dataset of white spot disease affected shrimp farmers disaggregated by the variables of farm site, environment, disease history, operational practices, and saline zones. *Data in Brief*, 31: 105936. <https://www.sciencedirect.com/science/article/pii/S2352340920308301?via%3Dihub>.
8. Hasan, N. A., **Haque, M. M.**, Hinchliffe, S. J., Guilder, J. 2020. A sequential assessment of WSD risk factors of shrimp farming in Bangladesh: Looking for a sustainable farming system. *Aquaculture*, 526: 735348. <https://www.sciencedirect.com/science/article/abs/pii/S0044848619333460?via%3Dihub>.
9. Chaput, D. L., Bass, D, Alam, M. M., Hasan, N. A., Stentiford, G. D., van Aerle, R., Moore, K., Bignell, J. P., **Haque, M. M.**, Tyler, C. R. 2020. The Segment Matters: Probable Reassortment of Tilapia Lake Virus (TiLV) Complicates Phylogenetic Analysis and Inference of Geographical Origin of New Isolate from Bangladesh. *Viruses*, 12(3): 258. <https://www.mdpi.com/1999-4915/12/3/258>.
10. Hasan, N. A., **Haque, M. M.**, Hinchliffe, S. J., Guilder, J. 2020. A sequential assessment of WSD risk factors of shrimp farming in Bangladesh: Looking for a sustainable farming system. *Aquaculture*, 526: 735348. <https://doi.org/10.1016/j.aquaculture.2020.735348>
11. Alam, M. M., **Haque, M. M.**, Aziz, S. B., Mondol, M. M. R. 2019. Development of pangasius–carp polyculture in Bangladesh: Understanding farm characteristics by, and association between, socio-economic and biological variables. *Aquaculture*, 505:431-440. <https://www.sciencedirect.com/science/article/abs/pii/S0044848618321057>
12. Bremer, S., **Haque, M. M.**, Aziz, S. B., Kvamme, S. 2019. ‘My new routine’: Assessing the impact of citizen science on climate adaptation in Bangladesh, *Environmental Science & Policy*, <https://doi.org/10.1016/j.envsci.2018.12.029>.
13. Kibria, A. S. M., **Haque, M. M.** 2018. Potentials of integrated multi-trophic aquaculture (IMTA) in freshwater ponds in Bangladesh. *Aquaculture Reports*, 11:8 – 16. <https://www.sciencedirect.com/science/article/pii/S2352513417301436>
14. **Haque, M. M.**, Bremer, S., Aziz, S. B., van der Sluijs, J. P. 2017. A critical assessment of knowledge quality for climate adaptation in Sylhet Division, Bangladesh. *Climate Risk Management*, 16:43-58. <https://www.sciencedirect.com/science/article/pii/S2212096316300304>
15. **Haque, M. M.**, Belton, B. Alam, M. M., Ahmed, A. G. and Alam, M. R. 2016. Reuse of fish pond sediments as fertilizer for fodder grass production in Bangladesh: Potential for sustainable intensification and improved nutrition. *Agriculture, Ecosystems and Environment*, 216:226-236. <https://www.sciencedirect.com/science/article/pii/S0167880915301122>
16. Wahab, M. A, Nahid, S. A. A., Ahmed, N., **Haque M. M.** Karim, M. 2012. Current status and prospects of farming the giant river prawn (*Macrobrachium rosenbergii*, De Man) in Bangladesh, *Aquaculture Research*, 43: 970-983. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2109.2012.03137.x>