

Curriculum Vitae of Prof. Dr. Md. Abdus Salam

Personal Information

Name : Md. Abdus Salam
Nationality : Bangladeshi
Date of Birth : December 12, 1968
Place of birth : Shariatpur, Bangladesh
Civil status : Married

Mailing address

Street No : Department of Aquaculture, Bangladesh Agricultural University
City, Zip code : Mymensingh, 2202
Country : Bangladesh
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Position Hold

: Professor, Department of Aquaculture, Bangladesh Agricultural University, Mymensingh

Present Employer

: Registrar, Bangladesh Agricultural University, Mymensingh

Field of Interest

: GIS modelling for land suitability, land use, land use change detection, image interpretation, fish breeding, climate change adaptation and Integrated Multi-Trophic Aquaculture (IMTA)

Key Qualifications

Dr M A Salam has more than 16 years professional experience in fisheries and aquaculture teaching, fish breeding, fish culture and open water management, climate change adaptation, Integrated Multi-Trophic Aquaculture (IMTA) and implementation of research and project activities in different fields of socio-economic development. He has more than 29 publications to his credit. He attended a numbers of national and international workshop and conferences and played active role. He was involved in Implementation of various programmes of fisheries management and aquaculture development and environment related research/survey; identify/assess problems in rural sectors; He has vast experience in assessing students and their needs, designing course curriculum, preparing training handbook, facilitator guide and assisting the Faculty Members of the department of Aquaculture in implementing training programs/workshops/ seminars for the officials of government and semi-government organizations and NGOs. Mr. Salam was involved as Core Team Member for conducting Sub-Regional Study on Fisheries and Environment under the project Integrated Planning for Sustainable Water Management (IPSWAM) in southwestern region of Bangladesh and Future Fisheries Potential of Bangladesh of DANIDA and DFID founded project respectively. He has experience of land use and land suitability for shrimp, crab and various fish species in coastal areas of Bangladesh, especially in south-west region. He was also involved as a core Team member of implementing the work of Impact of Fish Farmer Group through Greater Noakhali Aquaculture Extension Project (GNAEP), and Baseline and Impact study of Pro-Poor Initiatives through Greater Noakhali Aquaculture Extension Project (GNAEP), DANIDA funded project in Noakhali District. He has vast

experience regarding reporting, qualitative research and reporting writing.

Education

Post doctoral research on impact of climate change and adaptation, Ecosystem Science and Management Department, Texas A & M University, Texas, USA, 2011.

Doctor of Philosophy (PhD) in Aquaculture, Institute of Aquaculture, University of Stirling, Scotland, UK, 2000

Thesis title: The Potential of GIS-based Modeling for Aquaculture Development and Management in South Western Bangladesh.

M.S. in Aquaculture, Department of Aquaculture and Management, Bangladesh Agricultural University, Mymensingh, Bangladesh, 1990 (held in 1994).

Thesis title: Hybridization between magur, *Clarias batrachus* Lin. and shingi, *Heteropneustes fossilis* Bloch.

Bachelor of Science (BSc) in Fisheries (Honors), Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, Bangladesh, 1989 (held in 1992).

Publications

Mollah, M. B. R., M. A. Hasan, M. A. Salam and M. A. Ali. 2010. Digital Image Analysis to Estimate the Live Weight of Broiler. *Computer & Electronics in Agriculture*. Accepted for publication.

Ferdous, J. and **M. A. Salam**. 2009. Feasibility of Fresh Water Prawn (*Macrobrachium Rosenbergii*) Hatchery Establishment In Faridpur Sadar Upazilla Using GIS Tools. *J. Environ. Sci. & Natural Resources*, 2(2):95-102.

Molla, M. A. G., M. R. Islam¹, S. Islam and **M. A. Salam**. 2009. Socio-economic status of crab collectors and fatteners in the southwest region of Bangladesh. *J. Bangladesh Agril. Univ.* 7(2): 411-419.

Alam, M. S., F. A. Flowra, **M. A. Salam**, A. K. M. A. Kabir and M. H. Rahman. 2009. Study on the ecological Factors and Fisheries Fauna of Basantapur beel at Lalpur Upazila under Natore District. *Bangladesh J. Agriculturist*. 2(1):21-28.

Alam, M. S., F. A. Flowra, **M. A. Salam**, A. K. M. A. Kabir and H. Ali. 2009. Fishing gears, fish marketing and livelihood status of poor fishermen around the Basantapur beel at Lalpur Upazila. *J. Agrofor. Environ.* 3(1):173-177.

Alam, M. S., **M. A. Salam**, I. C. Sarker, H. Ali and M.O. U. Mollah. 2009. Water loading for live fish transportation and socio-economic status of water loading station owners in three upazillas of Mymensingh district.

Bashar, M. A., **M. A. Salam**, M. M. Kamal, M. A. B. Siddique and M. S. Mofasshalin. 2009. Present biodiversity status of freshwater catfishes at the Barnai river of Rajshahi district. *J. Environ. Sci. & Natural Resources*, 2(1):77-82.

Ali, M. H., **M. A. Salam**, M. H. Rashid, A. C. Barman and M. A. Bashar. 2008. Fish culture in ponds by using bio-gas slurry and raw cow dung in carp polyculture system. *J. Agrofor. Environ.* 2(2):151-154.

Bashar, M. A. M. H. Ali, **M. A. Salam**, M. E. Ahsan and S. Islam. 2008. Status of pond fishery resources and socio-economic condition of fish farmers of Paba upazila in Rajshahi district. *J. Bangladesh Soc. Agric. Sci. Technol.*, 5 (1 & 2): 97-100.

Asaduzzaman, M., M. A. Wahab, M.C.J. Verdegem, S. Huque, **M.A. Salam**, M.E. Azim. 2008. C/N ratio control and substrate addition for periphyton development jointly enhance freshwater prawn *Macrobrachium rosenbergii* production in ponds.

- Sarkar, R., M. H. Ali, M. A. Hossain, **M. A. Salam**, and F. Ahmed. 2008. Species composition, fishing gears and socio-economic status of the local fishermen of the 'Mokash beel' of Kaliakoir upazila under Gazipur district. *J. Agrofor. Environ.* 2(1):49-54.
- Salam, M. A.** 2007. Environmental and Socio-economic disaster due to Farakka Barrage in Bangladesh- a Remote Sensing and GIS evaluation. *J. Agrofor. Environ.* 1(2):119-125.
- Salam, M. A.**, L. G. Ross and C. M. C. Beveridge. 2007. The use of GIS and remote sensing techniques to classify the Sundarbans mangrove vegetation. *J. Agrofor. Environ.* 1(1):7-15.
- Salam, M. A.**, B. G. Paul and N. A. Khatun. 2007. Assessment of prawn farming potential at Muktagachha Upazila using GIS. *Bangladesh J. Agril. Sci.* 34 (2):99-107.
- Mahaboob, M.G., G. M. M. Rahman, M. J. Islam, and M. A. Salam. 2007. Estimation of area under Agroforestry practices in Madhupur Sal Forest using remote sensing. *J. Agrofor. Environ.* 1(1):95-101.
- Asaduzzama, M., **M. A. Salam**, M. A. Wahab, M. Kunda, and M. B. Rahman. 2007. Effect of control of C/N ratio by low-cost carbohydrate addition on the water quality and pond ecology in freshwater prawn *Macrobrachium rosenbergii* post larvae nursing system. *Bangladesh J. Fish. Res.*, 10 (2):121-130.
- Salam, M. A.**, Khatun, N. A. and B. G. Paul. 2006. Establishment of a carp hatchery in Barhatta Upazilla, Netrokona district through GIS modelling technique. *Progress. Agric.*, 17 (1):157-166.
- Aktaruzzaman, M., **M. A. Salam**, M. J. Alam, H. Demaine and K. G. Uddin. 2006. PL Nursing: A case study of GNAEP pro-poor intervention for improving livelihood of the women headed households in caar areas of Noakhali district. *Progress. Agric.*, 17 (1):325-338.
- Salam, M. A.**, T. A. Mukta, N. A. and M. A. Rahman. 2006. Delineation of optimum site for tilapia culture in Sribardi Upazilla, Sherpur incorporating Expert Opinion, Multi Criteria Decision Making and Geographical Information System techniques. *Progress. Agric.*, 17 (2):133-142.
- Salam, M. A.** N. A. Khatun and M. M. Ali. Carp farming potential in Barhatta Upazilla, Bangladesh: a GIS methodological perspective. *Aquaculture*, 245(1-4): 75-86, March, 2005.
- Salam, M. A.** and Momotazunnesa. 2005. Carp culture potential through GIS technique in Mymensingh Sadar Upazilla. *Progress. Agric.*, 16 (1):167-176.
- Salam, M. A.** and A. Karmokar. 2005. Integrating ES, MCDM and GIS to determine optimum site for carp hatchery establishment in Shariatpur Sadar Upazilla. *Bangladesh J. fish.* 29 (1-2):33-42.
- Salam, M. A.**, M. K. Hossain, and M. A. Hossain. 2004. An assessment of the cage culture potential in Bhaluka Upazilla : A GIS approach. *Bangladesh J. fish.* 28 (1-2):127-135.
- Salam, M. A.**, L. G. Ross and C. M. C. Malcolm. 2003. A comparison of development opportunities for crab and shrimp aquaculture in South-western Bangladesh, using GIS modelling. *Aquaculture*, 220(1-4):477 - 494.
- Salam, M. A.**, N. A. Khatun and B. G. Paul. 2002. Evaluation of land suitability for Prawn Hatchery Establishment in Barhatta Upazilla: A GIS Methodological Perspective. *Bangladesh J. fish.* 25 (1-2):11-22.
- Salam, M. A.**, M. A. Taher, M. A. R. Hossain, M. R. Amin and M. M. Haque. 2002. Density Dependent Growth of Fresh Water Prawn, *Macrobrachium rosenbergii* in Static and

Recycle System. Progress. Agric, 13 (1-2):99-107.

- Haque, M. M., N. T. Narejo, **M. A. Salam**, S. M. Rahmatullah and M. A. Islam. 2003. Determination of optimum stocking density of *Macrobrachium rosenburgii* in carp polyculture in earthen pond. Pak. J. Bio. Sci. 6 (10): 898-891.
- Salam, M. A.**, Lindsay, G. Ross and Malcolm, C. M. C. 2000. Eco-tourism to protect the reserve mangrove forests the Sundarbans and its flora and fauna. Anatolia, Vol. 11(1): 56-66.
- Scott, Philip C. and **M. A. Salam**. 1999. Bangladesh prospera com criacao de *Macrobrachium rosenbergii* (in Portuguese). Panorama da AQUICULTURA, Vol. 9(52):25-31.
- Das, A. C., M. A. Islam, S. M. Rahmatullah and **M. A. Salam**, 1998. Larval development and survivality of bull frog fry, *Rana tigrina* Daudin. Bang. J of Agril. Sci. 25(1): 69-75.
- Islam, M. A., S. M. Rahmatullah and **M. A. Salam**. 1996. Effect of food and stocking density on the rearing of shingi (*Heteropneustes fossilis*) fry. Bang. J. of Anim. Sci. 25(1-2) 73-78.
- Salam, M. A.**, M. A. Islam, S. M. Rahmatullah, S. R. Gubhagu (1995). Hybridization between magur, *Clarias batrachus* Lin. and shingi, *Heteropneustes fossilis* Blo. Bang. J. of Agril. Sci. 23(2): 147-152.
- Rahmatullah, S.M., M. Nurunnabi, and **M. A. Salam**. 1995. Studies on the food and feeding habits and electivity indices of young freshwater cyprinid mola, *Amblypharyngodon mola*. Bang. J. of Agril. Sci. 24(2):81-86.

Abstract published

- M. A. Salam**. 2009. Assessment of tilapia farming potential at Muktagachha Upazila using GIS as a tool. BAU Res. Prog. 19:83p.
- M. A. Salam** and K. D. Tapos. Resource mapping and its potential uses for tilapia farming in Phulpur Upazilla, Mymensingh district using GIS as a tool. BAU Res. Prog. 19:84p.
- M. A. Salam**. 2009. Integrating GIS and Remote Sensing to delineate best place for crab culture in Coastal region of Bangladesh. BAU Res. Prog. 19:84p.
- Asaduzzama, M., M. O. U. Mollah, S. Huque, M. A. Wahab, **M. A., Salam**, and M. C. J. Verdegem. 2008. Effect of ratio C/N control on production of freshwater prawn *Macrobrachium rosenbergii* in ponds: Is Additive to Substrate Addition for Periphyton Development. Book of Abstract: Bangladesh Fisheries Research Forum, 28p.
- Salam, M. A.**, M. S. Hossain and A. M. H. B. Tareque. 2006. Studies on the present and future potential of molluscs, dry fish and crab in Bangladesh coast: A GIS methodological perspective. In- Islam, M. A., K. Ahmed and M. Aktaruzzaman editted: Value chain analysis and market assessment of coastal and marine aquatic products of Bangladesh. Proceedings by Bangladesh Fisheries Research Forum (BFRF), 191-210p.
- Salam, M. A.** and K. D. Tapos. 2006. Resource mapping and its potential uses for tilapia farming in Phulpur Upazillz, Mymensingh district using GIS as a tool. BAU Res. Prog. 17:75-75.
- Salam, M. A.** and Sonjoy Bian. 2005. GIS based modeling for sustainable aquaculture development in Mymensingh district. International Conference on Geography and Environment Issues and Challenges. Held on 9-11 December 2005, Dhaka, Bangladesh, Bangladesh Geographical Society Golden Jubilee, 126p.
- Salam, M. A.**, Anne Karmokar and Tanjina Afrin Mukta. 2004. Potential access rights and

governance of the poor communities for harvesting and culture of mollusks, in Bangladesh coast. 7th Asian Fisheries Forum 04, the International Meeting of the Asian Fisheries Society, held in 28th November to 6th December 2004, Penang, Malaysia, 9p.

Salam, M. A., Sonjoy Bian and M. A. Hossain. 2005. Suitable sites for sustainable aquaculture development in Mymensingh, Bangladesh: A GIS methodological perspective. Bangladesh J. Fish. Res., Special Issue 9 (1):59-60p

Salam, M. A., Sonjoy Bian and M. A. Hossain. 2005. Sustainable aquaculture development in Mymensingh district: A GIS methodological perspective. BAU Res. Prog. 15:86p

Wahab, M. A. A. M. Shahabuddin, **M. A. Salam** and M. A. R. Hossain. 2004. Assessment of distribution, abundance and standing crops of green mussel (*Perna viridis*), clam (*Meretrix meretrix*) and oyster (*Crassostrea* spp) and their harvest as a potential alternative livelihood option for coastal communities. Bangladesh J. Fish. (Special Issue, 2004) 27:35-36p

List of Popular Articles

Salam, M. A. 2005. GIS and Remote Sensing Education for Sustainable Recourses Management. Fisheries of Current Millennium-Souvenir : Fisheries Graduate Association of Bangladesh (FAB), 47-50 p.

Article in CABI Compendium

Case study- Potential of Seaweed culture on St. Martin's Island. Aquaculture Compendium, 2006 Edition. Web page: www.cabicompendium.org/ac

Case study- Eco-tourism. Aquaculture Compendium, 2006 Edition. Web page: www.cabicompendium.org/ac

Conferences Attended and Course Taken

Salam, M. A., M. S. Alam, M. A. Bashar and Jianbang Gan. 2011. Climate Change and Fisheries in Bangladesh: Impact and Adaptation. CIMR Climate Information for Managing Risks – Local to regional adaptation and mitigation strategies, organized by Florida University, on May 24-27, 2011, venue Caribe Royal, Orlando, USA.

Salam, M. A., Neil Handisyde and Lindsay G Ross. 2010. Spatial Perspective of Changing Climate and its Impacts on Aquaculture in Bangladesh. 4th Biennial Fisheries Conference and Research Fair 2010 of BFRF, held on 20-21 January 2010, BARC, Dhaka, Bangladesh.

Hossain, M. A. R., **M. A. Salam**, M. A. Hossain, K. A. Huq, and S. Dewan. 2010. Fish Culture in Ponds and Rice Fields by Poor Adivasi Households in Northwest and Northern Bangladesh: Performances Evaluation and Livelihood Aspects. 4th Biennial Fisheries Conference and Research Fair 2010 of BFRF, held on 20-21 January 2010, BARC, Dhaka, Bangladesh.

Sayed, M. A. **M. A. Salam** and M. A. R. Hossain. 2010. Study on Present Status of Chalan Beel and its Ecosystem Diversity through Remote Sensing (RS) and Geographical Information Systems (GIS) Tools. 4th Biennial Fisheries Conference and Research Fair 2010 of BFRF, held on 20-21 January 2010, BARC, Dhaka, Bangladesh.

Alam, M. S. and **M. A. Salam**. 2009. Impact of Climate Change on Hatchery, Nursery and Aquaculture operation in selected Upazila of Mymensingh District. Paper presented in the workshop on Impacts of Climate Change on Livelihoods Agriculture, Aquaculture and Fisheries Sector of Bangladesh, held on October 1, 2009, Bangladesh Agricultural University, Mymensingh. Proceedings: 7-16.

- Bashar, M. A. and **M. A. Salam**. 2009. Impacts of climate change on livelihood of fishermen communities in northern region of Bangladesh. Paper presented in the workshop on Impacts of Climate Change on Livelihoods Agriculture, Aquaculture and Fisheries Sector of Bangladesh, held on October 1, 2009, Bangladesh Agricultural University, Mymensingh. Proceedings: 28-37.
- Handisyde, N., **M. A. Salam** and L. G. Ross. 2009. Use of Landsat ETM+ and MODIS Data for Investigating Land Use and Surface Water Distribution in Bangladesh as Part of a Wider GIS Based Assessment of Aquaculture Potential under a Changing Climate. Paper presented in the workshop on Impacts of Climate Change on Livelihoods Agriculture, Aquaculture and Fisheries Sector of Bangladesh, held on October 1, 2009, Bangladesh Agricultural University, Mymensingh. Proceedings: 38-46.
- Salam, M. A.**, Neil Handisyde Lindsay G Ross. 2008. Spatial aspects of climate change and effect on aquaculture in Bangladesh. 29th Asian Conference on Remote Sensing. Held on 10 - 14 November 2008, Galadari Hotel, Colombo, Sri Lanka. Paper can be found in the Web: <http://survey.gov.lk/acrs2008/>
- Salam, M. A.**, M. Asaduzzaman and M. A. Wahab. 2008. Effects of Low-Cost Carbohydrate Addition on Production Performance of Freshwater Prawn (*Macrobrachium Rosenbergii*) in Pond Nursing System. Funded by BFRF, paper presented in 3rd conference, organized by Bangladesh Fisheries Research Forum in DARC Auditorium, Dhaka, held in June 18-19, 2008.
- Salam, M. A.** 2007. Impact of Farakka Barrage on the Environment and Socio-economic condition of Bangladesh. Paper presented in the conference “Delta 2007, Managing the Coastal Land-Water Interface in Tropical Delta Systems”, held on 7-9 November 2007, Bang Sean, Thailand.
- Salam, M. A.** and Sonjoy Bian (2005). GIS study in Mymensingh region for sustainable aquaculture development and inland fisheries management, Paper presented in BFRI, Mymensingh, jointly organized by WorldFish Center and Bangladesh Fisheries Research Institute, held on 10 June 2005, Mymensingh, Bangladesh.
- Salam, M. A.** and Sonjoy Bian (2005). GIS modeling for aquaculture development and in Mymensingh, Paper presented in the conference at Dhaka organized by Bangladesh Geographical Society, held on 9-11 December 2005, Dhaka, Bangladesh.
- Salam, M. A.**, Anne Karmokar, Tanjina Afrin Mukta and M. A.R. Hossain (2004). Potential access rights and governance of the coastal poor communities for harvest and culture of mollusks in Bangladesh coast. Paper presented 7 Asian Fisheries Forum, held in 28th November to 6th December 2004 in Equatorial Hotel, Penang, Malaysia.
- Salam, M. A.**, Anne Karmokar and Tanjina Afrin Mukta (2004). Identify the potential access rights and governance of the poor and landless in the coastal communities who are engaged in the culture and harvesting of molluscs, shrimp PL nursing and mud crab-fattening activities, funded by SUFER (Support for University Fisheries education and Research), Department for International Development, Paper presented in 1st conference, organized by Bangladesh Fisheries research Forum in Bium Auditorium, Dhaka, held in June 1-19, 2004.
- Salam, M. A.**, Ross, L. G. and Malcolm, C. M. C. (2002). Evaluation of Land Suitability for Crab culture: A Methodological Study using GIS. Paper presented in the Map Asia 2002 conference held on 7-9 August 2002, Bangkok, Thailand, CD Proceedings. Paper can be found in the Web [http://www.gisdevelopment.net /application](http://www.gisdevelopment.net/application)

M. A. Salam, and Lindsay G. Ross (2000), Optimizing sites selection for development of shrimp (*Penaeus monodon*) and mud crab (*Scylla serrata*) culture in Southwestern Bangladesh. Paper presented at Thirteenth Annual Conference on Geographic Information systems held on 1-4 March 1999 in Toronto, Canada, CD Proceedings.

Salam, M. A. and Lindsay G. Ross (1999): GIS modelling for aquaculture in South-western Bangladesh: Comparative production scenarios for brackish water and freshwater shrimp and fish. Paper presented at Fourteenth Annual Conference on Geographic Information systems, held in 13-16 March 1999 in Pan-Pacific Hotel, Vancouver, B. C., Canada, 141-145 pp

Salam, M. A. and Lindsay G. Ross (1999): Resource allocation for brackish water shrimp culture in South-western Bangladesh using GIS modelling tools: Paper presented at an International conference on Mangrove ecosystem research methodology held on 26-29 January, 1999 in Khulna University, Khulna, Bangladesh. Proceedings: 41-56 (2003)

Scott, Philip C., Lindsay G. Ross and **M. A. Salam.** (1998): A modelling white shrimp fishery distribution for Sebetiba Bay, Brazil. Paper presented at GIS Planet 98, held on 15-18 September 1998 in Lisbon, Portugal, CD Proceedings.

Salam, M. A. 1999. GIS modelling for aquaculture in South-western Bangladesh. Presented a poster in the Coast GIS'99 in Brest, France and held on 9-11 September 1999.

Attended in the conference of GISRUUK'97 in the Edinburgh University, Scotland, UK, held on June 1997.

Workshop and Seminar Attended

Attended in 29th Asian Conference on Remote Sensing held on 10 - 14 November 2008, Galadari Hotel, Colombo, Sri Lanka and worked as **Chairperson** in two oral sessions entitle "**Airborne Sensing and GPS**" and "**Geo-hazards/ Disasters**" in technical session 12 and 30 on 11 November and 13 November 2008.

Attended in "Advanced GIS and Bayesian Network Training Workshop and Recommendation Domains (RD) Project", held on 13 - 22 February 2008, Zomba, Malawi, organized jointly the Worldfish centre and Department of Fisheries, Malawi.

Attended in "Review Meeting of Distance Learning Course between University of Stirling, UK and BAU, Mymensingh" held at the University of Stirling, UK from 19 to 28 January 2008

Attended in "Planing and Designing of New Distance Learning Course between University of Stirling, UK and BAU, Mymensingh" held at the University of Stirling, UK from 6 January to 14 February 2005.

Attended in a Livelihood Workshop held at "M. V. Aboshar" on 18-25 March 2002 and work to improve the livelihood of the fishing and non fishing communities in Eklashpur village, Matlab thana, Chandpur, organised by SUFER project of DFID.

Attended in a Research proposal-writing workshop for National and International level at Srimongal, facilitated by Dr. Amrit Bert from AIT Thailand, on 6-16 April 2002, organised by SUFER project of DFID.

Attended in a Teaching Methodology Development workshop at AIT, Thailand on 6-25 May 2002, jointly organised by SUFER project of DFID and AIT, Thailand.

Carried out a survey on “Current status and future potential of seaweed culture in Bangladesh coast especially in the St. martin’s Island” in March – April 2002, organised by Department of Fisheries Management, funded by NORAD.

Visited Wageningen University, the Netherlands on 27 June to 5 July 1999 and gave a seminar entitle “GIS modeling for aquaculture development in South-western Bangladesh”.

Attended in an Image Processing workshop in Oxford University, on 8-10 June 1999 organised by Forestry Department, Oxford University, UK.

Attended in a GIS workshop in the Department of GIS, Metropolitan University, Manchester, UK. Arranged jointly by the GIS Department of Metropolitan University, Manchester and Clark University, Massachusetts, USA, held on 8-11 June 1997.

Experience Record

Since July 2009 to date Professor, Department of Aquaculture, Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, Bangladesh,

Since January 2007 to date Visiting Professor at Mowlana Vashani Science and Technology University (MVSTU), Tangail, Working as a visiting professor at Moulana Vashani Science and Technology University, Tangail

Since March 2005 to date Recognized Tutor, Web based MSc program running by the Institute of Aquaculture, University of Stirling, Scotland, UK, and Bangladesh Agricultural University, Mymensingh, Bangladesh, funded by Commonwealth Scholarship Commission

From July to October 2001 Administrator, Assistant Proctor, Bangladesh Agricultural University, Mymensingh, Bangladesh

From November 2000 - July 2005 Assistant Professor, Department of Aquaculture, Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, Bangladesh

From September 1995 – Nov. 2000 Lecturer, Department of Aquaculture, Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, Bangladesh

1999 - 2000 Teaching Assistant, Institute of Aquaculture, University of Stirling, Scotland, UK

Research Scientist,

Intermittent input (2003 to May 2007). Department of Aquaculture, Bangladesh Agricultural University, Mymensingh, Bangladesh,

Department of Aquaculture Bangladesh University Grants Commission, Dhaka, Bangladesh,

Department of Aquaculture, Bangladesh Fisheries Research Forum (BFRF)

Department of Aquaculture, Bangladesh Fisheries Research Forum (BFRF)

Department of Aquaculture, Support for University Fisheries Education and Research (SUFER), Department for International Development (DFID)

Department of Aquaculture, WorldFish center, Bangladesh.

Co-Research Investigator,

Department of Aquaculture, the Ministry of Science and Information and Communication Technology, Government of the People's Republic of Bangladesh.

Department of Aquaculture, Bangladesh Fisheries Research Forum (BFRF)

Department of Aquaculture, the Ministry of Science and Information and Communication Technology, Government of the People's Republic of Bangladesh.

Department of Aquaculture, Funded by Overseas Development Administration (ODA).

Post Doctoral Research

Postdoctoral research focused on climate change which emerges as a major threat to both natural ecosystems and human livelihoods in Bangladesh, one of the most vulnerable countries in the world. The fisheries and aquaculture sectors are most susceptible to climate change on which millions of fishermen livelihoods depended, creating challenges to the sustainability of fisheries and the fish farming communities in the country. The study also concentrated on the factors which impacted the sectors like temperature and rainfall fluctuation, prolonged drought, delayed winter and summer seasons, intensity of storms, physical properties of the water bodies, and quality and availability of water and the ecosystems. The study highlighted how climate change induced disease prevalence hampered cultural and natural fish species, fish mortality, fish production and make the traditional fishermen livelihood vulnerable. In addition, study emphasized how hatchery, nursery and fish culture operation hampered by climate change induced factors. The study also dealt with the possible adaptations which could make the stakeholders resilience with the natural calamities in future.

PhD Research

PhD research focused on GIS and its application on wise use of resources in planning of aquaculture in the southwest of Bangladesh. I was engaged in identifying and quantifying the appropriate sites for brackish water aquaculture development in South-western Bangladesh using Remote Sensing image, topographic maps, Geographical Positioning Systems (GPS) and GIS. The study used a color composite image and 7 bands of Landsat TM images of 1996 covering the south-western part of Bangladesh to identify the extent of brackish water and to classify the land use. The remotely sensed data were complemented by secondary data digitized from a range of sources, including hard copy maps, to create a spatial database that included environmental and infrastructural data. A series of GIS models were developed in order to identify and prioritize the most suitable areas for brackish water shrimp, crab and freshwater prawn, tilapia and Indian major carps farming in the region. Using qualitative and quantitative output from the models, comparison was made for benefits of shrimp and crab farming and alternative land uses in the Khulna region, based on gross production, economic output and employment potential. Comparison was also made of brackish water shrimp and crab culture with moderately saline tolerant tilapia and prawn culture, fresh water carp culture and traditional rice production systems. The study resolved the land use conflict among rice, aquaculture and forestry. I also carried out coastal low lying land vulnerability to global change with the projected sea level rise and predicted the consequences of sea level rise in 2050 in the coastal region of Bangladesh.

Fellowship Awarded

IDB Scholarship for Postdoc-Islamic Development Bank competitive scholarship for the Muslim scholar at Texas A & M University, USA from January to July 2011

BTA fellowship - By British council through British Technical Assistance Programme from October 1996 to October 2000

Subject Teaching at the University

Coastal Aquaculture in Undergraduate level, Mangrove Aquaculture in Post-graduate level, Mariculture in Post-graduate level, Geographical Information Systems (GIS) in Aquaculture in Post-graduate level and Geographical Information Systems (GIS) in Fisheries in B.Sc level, Live Food Culture in B.Sc and Post-graduate level

MS Student Guide

From 2001 to till to date forty MS students were successfully guided in thesis category and currently supervising another five students.

Professional Membership

Life Member of Bangladesh Fisheries Research Forum (BFRF).

Life Member of Progressive Agriculturist, Bangladesh

Member in Fisheries Society of Bangladesh

Organizer of the workshop

Workshop on “**Impacts of Climate Change on livelihoods, Agriculture, Aquaculture and Fisheries sector of Bangladesh**” jointly organised by the Department of Aquaculture, Bangladesh Agricultural University (BAU), Mymensingh and Institute of Aquaculture, University of Stirling, Scotland, UK, on 1 October 2009 at the Distance Learning Room, 2nd floor, Central Library, BAU.

A seminar on “**The Potential of GIS-Based Modeling for Aquaculture Development and Management in Khulna Region, Bangladesh**”. Organized by the Department of Aquaculture, Bangladesh Agricultural University (BAU) at Local Government Engineering Department (LGED) Auditorium, Agargoan, Dhaka –1207 on 24th May 2001.

Seminar on “**The Potential of GIS-Based Modelling in different sectors**”. Organized by the Department of Aquaculture, Faculty of Fisheries, Bangladesh Agricultural University (BAU) Mymensingh at the Gallery of Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, on 24th April 2002.

Seminar on “**Status of Seaweeds in Bangladesh Coast and Their Culture Potential**”. Organized by the Department of Aquaculture, Faculty of Fisheries, Bangladesh Agricultural University (BAU) Mymensingh at the Gallery of Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, on 12th September 2002.

Workshop on “**Global Warming and Sea Level Rise and its Impact on Fisheries and Aquaculture on Bangladesh**”. Organized by the Department of Aquaculture, Bangladesh Agricultural University (BAU) and University of Stirling at BAU, Mymensingh, Bangladesh in 25th March 2008.

International workshop on “**Potential Impacts of Climate Change on Fisheries and Aquaculture in Bangladesh**” jointly organised by the Department of Aquaculture,

Bangladesh Agricultural University (BAU), Mymensingh and Institute of Aquaculture, University of Stirling, Scotland, UK, on 4th November 2008 at the Conference Room of Frozen Food Exporters Association Building “Shrimp Tower”, Khulna.

Co-organizer of the workshop

1st National workshop on “**Freshwater Prawn Farming: search for New Technologies**” organized by Bangladesh Agricultural (BAU) University and Bangladesh Fisheries Research Forum at BAU, Mymensingh, Bangladesh on 16th May 2007.

Reviewer

Agriculture, Ecosystems and Environment
Bangladesh Journal of Fisheries, Bangladesh
Progressive Agriculture, Bangladesh
Bangladesh Journal of Fisheries Research, Bangladesh
Journal of Agro-forestry and Environment, Bangladesh
The Energy Journal, Pennsylvania, USA
International Journal of Ecology and Development, India

Expert Member

Fisheries expert member of Investment Corporation of Bangladesh for EEF fund Project Evaluation.
Biodiversity expert member in the Ministry of Environment for the People’s Republic of Bangladesh.
Expert member at Hazi Danesh Science and Technology University for Lecturer and Assistant Professor Appointment.
Expert member at Bangobandhu Agricultural University for Lecturer and Assistant Professor Appointment.
Governing body Member, Bangladesh Agricultural University High School, Mymensingh

Consultancy Services

Worked as fisheries consultant for “Mid term review” in the Regional Fisheries and Livestock Development Component (RFLDC) in Barisal and Noakhali region a Danida-funded Agricultural Sector Programme Support in Bangladesh.
Worked as fisheries consultant for “Sub-Regional Study on Fisheries and Environment” in the polder area of Khulna with the supervision of Integrated Planning for Sustainable Water Management (IPSWAM) under the Ministry of Water Resources and funded by the Government of the Kingdom of the Netherlands from September 2007 to February 2008.
Worked as fisheries consultant for “Impact of Fish Farmer Group through Greater Noakhali Aquaculture Extension Project (GNAEP), DANIDA funded project in Noakhali District, from June 2006 to September 2006.
Worked as fisheries consultant for “Baseline and Impact study of Pro-Poor Initiatives through Greater Noakhali Aquaculture Extension Project (GNAEP), DANIDA funded project in Noakhali District, from January 2006 to June 2006.
Worked as a consultant in Remy Multi purpose agricultural farm to design and layout the culture ponds and hatchery for indigenous catfish magur (*Clarias bairdii*) and carp,

trained the staff in breeding techniques. Proprietor: Reza Ali, Dhanikhola, Trishal, Mymensingh, Bangladesh.

Worked as National Consultant on Fisheries Future Studies, Application of GIS in Fisheries and Aquaculture Planning in Bangladesh, Department for International Development (DFID), from June 2002 to July 2002.

Performance Records

Major Responsibilities:

Since July 2005 to date

Teaches the following subjects at the Bangladesh Agricultural University:

Coastal Aquaculture in BSc level,
Mangrove Aquaculture in Post-graduate level,
Mariculture in Post-graduate level,
Geographical Information Systems (GIS) in Fisheries at BSc level
Geographical Information Systems (GIS) in Aquaculture in Post-graduate level
Live Food Culture in B.Sc level
Live Food Culture in Post-graduate level
Field trip to the freshwater as well as coastal region to trained the students to fish, prawn and shrimp culture, marketing, and conduct the survey independently

Major Responsibilities:

Since January 2007 to date (Part time)

Teaches the following subjects at the Moulana Vashani Science and Technology University:

Geographical Information Systems (GIS) in Environmental Science at BSc level

Major Responsibilities:

Since March 2005 to date (Part time)

Monitor, evaluate and follow-up the students progress in the WebCT the web based distance learning Programme implementing jointly the University of Stirling and Bangladesh Agricultural University

Major Responsibilities:

From July to October 2001

Maintain the students discipline and help the University authorities to deals with the students affairs

Major Responsibilities:

From November 2000 - July 2005

Teaches the following subjects at the University:

Coastal Aquaculture in Undergraduate level,
Mangrove Aquaculture in Post-graduate level,
Mariculture in Post-graduate level,
Geographical Information Systems (GIS) in Fisheries at BSc level
Geographical Information Systems (GIS) in Aquaculture in Post-graduate level

Field trip to the freshwater as well as coastal region to trained the students to fish and shrimp culture, marketing, and conduct the survey independently

Major Responsibilities:

From September 1995 - November 2000

Teaches the following subjects at the University:

Freshwater Aquaculture in Undergraduate level,

Field trip to the freshwater to trained the students to fish and shrimp culture, marketing, and conduct the survey independently

Major Responsibilities:

1999 - 2000

To help the University authority to conduct a week long residential practical and exam.

Major Responsibilities:

Intermittent input (2003 to May 2007).

Conduct the research and guide the co-investigator and research fellow and report to authority

GIS modeling to find out the best place for Tilapia farming in Phulpur Upazilla, Mymernsingh

Tilapia farming potential in Muktagachha Upazilla through GIS modeling

All male Prawn farming technique develop

Present status and future potential of Molluscs, dry fish and crab in Bangladesh coast

Identify the access rights and governance of the poor and landless in the coastal communities in Bangladesh

Through GIS study fisheries and Aquaculture development in Mymensingh region

Major Responsibilities:

Intermittent input (2001 to May 2006).

To help the Principal Investigator in conducting the research and guide the staff and research fellow and also help to report to the authority

Identify the disease affected fish and take the remedial measure

Identify the edible muscle in Bangladesh coast

To see the impact of saponin on growth and reproduction in tilapia

Breeding trials and rearing of shing fry in laboratory condition

Computer Literacy

Microsoft Office 2000 and onward, Paint Shop Pro 5, Paint, Excel, Power Point Presentation and Procite. Digitising Software: CartaLinx, Digi-Edit for windows 1.01 and Tosca DOS version. GIS and Image Processing Software: IDRISI for Windows version 2.0, IDRISI 32, IDRISI for KILIMANGARO, IDRISI for Andes, ArcView 3.2. and ArcView Special Analyst. Other GIS tools used: Global Positioning System (GPS)

Language:

Fluent in spoken English with a written English ability of international standard.

References:

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Scotland, U.K.
E-Mail: M.Beveridge@cgiar.org

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