

Bangladesh Open University (BOU)

Curriculum Vitae of Prof. Dr. Md. Shah Alam Sarker



Professor (Grade-1) & Former Dean

School of Agriculture and Rural Development (SARD)
Bangladesh Open University (BOU), Gazipur-1705, Bangladesh
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Area of Specialization and Research Interest

Feed Technology, Environment-friendly Aquafeed, Aquaculture Nutrition, Aquaponics, Biofloc Technology, Mariculture, Biotechnology, Water pollution, Blue Economy, Open & Distance Learning

Educational Qualifications

- **Post Doctoral Studies (Aquaculture Nutrition)**, Department of Aquatic Biosciences, Tokyo University of Marine Science and Technology, Tokyo, Japan (Awarded in 2010).
- **Ph. D. (Fish Nutrition)**, Department of Aquatic Biosciences, Tokyo University of Marine Science and Technology, Tokyo, Japan (Awarded in 2005).
- **Post Graduate Studies as Research Student**, Laboratory of Fish Nutrition, Department of Aquatic Biosciences, Tokyo University of Fisheries, Tokyo, Japan (Awarded in 2002).
- **Post Graduate Studies**, Axelrod Institute of Ichthyology, Department of Zoology, University of Guelph, Guelph, Ontario, Canada. (Awarded in 1998).
- **M. Sc. (Fisheries) in Fisheries Technology**, Bangladesh Agricultural University, Mymensingh, Bangladesh (1st Class 1st position, 1990).
- **B. Sc. Fisheries (Hons.)**, Bangladesh Agricultural University, Mymensingh, Bangladesh (1st Class 3rd position, 1989).
- **HSC**, Cumilla Victoria Government College, Cumilla, Cumilla Board, Bangladesh (1st Division, 1985).
- **SSC**, Gomta Ishaquia High School, Muradnagar, Cumilla, Cumilla Board, Bangladesh (1st Division, 1983).

Professional Experiences

- **Adjunct Faculty** (Fisheries, Aquaculture & Marine Science): March 09, 2017- to date; Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- **Research Supervisor** (Aquaculture): February 09, 2014 - to date; Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur-1706, Bangladesh.
- **Professor (Fisheries) Grade-1**: July 01, 2020 - to date, SARD, BOU, Gazipur-1705, Bangladesh.
- **Professor** (Fisheries) Grade-2: April 04, 2016 – June 30, 2020, SARD, BOU, Gazipur-1705, Bangladesh.
- **Professor** (Fisheries) Grade-3: October 29, 2011–April 03, 2016, SARD, BOU, Gazipur-1705, Bangladesh

- **Associate Professor** (Fisheries): September 20, 2006 - October 28, 2011, SARD, BOU, Gazipur-1705, Bangladesh.
- **Assistant Professor** (Fisheries): May 6, 1998 - September 19, 2006, SARD, BOU, Gazipur-1705, Bangladesh.
- **Lecturer** (Fisheries): August 20, 1996 – May 5, 1998, SARD, BOU, Gazipur-1705, Bangladesh.
- **Senior Officer** (Fisheries): June 16, 1995 - August 19, 1996, Sonali Bank, Moulvibazar, Ministry of Finance, Bangladesh.
- **Senior Officer** (Fisheries): August 01, 1994 - June 15, 1995, Sonali Bank, Sunamgonj, Ministry of Finance, Bangladesh.
- **Senior Instructor** (Fisheries): April 15, 1993- July 31, 1994, Youth Training Center, Mymensingh, Department of Youth Development, Ministry of Youth and Sports, Bangladesh.
- **Graduate Research Assistant** (Fisheries): June 01, 1992 - March 31, 1993, Bangladesh Agricultural University, Mymensingh, Bangladesh.

Proficiency in Languages

- **Bengali** – Excellent
- **English** – Excellent
- **Japanese** – Excellent
- **Arabic** – Good

Fellowships awarded

1. **Post Doctoral fellowship** - By Tokyo University of Marine Science and Technology. From January 01, 2008 to March 31, 2010 for doing post-doctoral research at the Tokyo University of Marine Science and Technology, Tokyo, Japan.
2. **Doctoral fellowship** - By Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT). From April 01, 2002 to March 31, 2005 for studying as a doctoral student at the Tokyo University of Marine Science and Technology, Tokyo, Japan.
3. **Post graduate fellowship** - By Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT). From October 01, 2000 to March 31, 2002 for studying as a research student at the Tokyo University of Fisheries, Tokyo, Japan.
4. **Post graduate fellowship** – By Tecsuit International, West Montreal, Quebec, Canada and Ministry of Education, Govt. of Bangladesh. From June, 1998 to December 31, 1998 for training, study and research programme at the University of Guelph, Guelph, Ontario, Canada.
5. **Education leadership awarded:** Received the “**BEST PROFESSOR IN FISHERIES**” award in individual education leadership category under the “**BANGLADESH EDUCATION LEADERSHIP AWARD 2018**” by the international Organizations World CSR Day & World Sustainability and CMO, ASIA in a program held on 23rd September, 2018 at the Radisson Blu, Dhaka, Bangladesh.

Supervision of PhD, MS and MSARL Students

- **PhD Students: 08 (03 students** of PhD in Aquaculture, Department of Aquatic Biosciences, Tokyo University of Marine Science and Technology, Tokyo, Japan and **05 students** of PhD in Aquaculture at SARD, BOU, Gazipur-1705, Bangladesh).
- **MS Students: 21 (05 students** of MS in Aquaculture of the Department of Aquatic Biosciences, Tokyo University of Marine Science and Technology, Tokyo, Japan; **05 students** of MS in Aquaculture at the Department of Aquaculture, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur-1706, Bangladesh and **11 students** of MS in Aquaculture at SARD, BOU, Gazipur-1705, Bangladesh).
- **MSARL Students: 16 (16 students** of Masters of Sustainable Agriculture and Rural Livelihood (MSARL) of SARD, BOU, Gazipur-1705, Bangladesh).

Completion of Research Projects

- **Integrated Fish-cum-Horticultural Crop Farming at Bangladesh Open University campus: Phase-I:** Funded by BOU internal research fund, Gazipur-1705, Bangladesh.
- **Integrated Fish-cum-Horticultural Crop Farming at Bangladesh Open University campus: Phase-II:** Funded by BOU internal research fund, Gazipur-1705, Bangladesh.
- **Prospects of Establishing Aquaponic system: Cultivation of Tilapia with vegetable at BOU, Gazipur:** Funded by BOU internal research fund, Gazipur-1705, Bangladesh.
- **Prospects of Tilapia fish culture at BOU Gazipur campus using Biofloc Technology,** Funded by BOU internal research fund, Gazipur-1705, Bangladesh.
- **Evaluation of growth and production of Vietnamese koi fish (*Anabas testudineus*) in the Biofloc Technology based cultural system at BOU Gazipur campus:** Funded by BOU internal research fund, Gazipur-1705, Bangladesh.

Papers published in National and International Journals:

1. Kanok, T. S., M. A. Hossain, M. R. Islam, A.K.M.A. Shah, M. A. Rahman, **M. S. A. Sarker**, U. K. Fatema (2023). Evaluation of Banana Stem Ash Extract as a Low- Cost Culture Medium on the Growth and Pigmentation of *Spirulina platensis*. Egyptian Journal of Aquatic Biology and Fisheries., **27(5)**: 1489–1504.
2. **Sarker, M. S. A.**, M. A. U. Shaikh, M. A. Salam and M. M. Islam (2023). Evaluation of different stocking density of small indigenous fish Pabda with Carp polyculture system. Khulna University Studies. Special issue ISFMRT, 2023: 11-23.
3. Chakraborty, P., M. R. Islam, M. A. Hossain, U. K. Fatema, D. C. Shaha, **M. S. A. Sarker** and T. Aakter (2021). Earthworm meal (*Perionyx excavatus*) as an alternative protein source to fish meal in feed for juvenile butter catfish (*Ompok pabda*). Aquaculture International, **29**: 2119–2129.
4. M. A. Hossain, S. A. Shimu, **M. S. A. Sarker**, M. E. Ahsan and M. R. Banu (2021). Biomass growth and composition of azolla (*Azolla pinnata* r. br.) supplemented with inorganic phosphorus in outdoor culture. SAARC Journal of Agriculture, **19(1)**: 177-184.
5. Mia, M. Y., R. Sultana, M. M. Rahman and **M. S. A. Sarker** (2017). Physico-chemical Parameters and Heavy Metal concentration of the Turag River water, Bangladesh. Bangladesh Open University Journal of Agriculture and Rural Development, Vol. **9(1&2)**: 12-24.
6. Haque, M. M., A. Kowser, S. Alam, **M. S. A. Sarker** and S. Ullah (2017). Feminization of Nile Tilapia (*Oreochromis niloticus*) by Hormonal Treatments. Bangladesh Open University Journal of Agriculture and Rural Development, **9(1&2)**: 62-67.
7. Kawser, A. Q. M. R., M. A. Hossain and **M. S. A. Sarker** (2016). Growth response, feed utilization and nutrient retention in monosex tilapia (*Oreochromis niloticus*) fed with floating and sinking pellets in a recirculating aquaponic system. International Journal of Fisheries and Aquatic Studies. **4(6)**: 329-333.
8. Khan, A.K., H. Huq and **M. S. A. Sarker** (2015). Molecular marker-based characterization and genetic diversity analysis of rice using SSR and RAPD. International Journal of Bio-resource and Stress Management, **6(3)**: 309-315
9. Hanini, I., **M. S. A. Sarker**, S. Satoh, Y. Haga, S. Corneillie, T. Ohkuma, and H. Nakayama (2013). Effects of taurine, phytase and enzyme complex supplementation to low fish meal diets on growth of juvenile red sea bream *Pagrus major*. Aquaculture Science, **61(4)**: 367-375.
10. Bake, G. G., **M. S. A. Sarker**, M. Endo, A. Akimoto and T. Takeuchi (2012). Evaluation of high level inclusion of recycled food wastes supplemented with lysine, methionine and arginine in the diet of Nile tilapia (*Oreochromis niloticus*) juveniles. International Journal of Fisheries and Aquaculture Sciences, **2(2)**: 73-88.
11. **Sarker, M. S. A.**, S. Satoh, K. Kamata, Y. Haga, and Y. Yamamoto (2012). Partial replacement of fish meal with plant protein sources using organic acids to practical diets for juvenile yellowtail *Seriola quinqueradiata*. Aquaculture Nutrition, **18**: 81-89.
12. **Sarker, M. S. A.**, S. Satoh, K. Kamata, Y. Haga, and Y. Yamamoto (2012). Supplementation effect(s) of organic acids and/or lipid to plant protein-based diets on juvenile yellowtail, *Seriola quinqueradiata* Temminck et Schlegel 1845, growth and, nitrogen and phosphorus excretion. Aquaculture Research, **43(4)**: 538-545.

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13. Sarker, M. A., Y. Yamamoto, Y. Haga, **M. S. A. Sarker**, M. Miwa, G., Youshizaki and S. Satoh (2011). Influences of low salinity and dietary fatty acids on fatty acid composition and fatty acid desaturase and elongase expression in red sea bream, *Pagrus major*. *Fisheries Science*, **77(3)**: 385-396.
 14. **Sarker, M. S. A.**, S. Satoh (2010). Dietary supplementation of lipid and inorganic phosphorus to develop environment-friendly feed for young red sea bream, *Pagrus major* *Progressive Agriculture*, **21(1&2)**: 186-197.
 15. **Sarker, M. S. A.**, S. Satoh (2009). Effect of dietary phosphorus and zinc levels on Hemaetocreat value, plasma mineral content and plasma alkaline phosphate activity of fingerling Rainbow trout *Oncorhynchus mykiss*. *Progressive Agriculture*, **20(1&2)**: 183-192.
 16. **Sarker, M. S. A.**, S. Satoh, S. Matsumoto, S. Sasaki, H. Miyashita, V. Kiron, Y. Yamamoto and T. Miyazaki (2009). Effect of dietary supplementation of citric acid and amino acid-chelated trace elements on growth and excretion of nitrogen and phosphorus in young yellowtail, *Seriola quinqueradiata*. *Aquaculture Science*, **57(3)**: 389-397.
 17. **Sarker, M. S. A.**, S. Satoh, K.Satoh, Y. Yamamoto and V. Kiron, (2009). Effects of dietary phosphorus supplementation on growth and excretion of nitrogen and phosphorus by growing yellowtail *Seriola quinqueradiata*. *Aquaculture Science*, **57(2)**: 279-284.
 18. **Sarker, M. S. A.** and S. Satoh (2008). Influences of dietary lipid and phosphorus levels on retention and excretion of phosphorus and nitrogen in fingerling red sea bream *Pagrus major*. *Bangladesh Journal of Fisheries Research*, **12(2)**: 143-150.
 19. **Sarker, M. S. A.** and S. Satoh (2008). Effects of dietary phosphorus and zinc levels on growth and bone mineralization in fingerlings of rainbow trout, *Oncorhynchus mykiss*. *Bangladesh Journal of Fisheries Research*, **12(1)**: 1-9.
 20. **Sarker, M. S. A.**, M. N. Islam and M. M. Rahman (2008). Effect of plant protein diet on the growth of Thai Sharpunti (*Puntius gonionotus*): an analysis of repeated measurements experiment. *Jahangirnagar University Journal of Science*, **31(1)**: 117-126.
 21. Rashid, A.Q.M. B. and **M. S. A. Sarker** (2008). Strategic intervention of ODL in Diploma in Youth and Development works in Bangladesh. *Turkish Online Journal of Distance Education*, **9(4)**: 89-96.
 22. **Sarker, M. S. A.** and S. Satoh (2007). Influence of dietary phosphorus and zinc levels on whole body mineral, liver mineral, and liver vitamin-C contents of fingerling rainbow trout, *Oncorhynchus mykiss*. *Journal of Agriculture and Rural Development*, **5(1-2)**: 135-142.
 23. **Sarker, M. S. A.** and M. S. Alam (2007). Effectiveness of tutors training workshop of DYDW programme of Bangladesh Open University. *Journal of Agriculture and Rural Development*. **5(1-2)**, 7-12.
 24. **Sarker, M. S. A.**, S. Satoh and V. Kiron (2007). Inclusion of citric acid and/or amino acid-chelated trace elements in alternate plant protein source diets affects growth and excretion of nitrogen and phosphorus in red sea bream *Pagrus major*. *Aquaculture* **262**: 436-443.
 25. **Sarker, M. S. A.**, S. Satoh and V. Kiron (2005). Supplementation of citric acid and amino acid-chelated trace element to develop environment-friendly feed for red sea bream, *Pagrus major*. *Aquaculture* **248**: 3-11.
 26. **Sarker, M. S. A.** and S. Satoh (2005). Studies on development of environmentally-friendly aquafeeds for two potential marine finfish of Japan. *Research and Presentation*, **10**, 65-80.
 27. Satoh, S., **M. S. A. Sarker**, K. Satoh and V. Kiron (2004). Effects of dietary lipid and phosphorus levels on nitrogen and phosphorus excretion in young yellowtail *Seriola quinqueradiata*: A preliminary observation. *Fisheries Science*, **70**: 1082-1088.
 28. Hasanat, M. A., **M. S. A. Sarker**, P. Jahan, M. Uddin and P. Lavens (2001). The potential use of liposomes as a lipid supplement in the culture of Juvenile *Crassostrea gigas*. *Asian Journal of Chemistry*, **13(4)**: 1625-1632.
 29. Hasanat, M. A., **M. S. A. Sarker**, P. Jahan, M. Uddin and P. Lavens (2001). Effects of the supplementation of a lipid emulsion diet of *Tetraselmis suecica* for Juvenile *Tapes Philippinarum*. *Asian Journal of Chemistry*, **13(3)**: 953-964.
 30. Islam, M. N., M. K. Bhowmik and **M. S. A. Sarker** (2000). Evaluation through justification of the course materials of Mathematics at SSC level of Bangladesh Open University (BOU). *Pakistan Journal of Education*, **XVII (1)**: 121-129.
 31. Hasanat, M. A., K. R. Hasan and **M. S. A. Sarker** (2000). Studies on the growth and abundance of zooplankton of the river old Brahmaputra. *Bangladesh Journal of Fisheries*. **23(2)**: 49-55.
 32. Hasanat, M. A., K. R. Hasan, **M. S. A. Sarker** and M. S. Rahman (2000). Studies on phytoplankton of the river old Brahmaputra. *Bangladesh Journal of Fisheries*. **23(1)**: 57-63.

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33. Hossain, M. A., A. K. M. A. Shah, S. M. Rahmatullah and **M. S. A. Sarker** (1998). Effect of supplementary feeding methods on the growth of Thai sharpunti, *Puntius gonionotus* (Bleeker) in earthen ponds. Bangladesh Journal of Fisheries, **21(1)**: 99-103.
 34. Akbar, H. M. D. and **M. S. A. Sarker** (1997). Spatial pattern and environment of fish diseases in Bangladesh: A case study of Epizootic Ulcerative Syndrome (EUS). Bhugul Patrika (A Journal of Geography). **16**: 51-74.

Seminar papers abstract and proceedings:

Paper abstracts (Oral presentation)

1. **Sarker, M. S. A.**, F. Huang, K. Futami, Y. Haga, S. Satoh, T. Wakayama, K. Yamaguchi, and T. Akiyama (2022). Housefly maggot meal as a potential substitute of fish meal ingredient in practical diets of rainbow trout, *Oncorhynchus mykiss*. Abstracts for the 9th Biennial Conference and Research Fair, Bangladesh Fisheries Research Forum (BFRF) and Universiti Malaysia Sarawak (UNIMAS), 28-29 May, BARC, Dhaka, Bangladesh, 62pp.
2. **Sarker, M. S. A.**, M. A. U. Shaikh and M. A. Salam (2022). Evaluation of different stocking density of small indigenous fish Pabda with carp polyculture system at Jhenaidha district. Abstracts for the 9th Biennial Conference and Research Fair, Bangladesh Fisheries Research Forum (BFRF) and Universiti Malaysia Sarawak (UNIMAS), 28-29 May, BARC, Dhaka, Bangladesh, 63pp.
3. Sarker, M.A., **Sarker, M. S. A.**, Y. Haga and S. Satoh (2022). Total replacement of fish oil with palm oil in feed and its effect on growth performance, proximate composition and fatty acid profile in red sea bream *Pagrus major*. Abstracts for the 9th Biennial Conference and Research Fair, Bangladesh Fisheries Research Forum (BFRF) and Universiti Malaysia Sarawak (UNIMAS), 28-29 May, BARC, Dhaka, Bangladesh, 17pp.
4. Tun, A. A., **Sarker, M. S. A.**, Y. and A. Hossain (2022). Evaluation of nutritional quality of feed of some indigenous fish species in Bangladesh. Abstracts for the 9th Biennial Conference and Research Fair of Bangladesh Fisheries Research Forum (BFRF) and Universiti Malaysia Sarawak (UNIMAS), 28-29 May, BARC, Dhaka, Bangladesh, 44pp.
5. Nasrin, S, **Sarker, M. S. A.**, M. A. Salam and Tun, A. A. (2022). Evaluation of nutritional quality of Tilapia (*Oreochromis niloticus*) feed available in Bangladesh. Abstracts for the 9th Biennial Conference and Research Fair of Bangladesh Fisheries Research Forum (BFRF) and Universiti Malaysia Sarawak (UNIMAS), 28-29 May, BARC, Dhaka, Bangladesh, 55pp.
6. **Sarker, M. S. A.**, F. Huang, K. Futami, Y. Haga, S. Satoh, T. Wakayama, K. Yamaguchi, and T. Akiyama (2017). Housefly maggot meal as a total replacement ingredient for fish meal in practical diets of rainbow trout, *Oncorhynchus mykiss*. Abstracts for the 1st International GCSTMR Congress, University of Dhaka, February 4-5. Dhaka, Bangladesh, 46pp.
7. Sarker, M. A., Y. Haga, **M. S. A. Sarker**, M. Miwa, Y. Yamamoto, G. Yoshizaki and S. Satoh (2010). Influences of low salinity and dietary fatty acids composition on biosynthesis potency of highly unsaturated fatty acids in red sea bream *Pagrus major*. Abstracts for the 14th International Symposium on Fish Nutrition and Feeding. Qingdao, May 31 to June 4, China, 115pp.
8. Satoh, S., I. Hanini., **M. S. A. Sarker**, Y. Haga, T. Ohkuma and H. Nakayama (2010). Effect of taurine, phytase, and enzyme complex supplementation to low fish meal diet on growth of juvenile red sea bream. Abstracts for the Spring Meeting of the Japanese Society of Fisheries Science, College of Bioresource Sciences, Nihon University, March 26-30, Yokohama, Japan, 21pp.
9. Sarker, M. A., Y. Haga, **M. S. A. Sarker**, M. Miwa, G. Yoshizaki and S. Satoh (2009). Influences of low salinity and dietary fatty acids composition on biosynthesis potency of highly unsaturated fatty acids in red sea bream. Abstracts for the Autumn Meeting of the Japanese Society of Fisheries Science, Iwate Prefecture Citizen's Cultural Exchange Center, Aiina, Morioka, September 30 to October 03. Iwate, Japan, 38pp.
10. **Sarker, M. S. A.**, F. Huang, K. Futami, Y. Haga, S. Satoh, T. Wakayama, K. Yamaguchi and T. Akiyama (2009). Maggot meal as a potential ingredient in practical diets for rainbow trout. Abstracts for the Autumn Meeting of the Japanese Society of Fisheries Science, Iwate Prefecture Citizen's Cultural Exchange Center, Aiina, Morioka, September 30 to October 03. Iwate, Japan, 38pp.
11. Bake, G. G., **M. S. A. Sarker**, M. Endo, A. Akimoto and T. Takeuchi (2009). Effects of high level inclusion of recycled food wastes materials supplemented with lysine, methionine and arginine in the practical diet of Nile tilapia (*Oreochromis niloticus*) juveniles. Abstracts for the Autumn Meeting of the Japanese Society of Fisheries Science, Iwate Prefecture Citizen's Cultural Exchange Center, Aiina, Morioka, September 30 to October 03. Iwate, Japan, 37pp.
12. **Sarker, M. S. A.** M. Toyama, J. Miyahara, Y. Yamamoto, Y. Haga and S. Satoh (2009). Estimation of nitrogen

and mineral budget in low fish meal diet for yellowtail. Abstracts for the Spring Meeting of the Japanese Society of Fisheries Science, Tokyo University of Marine Science and Technology. March 27-31. Tokyo, Japan, 24pp.

13. Satoh. S., **M. S. A. Sarker**, H. Miyashita, S. Sasaki, S. Kudo, T. Tashiro, Y. Yamamoto and T. Miyazaki (2005). Development of eco-friendly aquafeed-VII: Effects of dietary levels of citric acid and amino acid chelated trace element to yellowtail diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Tokyo University of Marine Science and Technology. March 31 to April 4. Tokyo, Japan, 236pp.
14. **Sarker, M. S. A.**, S. Satoh and V. Kiron (2005). Development of eco-friendly aquafeed-VI: Effects of dietary levels of citric acid and amino acid chelated trace element to red sea bream diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Tokyo University of Marine Science and Technology. March 31 to April 4. Tokyo, Japan, 236pp.
15. **Sarker, M. S. A.**, S. Satoh, Y. Yamamoto, K. Satoh and V. Kiron (2005). Development of eco-friendly aquafeed-V: Effect of dietary phosphorus supplementation levels to adult yellowtail diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Tokyo University of Marine Science and Technology. March 31 to April 4. Tokyo, Japan, 236pp.
16. **Sarker, M. S. A.**, S. Satoh and V. Kiron (2004). Citric acid and amino acid- chelated trace element supplement to develop eco-friendly feed for red sea bream, *Pagrus major*. Abstracts for the Eleventh International Symposium on Nutrition and Feeding in Fish. Phuket Arcadia Hotel, May 2-7, Phuket Island, Thailand, 87pp.
17. **Sarker, M. S. A.**, S. Satoh and V. Kiron (2004). Development of eco-friendly aquafeed-III: Effect of citric acid and amino acid-chelated trace element to red sea bream diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Kagoshima University. April 1-4. Kagoshima, Japan, 131pp.
18. Satoh. S., **M. S. A. Sarker**, H. Miyashita, S. Sasaki, S. Matsumoto, V. Kiron, Y. Yamamoto and T. Miyazaki (2004). Development of eco-friendly aquafeed-II: Effects of citric acid and amino acid-chelated trace element to yellowtail diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Kagoshima University. April 1-4. Kagoshima, Japan, 131pp.
19. Satoh. S., **M. S. A. Sarker**, K. Satoh and V. Kiron (2004). Development of eco-friendly aquafeed-I: Effects of dietary lipid and phosphorus levels on excretion of nitrogen and phosphorus in yellowtail diet. Abstracts for the Annual Meeting of the Japanese Society of Fisheries Science, Kagoshima University. April 1-4. Kagoshima, Japan, 130pp.

Paper proceedings (Oral presentation):

1. **Sarker, M. S. A.**, M. N. Islam and M. A. Hossain (2004). Analysis of repeated measurements treatments: Studies on the growth of Thai Sharpunti (*Puntius gonionotus*) fed alternate plant protein diet. In: The Thirteenth Indonesian Scientific Conference in Japan, September 4-5, 2004. Tokyo Institute of Science and Technology, O-okayama campus, Tokyo, Japan, pp 42-48.
2. Islam, N., M. A. Kamal and **M. S. A. Sarker** (1999). Evaluation of course materials of Mathematics courses at Bangladesh Open University: A case study. In: The 13th Annual Conferences, Asian Association of Open Universities, October 14-17, The Central Radio and TV University, Beijing, China, pp 194-204.

Study Material Developed

Books written:

1. Sultana, S., **M. S. A. Sarker**, M. A. Subhan and M. A. Hamid (2021). Integrated Aquacultural Farm 1st paper. A text book (6 credit course book) for the H. S. C. Programme. Open School, Bangladesh Open University, Gazipur-1705, Bangladesh, 282pp.
2. Sultana, S., M. M. Rahman, M.A. Hoque, **M. S. A. Sarker** and M. A. Hamid (2021). Integrated Aquacultural Farm 2nd paper. A text book (6 credit course book) for the H. S. C. Vocational Programme. Open School, Bangladesh Open University, Gazipur-1705, Bangladesh, 297pp.
3. **Sarker, M. S. A.**, I. A. Raza, S.B. Nesa and M. A. Hoque (2016). Agricultural Studies 2nd paper. A text book for the H.S.C. class bases on the syllabus of NCTB. Publishes by Mita traders, Books and Computer Complex,

38/3, Banglabazar, Dhaka 1100. Bangladesh, 276pp.

4. Rahman, A.N.M. A., A.R. Mia, **M. S. A. Sarker**, and M. S. Islam (2014). Agricultural Studies 2nd paper. A text book (6 credit course book) for the H. S. C. Programme. Open School, Bangladesh Open University, Gazipur-1705, Bangladesh, 482pp. ISBN 978-984-34-3114-1.
5. **Sarker, M. S. A.**, Islam, M. A., and M. A. Hossain (1998). Integrated Fish Farm Management. A text book (3 credit course book) for the Certificate in Pisciculture and Fish Processing Programme. Bangladesh Open University, Gazipur-1705, Bangladesh, 191pp. ISBN 984-34-5047-7.
6. Hossain, M. A. and **M. S. A. Sarker** (1998). Harvesting and Processing of Fish. A text book (2 credit course book) for the Certificate in Pisciculture and Fish Processing Programme. Bangladesh Open University, Gazipur-1705, Bangladesh, 145 pp. ISBN 984-34-5050-7.
7. Hossain, M. A. and **M. S. A. Sarker** (1997). Harvesting and Preservation of Fish. A text book (2 credit course book) for the Bachelor of Agricultural Education Programme. Bangladesh Open University, Gazipur-1705, Bangladesh, 164 pp. ISBN 984-34-5029-9.
8. Hossain, M. A., M. A. Hossain and **M. S. A. Sarker** (1998). Fish Hatchery Management. A text book (3 credit course book) for the Bachelor of Agricultural Education Programme.. Bangladesh Open University, Gazipur-1705, Bangladesh, 188pp. ISBN 984-34-5049-3.

Books edited:

9. Chowdhury, M. B. R. and M. A. Islam (1998). Fish Health Care. A text book (2 credit course book) for the Bachelor of Agricultural Education Programme (Ed. by **Sarker, M. S. A.**). Bangladesh Open University, Gazipur-1705, Bangladesh, 168pp. ISBN 984-34-5025-6.
10. Wahab, M. A. and M. A. Islam (1997). Fish Feed and Nutrition. A text book (2 credit course book) for the Bachelor of Agricultural Education Programme (Ed. by **Sarker, M. S. A.**). Bangladesh Open University, Gazipur-1705, Bangladesh, 157 pp. ISBN 984-34-5011-6.
11. Rahman, M. M., M. N. Islam and M. T. Islam (1997). Statistics. A text book (2 credit course book) for the Bachelor of Agricultural Education Programme (Ed. by **Sarker, M. S. A.** and M. N. Islam). Bangladesh Open University, Gazipur-1705, Bangladesh, 192 pp. ISBN 984-34-5013-2.
12. Islam, M. A. and M. S. Alam (1996). Aquaculture and Management. A text book (3 credit course book) for the Bachelor of Agricultural Education Programme (Ed. by **Sarker, M. S. A.**). Bangladesh Open University, Gazipur-1705, Bangladesh, 236 pp. ISBN 984-34-5001-9.

Video and Audio Programs

- **TV/Video Programs:** 16 in total (Fisheries related non formal programs and formal programs of Certificate in Pisciculture and Fish Processing (CPFP) and Bachelor of Agricultural Education (BAgEd) programs of SARD, BOU.
- **Radio/Audio Programs:** 04 in total (Fisheries non formal programs and formal programs of Certificate in Pisciculture and Fish Processing and Bachelor of Agricultural Education programs of SARD, BOU.

Academic and/or Administrative Responsibilities/Duties

- **Member of Academic Council**, Bangladesh Open University from 29/10/2011 to date.
- **Dean**, School of Agriculture and Rural Development, BOU from 28/06/2012 to 01/09/2015.
- **Coordinator of Aquaculture Subject**, MS in Agricultural Sciences, SARD, BOU from 20/04/2017- to date.
- **Member of Master in Sustainable Agriculture and Rural Livelihood (MSARL) Curriculum Committee**, SARD, BOU from 17/01/2017- to date.
- **Member of Agriculture and Rural Development Curriculum Committee**, SARD, BOU.

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- **Course teacher of PhD in Aquaculture, MS in Aquaculture and MSARL Programms of SARD, BOU.**
 - **Research supervisor of the students of PhD in Aquaculture, MS in Aquaculture and MSARL Programms of SARD, BOU.**
 - **Member of Language, Education and Others Curriculum Committee, SARD, BOU.**
 - **Member of Admission Committee of MS in Agricultural Sciences, SARD, BOU.**
 - **Convener of Fisheries Group Sub-Committee for BAgEd Course Books Update.**
 - **Convener of Sub-Committee for CPFP Course Books Update, SARD, BOU.**
 - **Member of Regulation Preparation Committee for the Master in Sustainable Agriculture and Rural Livelihood Program, SARD, BOU.**
 - **Convener of Curriculum and Syllabus Preparation Sub-committee, Sustainable Aquaculture Management Course, Master in Sustainable Agriculture and Rural Livelihood Program, SARD, BOU.**
 - **Convener of Draft Working Paper Preparation Committee to Form Examination Committee in Different Programs of SARD, BOU, Gazipur-1705.**
 - **Coordinator of DYDW Program and CPFP Program, SARD, BOU, Gazipur-1705.**
 - **Ex-coordinator of BAgEd Program, SARD, BOU, Gazipur-1705.**
 - **Member of Agriculture and Rural Development Curriculum Committee, SARD, BOU, Gazipur-1705.**
 - **Member of Laboratory Establishment and Management Committee, SARD, BOU.**
 - **Chairman of Fisheries and Livestock Group Curriculum Committee for BAgEd, CPFP and CLP Programs, SARD, BOU.**
 - **Member of Admission Committee, BAgEd Program, SARD, BOU, Gazipur-1705.**
 - **Member of Draft Regulation Preparation Committee of BAgEd Program, SARD, BOU, Gazipur-1705.**
 - **Member of Draft Regulation Preparation Committee for Demonstrator Appointment of BAgEd Program, SARD, BOU.**
 - **Member of Draft Regulation Preparation Committee, MS in Agriculture Program, SARD, BOU.**
 - **Member of Draft Curriculum and Syllabus Layout Preparation Committee, MS in Agricultural Sciences Program, SARD, BOU.**
 - **Member of Draft Curriculum and Syllabus Layout Preparation Committee, BScAg (Hons.) Program, SARD, BOU.**
 - **Member of the Editorial Board of JARD (Journal of Agriculture and Rural Development), Vol. 5, No. 1&2, SARD, BOU.**
 - **Presenter and an Active Participator of Participatory Workshop on *Promotional Activities and Qualitative Improvement of BAgEd, DYDW, CPFP and CLP Academic Programs*, SARD, BOU.**
 - **Presenter of the Seminar on *Launching Master Degree Program in Sustainable Agriculture and Rural Livelihood* at SARD, BOU.**
 - **Presenter and an Active Participator of Participatory Workshop on *Quality Assurance of Distance Education on Agriculture and Rural Development*, SARD, BOU.**
 - **Presenter and an Active Participator of *Certificate Awarding Ceremony of DYDW*, SARD, BOU.**
 - **Chairman of Examination Committee, BAgEd, CPFP, and DYDW Programs, SARD, BOU.**
 - **Member of Examination Committee, BAgEd, CPFP and DYDW Programs, SARD, BOU.**
 - **Question Setter and Script Examiner of BAgEd, DYDW and CPFP Programs, SARD, BOU, Gazipur-1705.**
 - **Conducting the Orientation and Tutorial Classes at the Different Study Centers of BAgEd Program, SARD, BOU.**
 - **Examination Center Inspection for Conducting the Fair Examination of Different Formal Programs of BOU.**
 - **Preparing and Presenting the Audio-Video Programs.**
 - **Participation in Convocations of BOU, Gazipur-1705.**
 - **Ex-convener of a committee of the 4th Convocation of BOU.**
 - **Ex-member of Academic Planning Committee, BOU.**
 - **Member of School Committee, SARD, BOU.**

Training/Short Course/Workshop (National and International)

1. Successfully completed the “Extension Field Trip Study on Agricultural and Rural development programmes in Kapasia Upazila” organized by Department Agricultural Extension and Teacher’s Training, Bangladesh Agricultural University, Mymensingh, Bangladesh, from February 8, 1992 to February 13, 1992.
2. Successfully completed the “Training of Trainer (TOT)” course organized by Department of Youth Development, Ministry of Youth and Sports, Government of the people republic of Bangladesh, from October 9, 1993 to October 15, 1993.
3. Successfully completed the “Probationary Senior Officers (Animal Husbandry, Fisheries and Agriculture) Training Programme” organized by Sonali Bank Staff College, Ministry of Finance, Government of the people republic of Bangladesh, from September 24, 1994 to October 13, 1994.
4. Successfully completed the “Officers Foundation Course” organized by Sonali Bank Staff College, Ministry of Finance, Government of the people republic of Bangladesh, from July 7, 1996 to August 17, 1996.
5. Successfully completed the “Spoken English Course” from National Youth Training Academy, Ministry of Education, Government of the people republic of Bangladesh, in the year 1996.
6. Successfully completed the “GIS Hardware and Maintenance” jointly organized by MICROCEL Computers Ltd and Bangladesh Open University, Bangladesh, from December 20, 1999 to December 21, 1999.
7. Successfully completed the “Orientation Training Course on GIS (PC Arc/Info, ArcView and Erdas Imagine)” jointly organized by CIPROCO Computers Ltd and Bangladesh Open University, Bangladesh, from December 22, 1999 to January 02, 2000.
8. Successfully completed the “Computer Course on Windows, MS Word, MS Excel, Fox pro 2.6, Visual basic, C++, C programming language”. Obtained Grade A+ (Excellent). Computer Media and Institute of Information Technology, Dhaka, Bangladesh. June 5, 2000.
9. Successfully completed the “Capacity Building for ODL Materials” under the auspices of the Bangladesh Open University, Bangladesh, from March 12, 2006 to March 19, 2006.
10. Successfully completed the “Training Programme on Instructional Design” jointly organized by Open School of the Bangladesh Open University, Bangladesh, Campaign for Popular Education (CAMPE) and the Commonwealth of Learning (COL), Canada, from May 7, 2006 to May 11, 2006.
11. Successfully completed the “Tutors Training workshop” jointly organized by Bangladesh Open University, Bangladesh, and the Commonwealth Youth Programme, CYP Asia Center, Chandhighar, India, March 27, 2007 to March 29, 2007.
12. Successfully completed the “Training programme on molecular biology specially DNA and RNA extraction, purification, cloning and sequencing” organized by Laboratory of Fish Nutrition, Tokyo University of Marine Science and Technology, Tokyo, Japan. April 9, 2008 to April 18, 2008.
13. Successfully completed the “Tutor Training workshop” jointly organized by Bangladesh Open University, Bangladesh, and the Commonwealth Youth Programme, CYP Asia Center, Chandhighar, India, May 27-29, 2010.
14. Successfully completed the workshop on “Creative Methodology of Teaching and Learning” organized by Bangladesh Open University, Bangladesh, December 26-28, 2011.
15. Successfully completed the training workshop titled “Online Journal for BanglaJOL Editors” jointly organized by Bangladesh Academy of Science and Faculty of Science, Rajshahi University, Rajshahi, Bangladesh November 17-19, 2012.
16. Successfully completed the training program on “ICT and e-Learning System” jointly organized by Bangladesh Open University, Bangladesh, and Korea International Cooperation Agency, Bangladesh, May 15-28, 2013.
17. Successfully completed the strategic workshop on “e-Learning platform for Bangladesh” jointly organized by McWeldon Education, USA, Bangladesh Open University, and Access to Information (a2i) Programme, Prime Minister’s Office, Bangladesh, Bangladesh, May 28, 2014.
18. Successfully completed the workshop on “E-Learning-Use of Moodle Level-1” Jointly organized by IUBAT-International University of Business Agriculture and Technology, Bangladesh, and Knowledge Globalization Institute, Boston, USA, Dhaka, Bangladesh, February 25, 2018.
19. Successfully completed the training course on “Oceanography: Principles and Applications” at National Oceanography and Maritime Institute (NOAMI), Dhaka starting from 02 April 2022, for 12 weeks.
20. Successfully participated on international symposium on “Healthy Mangroves and Sustainable Fisheries for Climate Resilient Coastal Community in South Asia” jointly organized by Fisheries and Marine Resource Technology (FMRT) Discipline, Khulna University, Bangladesh Environment and Development Society (BEDS) and Global Fund (GNF), Khulna University, Bangladesh, March 1-3, 2023.

International Special Institutions attended and courses taken, and completion of research

1. Successfully completed the graduate course “Research Seminars in Zoology” Course code 92-664 for the Fall semester (August 1998 to December 1998) from the department Zoology, University of Guelph, Guelph, Ontario, Canada.
2. Successfully completed the senior undergraduate course “Fundamentals of Nutrition” Course code 71-321 for the Fall semester (August 1998 to December 1998) from the department of Human Biology and Nutritional Science, University of Guelph, Guelph, Ontario, Canada.
3. Successfully completed the following research as a visiting scientist from July 1998 to December 1998 under the direct supervision of Professor Dr. David L.G. Noakes, Hagen Aqualab, Axelrod Institute of Ichthyology, Department of Zoology, University of Guelph, Guelph, Ontario, Canada:
Studies on the growth and development of skeletal system of mangrove killifish (*Rivulus marmoratus*)
Effects of salinity on the growth and development of skeletal system of mangrove killifish (*Rivulus marmoratus*)
Studies on the growth and development of skeletal system of zebra fish (*Danio rerio*)
Effects of temperature on the growth and development of skeletal system of zebra fish (*Danio rerio*)
4. Successfully completed the Training Programme on “Introduction to Distance Education Technology” from July 1998 to December 1998 organized by Office of Open Learning, University of Guelph, Guelph, Ontario, Canada.
5. Successfully completed the “Japanese Language Course” commencing from October 2000 to September 2001 at the Sakurakai Japanese Language School, Minato City Women’s Center, Tamachi, Minato, Tokyo, Japan.
6. Successfully completed the course “Introduction to statistical Analysis” offered jointly by Commonwealth Educational Media Centre for Asia (CEMCA) and Kilanga Institute of Social Science (KISS), India commencing from 01 May, 2021 to 10 June, 2021.

Personal Information

- **Name:** Dr. Md. Shah Alam Sarker
- **Father’s Name:** Md. Sirajul Haque Sarker
- **Mother’s Name:** Mohsina Begum
- **Date of Birth:** June 15, 1968
- **Religion:** Islam (Sunni)
- **Marital Status:** Married and have two children
- **Nationality:** Bangladeshi (by birth)
- **Designation:** Professor of Fisheries, School of Agriculture and Rural Development, Bangladesh Open University, Gazipur-1705. Bangladesh.
- **Mailing address:** Professor of Fisheries and Former Dean, School of Agriculture and Rural Development (SARD), Bangladesh Open University, Gazipur-1705. Bangladesh.
- **Permanent address:** Village-Uttar Krishnapur, P.O.-Eliotgonj, Post Code-3519, Upazila-Chandina, District-Cumilla, Bangladesh.

Countries visited

- Canada, United States of America, United Kingdom, Japan, India, Thailand, China, South Korea, Malaysia, The Republic of Singapore, United Arab Emirates and The Kingdom of Saudi Arabia

Other academic and social works

- Thesis Examiner, MS in Aquaculture, Khulna University, Khulna and University of Rajshahi, Rajshahi.
- Examiner, B.Sc. (Hons.) in Environmental Science, Moulana Vaswani Science and Technology University, Santush, Tangail, Bangladesh.
- Member, Curriculum Committee and Examination Committee, B. Sc, Fisheries (Hons.), MS in

Aquaculture, PhD. in Aquaculture, University of Rajshahi, Rajshahi, Bangladesh.


- Education Secretary, Chandina Youth Welfare Association, Dhaka, Bangladesh (1996-2000).
- Joint Secretary and General Secretary (in-Charge), Executive Committee, Bangladesh Open University Teachers' Association (2000).
- Life member, Chandina Welfare Association and Cumilla Association, Dhaka, Bangladesh.
- Member, Executive Committee, Bangladesh Fisheries Research Forum (BFRF), Bangladesh (2016-2018 and 2020-2021).
- Secretary, Section IX, Executive Committee, Bangladesh Association for the Advancement of Science (BAAS), (2021-2022).

Member of professional and learned bodies

- Life member, Bangladesh Fisheries Research Forum (BFRF), Bangladesh.
- Life member, Bangladesh Krishibid (Agriculturists) Institution (KIB), Bangladesh.
- Life member, Japanese Universities Alumni Association in Bangladesh (JUAAB), Bangladesh.
- Life member, Tokyo International Exchange Center (TIEC) Alumni Association, Japan.
- Member, The Japanese Society of Fisheries Science (JSFS), Japan.
- Member, Canadian Alumni Association of Bangladesh (CAAB), Bangladesh.
- Life member, Bangladesh Association for the Advancement of Science (BAAS), Bangladesh.
- Life member, National Oceanographic And Maritime Institute (NOAMI), Bangladesh.
- Editor, Bangladesh Open University Journal of Agriculture and Rural Development (BOUJARD), Bangladesh.
- Member, Editorial Board of the Journal of Agriculture and Rural Development (JARD), Bangladesh.

References

- Professor Dr. Md. Motahar Hossain Mandal (Rtd.), Former Vice-Chancellor of Haji Mohammad Danesh Science and Technology University, Dinajpur and Former Professor, Department of Parasitology, Faculty of Veterinary Science, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh. Phone: 01716-044362.
- Professor Dr. Md. Abdul Huq (Rtd.), Former Professor and Dean, Department of Animal Science, Faculty of Animal Husbandry, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh. Phone: 01711-044587.
- Professor Dr. Md. Abdur Rashid, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka -1000, Bangladesh. Email: rashidma@du.ac.bd, Mobile (Dept): 01711-947741, Ext. (Dept): 88-09-666-911463, Mobile (Personal): 01711-947741.
- Professor Dr. Shuichi Satoh, Chairperson, Laboratory of Fish Nutrition, Department of Marine Biosciences, Tokyo University of Marine Science and Technology, Konan 4 - 5 -7, Minato, Tokyo 108 - 8477, Japan. Phone: 81 - 3 -5463 -0557, Fax: 81 - 3 -5463 -0553.
- Professor Dr. Viswanath Kiron, Faculty of Biosciences and Aquaculture, Bodø University College, Bodø 8049, Norway. Phone: 47 - 7551 -7399 Fax: 47 - 7551 -7349.



(Professor Dr. Md. Shah Alam Sarker)