

DR. BERNERD MULWA FULANDA (PH.D.)**Curriculum Vitae****Personal information**

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| First name(s)/Surname(s) | Bernerd Mulwa FULANDA | | |
| Address (es) | Pwani University Department of Biological Sciences, P. O. Box 195-8018, Kilifi - KENYA | P. O. Box 87884, Mombasa, KENYA | |
| Telephone(s) | Fixed: +254-417525103/4/6 Wireless: +254-786727899 | Mobile: | +254-707-705-250 +254-718-894-874 |
| E-mail | bernfulanda@yahoo.com / b.fulanda@pu.ac.ke | | |
| Nationality | Kenyan | | |
| Date of birth | 21/04/1971: Gender - Male | | |

PERSONAL STATEMENT

Dr. Fulanda is Senior Lecturer at Pwani University, the Leader for Marine sciences, fisheries and oceanography programmes, and currently the Chair, Department of Biological Sciences. He holds a Masters and Doctorate in Fisheries (Science of Environment and Biology of Resources) from Kagoshima University, Japan; and a second Master of Science in Environmental Technology (Limnology & Wetland Ecosystems) Science from UNESCO-IHE, Delft, The Netherlands and a B.Sc. Degree (Fisheries) from MOI University, Kenya. Dr. Fulanda has over 25 years of professional experience in Marine Sciences, Resource Management / Conservation; Research and policy Analysis with extended working in Fisheries management; Fishery analysis and Management Planning; Ecology/biology of the coastal and marine species of the Western Indian Ocean and the South Pacific Ocean; Fisheries Legislation, Policy and Planning, Biodiversity and Conservation. His work experience ranges from Research, Training and Development, and he involved in various projects including EIA and ESIA for various projects, Fisheries surveys (shrimp, small and medium pelagics, migratory stocks) and Fisheries law/legislation and policy (international/domestic instruments, fish trade policies). He has worked on various assignments both locally and internationally, including Survey of the Western Indian Ocean Tuna resources in Kenya and Tanzania (WWF, Tanzania), Fisheries and Community Empowerment under the Coastal Communities against Piracy (FAO, Somalia), International Fisheries Instruments/Law and Domestication for African Union Member States (AU-MS)(AU-IBAR), Fish Trade Flows and Impacts on Food security and Economy in Africa (AU-IBAR), Development of Sustainable Fishery Markets & Evaluation of Natural Resource Capital (Lamu Archipelago, The Nature Conservancy TNC), Development of the Mombasa Special Economic Zone (SEZ) Comprehensive Environmental Management & Conservation Plans, Dongo-Kundu Project (MOIED, GoK); Development and Delivery of a Regional Capacity Building Workshops in the Negotiation of Fisheries Access Agreements and Licenses for Eastern Africa Region (WWF Mozambique) and Regional Member Countries of the African Development Bank (AfDB, Abidjan, Cote de Ivoire & Pretoria, South Africa); Revision of the Integrated Coastal Zone Management (ICZM) Action Plan for Kenya (NEMA Kenya (NEMA/ IOC Biodiversity Project); Assessment of the Current Status of the Octopus spp. in the Coastal Waters of the Lamu Archipelago, Kenya (TNC); and Development of a Baseline to Measure Project Outcomes on Governance & Management Effectiveness using MSC Certification Standards (KEMFSED Project.) among others.

He has been involved in the preparation of various management plans for the Kenya Marine fisheries including the Malindi-Ungwana Bay Prawn Management Plan; the Malindi-Ungwana Bay Co-Management Plan; the Lamu Shallow water Lobster Fishery management Plan, Ecological Risk Assessment for Effects of Fishing for various fisheries within the Kenya Marine fisheries using SICA and PSA; Development of sustainable fishery gears for the small-scale fisheries including the land-based shrimp fishery along the Kenya coast; and is currently one of the key experts in the team for ongoing MSC Pre-Assessment for the certification of the Shallow Water Lobster Fishery of the Lamu Archipelago. He is a certified EIA/ESIA Lead Expert with National Environmental Management Authority NEMA, Kenya.

Since joining Pwani University 2013, he has supervised over 10 Master Thesis both in Fisheries and Environmental Sciences. He is also currently supervising three (3) Masters and three (3) Ph.D. students in Fisheries, Conservation and Environmental Sciences. Dr. Fulanda has also worked collaboratively with the Kenya Marine & Fisheries Research Institute (KMFRI), the State Department of Fisheries and the Blue Economy (SDF&BE) and other state agencies in a number of initiatives targeting the marine fisheries sector including development of a catch monitoring system for the artisanal fisheries; Training of BMUs in co-management of small-scale fisheries; Participatory GIS mapping of fishing areas, Fisheries resource assessments and development of management plans. He has an established network with many national, regional and international institutions (both public and civil society organizations) involved in coastal and marine resource research and management including SDF&BE, KMFRI, KWS, AU-IBAR, FAO, WWF, SWIOFish, IOTC and various local NGOs and therefore is able to access any data and information pertaining to the focal area under this consultancy. Lastly, he involved in a number of national taskforces on development of appropriate interventions for the management of marine and coastal resources, including the National Task Group on the development of the Tuna fishery management and development strategy in Kenya, Task group to the Small and Medium Pelagic Fishery, in addition to being key players in the AU-IBAR efforts in boosting fisheries production and management in Africa.

Dr. Fulanda's current focus is on Coastal Development and Environmental Issues, Fishery improvements and design of management plans, Fisheries policy and legislation, Ecosystem Dynamics, Biodiversity/Conservation Research and training within the Coastal and Marine Ecosystems, Fish Population dynamics and stock assessment; Resource management (Decision and Risk Analysis; Adaptive management); Fisheries and Conservation Law, Policy and Planning; and Fisheries Resources and Natural resource economics. He has been instrumental in the development of lobster fishery certification and establishment of the baselines for various priority fisheries for the KEMFSED Project which is at its startup stages, Dr. Fulanda is well versed with the Fisheries Management and the Blue Economy Development, MSC Certification and BMT Analysis, and meets the technical competencies required by the client (AU-IBAR) as specified in the Terms of Reference (TORs). His capacity and experience is more elaborated in his resume.

| Work experience | |
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| Dates | 2019 February - Present |
| Occupation/ position | Chair, Department of Biological Sciences, School of Pure & Applied Sciences |
| Dates | 2017 - Present |
| Occupation/ position | Senior Lecturer -Marine Sciences, Fisheries & Oceanography |
| Dates | 2013 - 2016 |
| Occupation/ position held | Lecturer - Marine Sciences, Fisheries & Oceanography |
| Main activities and responsibilities | -Marine Sciences; Marine Biology, Ecology, Ecology & Management of Marine / freshwater Fisheries, Principles of Aquaculture, Reservoir Management, Oceanography, Fish Population Dynamics, Fish Stock Assessment; Research Methodology (/in Marine Sciences), Biostatistics & Data Analysis; -Supervision of M.Sc. / Ph.D. Dissertations, Examination of Student Dissertations, Research & Development. |
| Name and address of employer | Pwani University P.O. Box 195-80108, Kilifi, KENYA Web: http://www.pu.ac.ke |
| Institution /position held | Adjunct Lecturer, Kenyatta University – Mombasa Campus |
| Main activities and responsibilities | Lecturer, Coastal and Marine Resource Management: Research Methods and Biostatistics; B.Sc. 4 th Year Research Projects |
| Address of Institution | Kenyatta University, Mombasa Campus; P.O. Box 16778-80100 Nkrumah Road, Mombasa, Tel: +254(041)2318975/8973/8976 Website: www.ku.ac.ke |
| Type of business or sector | Education, Training and Research |
| Work experience | |
| Dates | 2012 - 2013 |
| Occupation/position held | Research Officer I – Fisheries |
| Main activities and | Research in Marine Biology/Ecology, Fish population dynamics, Fish stock |



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| responsibilities | assessment and Fisheries management, Marine Fisheries Surveys, Supervision of Student Projects at Under- and Graduate level. Research/Implementation of KCDP-GEF/WB/GOK project |
| Name and address of employer | Kenya Marine & Fisheries Research P. O. Box 81651-80100, Mombasa, KENYA Tel: +254 (041)475151/4; Fax: +254 (041) 475157 Web: http://www.kmfri.co.ke |
| Type of business or sector | Fisheries Research and Development (R&D) |
| Work experience | |
| Dates | 2005-2012 |
| Occupation/ position held | Research Officer II – Fisheries |
| Main activities and responsibilities | Research in Marine Biology/Ecology, Fish population dynamics, Fish stock assessment and Fisheries management, Marine Fisheries Surveys, Supervision of Student Projects at Under- and Graduate level, Research/Implementation of SWIOFP – Kenya project |
| Name and address of employer | Kenya Marine & Fisheries Research – Mombasa Station P. O. Box 81651-80100, Mombasa / Hq, KENYA Tel: +254 (041)475151/4; Fax: +254 (041) 475157 Web: http://kmfri.co.ke |
| Type of business or sector | Fisheries Research and Development (R&D) |
| Work experience | |
| Dates | 2000-2004 |
| Occupation/position held | Fisheries Officer I – Fisheries |
| Main activities/ responsibilities | Research in Aquaculture, Pond Dynamics, Breeding, Nutrition/Feeds, Marketing, Integrated Aquaculture-Agriculture Systems, Reservoir Fisheries & Cage Culture, Development of Extension/Outreach Programs, Lectures to Schools, Universities and Community Groups. |
| Name/ address of employer | State Department of Fisheries – National Aquaculture Research, Development and Training Centre, Sagana Centre P.O. Box 26-10230, Sagana/P.O. Box 58187-00100, Nairobi, KENYA Tel: +20-3742320/49 Web: http://kilimo.co.ke |
| Type of business or sector | Fisheries Research and Development (R&D) |
| Work experience | |
| Dates | 1997-2000 |
| Occupation/ position held | Fisheries Officer II – Fisheries / Head, Mariculture Center. |
| Main activities and responsibilities | Research in Shrimp Mariculture, Tidal Pond Dynamics, Breeding, Nutrition/ Feeds, Marketing, Cage Culture, Development of Extension and Outreach Programs, Lectures to Schools, Universities and Community Groups. |
| Name and address of employer | State Department of Fisheries – National Aquaculture Research, Development and Training Centre, Ngomeni Centre P.O. Box 12, Malindi / P.O. Box 58187-00100, Nairobi, KENYA Tel: +20-3742320/49 Web: http://kilimo.co.ke |
| Type of business or sector | Administration, Research and Development (R&D) |
| Work experience | |
| Dates | 2018- |
| Occupation/position held | Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Visiting Professor to Lilongwe University of Agriculture and Natural Resources (LUANAR), Lilongwe Malawi; 7 th -20 th January, 2018 |
| Main activities and responsibilities | Lecturer: Fish Population Dynamics & Stock Assessment, Fisheries Management, Fisheries Policy and Planning |

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| Name and address of Institution | Lilongwe University of Agriculture & Natural Resources LUANAR-Malawi P. O. Box 219, Lilongwe, MALAWI Tel Tel: +(265) 01 277 222/260; Fax: +254 (041) 475157 Web: http://www.luanar.mw |
| Type of business or sector | Research and Development (R&D) |
| 2015 | Member, Committee to Launch Oceanography Program, Pwani University |
| 2014 | Member, Pwani University Strategic Plan Committee 2014-2014 |
| 2014 | Member, Board of Graduate Studies – School of Pure and Applied Sciences |
| 2013 - Present | Curriculum development for Dept. of Marine Sciences and Oceanography. |
| 2014-Present | Department of Biological Sciences, Examinations Coordinator |
| 2013-2014 | Department of Biological Sciences, Assistant Examinations Coordinator |
| Education and training | Doctor of Philosophy in Fisheries Science |
| Dates | 2009-2012 |
| Qualification awarded | Ph.D. –Fisheries (Environment and Resource Biology Sciences) |
| Principal subjects /occupational skills | i) Thesis Title: Biomass estimation and trophic analysis of fish and shellfish in Kagoshima Bay, southern Japan ii) Design and Standardization of Fisheries Survey Protocols, Fishing Gear behaviour & Modelling, Fish Density and Biomass Estimations, Fish Stock Assessment, iii) Decision and Risk Analysis in Fisheries Management, Resource Economics, Marine Environmental Sampling and Monitoring, Spatial Mapping, Stable Isotope Techniques, Trophic Analysis, Ecosystem. |
| Name and type of organisation providing education and training | United Graduate School of Agricultural Sciences – Kagoshima University, Japan Shimoarata 4-50-20, Kagoshima 890-0056, JAPAN. Tel: +81-99-286-4111 Fax+81-99-286-4015 Web: http://www.fish.kagoshima-u.ac.jp/ |
| Education & training | |
| Dates | 2007-2009 |
| Qualification awarded | Master of Science in Fisheries (Science of Environment and Biology of Resources) |
| Principal subjects /occupational skills | i) Standardization of Fishing Gear, Fish Stock Assessment, Density and Biomass Estimations, Species identification, Oceanography, Current & Fishing Gear Behaviour, Statistical Software & Biostatistics. ii) Thesis Title: Biomass estimation for fish and shellfish from experimental trawl surveys: case of the semi-enclosed deeper water Kagoshima Bay, southern Japan |
| Name and type of organisation providing education and training | Graduate School of Fisheries – Kagoshima University, Japan Shimoarata 4-50-20, Kagoshima 890-0056, JAPAN. Tel: +81-99-286-4111 Fax+81-99-286-4015 Web: http://www.fish.kagoshima-u.ac.jp/ |
| Education & training | |
| Dates | 2001-2003 |
| Qualification awarded | Master of Science in Environmental Science & Technology (Limnology & Wetland Ecosystems) |
| Principal subjects /occupational skills | i) Major – Environmental Technology, Limnology & Wetland Ecosystems, Environmental monitoring & Surveys, Pond Dynamics & Aquaculture, Fish Breeding, Feeds, Enterprise Budgets and Economic Analysis. ii) Thesis Title: Effects of open-pond density and caged biomass of Nile Tilapia (<i>Oreochromis niloticus</i> L.) on growth, feed utilization, economic returns and water quality in fertilized ponds |
| Name and type of organisation providing education and training | UNESCO-IHE Institute for Water Education Westvest 7, 2611 AX Delft, The Netherlands Tel.: +31152151715, Fax: +31152122921 Web: http://www.unesco-ihe.org/ |

| Education & training | |
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| Dates | 1990-1995 |
| Qualification awarded | Bachelor of Science (Fisheries) |
| Principal subjects /occupational skills | Major: Fisheries Biology, Ecology, Marine Ecology, Fisheries Law, Aquaculture Minor: Research methods, Biostatistics, Computer Applications |
| Name and type of organisation providing education and training | MOI University (University of Eldoret, Current) P. O. Box 1125-30100, Eldoret, KENYA Tel.: +254 (0)53 43363 / 43620 Web: http://www.mu.ac.ke |
| Training Workshops | |
| May 2013-June 2014 | International Training Programme on Integrated Sustainable Coastal Development ISCD 2013B – SIDA, Sweden/Tanzania/Kenya. |
| 19 th November, 2012 | National Environment Management Authority – EIA / ESIA/EA Lead Expert Certification, Nairobi, Kenya. |
| 22-26 th October, 2012 | UNESCO-IHE: Developments in Water Quality Monitoring, Butare, Rwanda. |
| 8 th -10 th August, 2012 | East African Community – Europe Food Security Symposium EU-FP7: Food, Agriculture and Fisheries, and Biotechnology (FAFB) Research, Arusha, Tanzania. |
| 22 nd -24 th October, 2008 | Marine Explorer GIS training Program, Environmental Simulation Laboratory, Kawagoe; Japan. |
| 15 th -26 th August, 2005. | Economic Tools for Ecosystem Conservation , Conservation Strategy Fund, Stanford Univ., California, USA. |
| 16 th May-9 th June, 2005 | Aquaculture Production & Management, Fac. Agriculture, The Hebrew University of Jerusalem, Rehovot, Israel. |
| 2 nd Apr. -27 th Sept., 2002 | Post Graduate Training Course in Limnology (IPGL), Inst. For Limnology, Mondsee, Austria. |
| 3 rd -14 th March, 1997 | Fisheries Management, Administration and Legislation, Kenya Wildlife Service Training Institute, Naivasha, Kenya |
| Selected Conferences/ Meetings / Trainings | |
| 16 th -26 th July, 2018 | Regional Training Course on Practical Tools in Quantitative Fisheries Stock Assessment; Kilifi, Kenya, Kenya (Pwani University/University of Florida & African Billfish Foundation, Resource Faculty/Expert) |
| 16 th -19 th April, 2018 | Fisheries Training on Small-scale Data Collection and Analysis, and Fish Stock Assessment for Data-poor Fisheries for the Sustainable Management of Coastal & Marine Fisheries; Mombasa, Kenya, Kenya (Pwani University/University of Murdoch & WWF-CKP, Resource Faculty/Expert) |
| 12 th -16 th March, 2018 | Integrated Workshop on Enhancing Regional Cooperation for the Rational Management of Shared Fish Resources in Africa; Nairobi, Kenya (AU-IBAR , Fisheries Expert) |
| 2 nd - 4 th August, 2017 | Think Tank Meeting for Fish and Fish Products Trade Flows in Africa; Evaluation of Impacts on Food Security and Economies of AU-MS; Abuja, NIGERIA (AU-IBAR Consultant / Think-Tank Member) |
| 26 th - 28 th April, 2005 | New Challenges In Pond Aquaculture; České Budějovice, Czech Repub. |
| Skills /competency | |
| Social skills and competences | - Competent skills in community Outreach and Mobilization acquired through initiatives for various projects including Shrimp aquaculture/mangrove management in Magarini /Malindi, Kwetu Centre Mtwapa, Bonje-Chogonwe in Port Reitz; Tilapia Aquaculture at NARDTC Sagana; Conflict Resolution in Malindi-Ungwana fishery Bay, Prawn/Lobster Fishery Management Plans. - Excellent Communication skills acquired in various projects: Malindi-Ungwana Bay Co-Management Plan, Tuna Fisheries Strategy, KCDP and on fisheries reporting and documents preparation. |
| Organisational skills and | - Good leadership qualities gained as team leader/team player in various |

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| competences | assignments: Head of Station, GoK/FAO/UNDP Ngomeni Shrimp Project; Team player, GoK/UNDDP/GEF –KCDP Project; Team Leader, Fisheries/Biological Research, Planning & Sampling protocols on MV. Nansei-Maruru Research Vessel – Kagoshima Japan. |
| Technical skills and competences | - Coordination of technical workshops, Fisheries meetings, Research planning and survey protocols, etc during assignment in Kagoshima Bay Surveys; KCDP, TNC/NRT; SIDA-NIRAS. |
| Computer skills and competences | - Proficiency in Microsoft Office, Assorted Statistical software e.g. Statistica, SPSS, DPlot, DeltaGraph, Statgraph, Grahpad, Primer, SPECIES Software etc. Working knowledge of specialized fisheries software including Ecopath-Ecosim, FiSAT, LFSA etc; and Basic knowledge in Spatial mapping software (ArGIS, Quantum etc) and Remote sensing |

Selected Research awards

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| 2015, June-July | FAO-EAF NANSEN Project: R/V Dr. Fridtjof Nansen survey, southern Indian Ocean; IOC-UNESCO "Ecology in the Southern Indian Ocean gyre, Role of Mesopelagic fish and role of gyre as aggregation location for floating plastics" Fulanda BM (Survey team member) |
| 2012-2013 | National Council for Research Science and Innovation NACOSTI land-based seaweed farming, south coast Kenya, Fulanda BM (co-PI) |
| 2002-2003 | UNESCO-IHE NUFFIC Fund for Research on Pond Dynamics and Economics of Pond-Cage Culture, Sagana, Kenya. |

Selected Publications (Refereed Journals)

2018 Mumbah S.K., Manyala J.O., Njiru J.M, **Fulanda B.** & A.B. Kaunda (2018). Influence of salt works' hyper-saline waste-brine on distribution of mangrove crabs (Decapoda) along the Gongoni-Kurawa intertidal area, North Coast Kenya. *African Journal of Education, Science & Technology*, 4(3):14-27.

2018 Tighe, A.J., Gandola, R., **Fulanda, B.**, Thurman, K., Overby, S., Byrne, J. & J. Carlsson (2018). Testing PCR amplification from elephant dung using silica-dried swabs. *Pachyderm*, 59: 56-65

2018 Amisi, J.M., Ramalho, S.P., Munga, C.M., Vanreusel, A. Kimani, E. & **B. Fulanda** (2018). Assessment of deep sea bottom trawling impacts on the distribution and composition of megafauna and meiofauna in South-West Portuguese, Off Sines. *Journal of Marine Biology and Research*, 1(1): 1-13.

2016 Obota, C.O., **Fulanda, B.M.**, Okemwa, G.M. & E.N. Kimani (2016). Reproductive Biology and Body Condition of exploited populations of Aquarium Fish Emperor Angelfish *Pomacanthus imperator* Bloch, 1987 along the Kenyan Coast. *WIO Journal of Marine Science*, 15(2): 19-30.

2015 Ogongo B.O., Mwachiro E.C. and **Fulanda B.M.** (2015). Distribution and reproductive patterns of the *Epinephelus* genus groupers off Kenyan South coast marine waters. *Journal of Fisheries & Aquatic Science* 10(3):159

2014 Ndungu, J., Denie, C., Augustin, M., Suzanne J.M., Hulscher, H., **Fulanda, B.**, Kitaka, N. and J.M. Mathooko (2014). A multivariate analysis of water quality in Lake Naivasha, Kenya. *Marine and Freshwater Research*, 66 (2) 177-186

Hossain, Md. B., Rahman, Md. M., Sarwer, Md. G., Ali, Md. Y., Ferdous A., Rahman, S., **Fulanda, B.**, Rahman, M.M., Subba, B.R. and Md Y. Hossain (2014). Comparative Study of Carp Pituitary Gland (PG) Extract and Synthetic Hormone Ovaprim Used in the Induced Breeding of Stinging Catfish, *Heteropneustes fossilis* (Siluriformes: Heteropneustidae) *Our Nature* 10 (1): 89-95

2012 Ahamed, F., Hossain, M.Y., **Fulanda, B.**, Salam, A., Faruque, Z.A. and J. Ohtomi (2012). Indiscriminate exploitation of wild prawn post-larvae in the coastal region of Bangladesh: A threat to the fisheries resources, community livelihoods and biodiversity. *Ocean and Coastal Management* 66: 56-62

MY Hossain, MAS Jewel, B Fulanda, F Ahamed, S Rahman (2012). Dynamics of Cyanobacteria *Planktothrix* species (Oscillatoriales: Phormidiaceae) in Earthen Fish Ponds, Northwestern Bangladesh *Sains Malaysiana* 41 (3), 277-284

2011 **Fulanda, B.** and Ohtomi, J., 2011. Effect of tow duration on estimations of CPUE and abundance of the grenadier *Coelorinchus jordani* (Gadiformes, Macrouridae). *Fisheries Research*, 110: 298-304

- Fulanda, B.** and Ohtomi, J., **2011**. Determination of effective tow duration for estimation of fish and shellfish abundance in deeper-water bottom trawl surveys. *Fisheries Science*, 77:487-485
- Fulanda B.**, Ohtomi J., Mueni, E., Kimani, E., 2011. Fishery trends, resource-use and management in the Malindi-Ungwana Bay fishery Kenya. *Ocean & Coastal Management*, 54:401-414.
- Ahamed F., Molina, M., Jasmine, S., Hossain, M.Y., Jewel, M.A.S & **B. Fulanda** (2011) Potential and Economic Viability of Freshwater Prawn *Macrobrachium rosenbergii* (de Man, 1879) Polyculture with Indian Major Carps in Northwestern Bangladesh. *Our Nature* 9 (1): 61-72
- 2009 **Fulanda B.**, Munga C., Ohtomi J., Osore M., Mugo R. & Md. Y. Hossain, 2009. The Structure and Evolution of the Coastal Migrant Fishery of Kenya. *Ocean & Coastal Management*, 52: 459-466
- 2008 Wambiji N., Ohtomi J., **Fulanda B.**, Kimani E., Kulundu N. and M.Y. Hossain, 2008. Morphometric Relationship and Condition Factor of *Siganus stellatus* (Forsskål, 1775), *S. canaliculatus* (Park, 1797) and *S. sutor* (Valenciennes, 1835) (Family; Siganidae) from the Western Indian Ocean Waters of Southcoast Kenya. *J. South Pacific Studies*, 29(1): 1-15
- Shah, Md.M., Hossain Md.Y., Begum, M., Ahmed Z.F., Ohtomi, J., Rahman, M.M., Alam, Md Md.J., Islam, A. & **B. Fulanda** (2008). Seasonal Variations of Phytoplanktonic Community Structure and Production in Relation to Environmental Factors of the Southwest Coastal Waters of Bangladesh. *Jn. Fisheries & Aquatic Science* 3(2): 102-113
- 2007 M Begum, MY Hossain, MA Wahab, ZF Ahmed, M J Alam, M M R Shah, J Ohtomi, S Jasmine, M A H El-Kady, **B. Fulanda** (2007). Effects of iso-nutrient fertilization on plankton production in earthen ponds of Bangladesh. *Pakistan Jn. Biological Sciences* 10(8): 1221-1228
- MY Hossain, S Jasmine, AHM Ibrahim, ZF Ahmed, J Ohtomi, **B. Fulanda**, M Begum, A Mamun, MAH El-Kady, MA Wahab (2007). A preliminary observation on water quality and plankton of an earthen fish pond in Bangladesh: Recommendations for future studies. *Pakistan Jn. Biological Sciences* 10(6): 868-873
- MY Hossain, MM Rahman, S Jasmine, AHM Ibrahim, ZF Ahmed, J Ohtomi, MAH El-Kady, **B Fulanda** (2007). Comparison studies on water quality and plankton production between perennial and non-perennial ponds of Bangladesh. *Jn. Fisheries and aquatic Science* 3(3): 176-183
- 2005 Liti, D. M., **Fulanda, B.**, Munguti, J.M., Straif, M., Waidbacher, H. and G. Winkler, 2005. Effects of open-pond density and caged biomass of Nile Tilapia (*Oreochromis niloticus* L.) on growth, feed utilization, economic returns and water quality in fertilized ponds, *Aquaculture Research*, 36(15): 1535-1543.

Technical Reports / Advocacy Papers

- 2018 **Fulanda, B.M.** (2018). Fish and Fishery Products Trade flows, Socio-economic and Food Security Impacts of the Fish imports/export into and out of Africa. *AU-IBAR Technical Report*, Nairobi, Kenya
- 2018 **Fulanda B.M.** (2018). Value and Socio-economic Impacts of Fish Importation and Exportation into and out of Africa. *AU-IBAR Advocacy Paper*, Nairobi, Kenya
- 2018 **Envasses** (2018). Mombasa Special Economic Zone (SEZ) Comprehensive Environmental Management & Conservation Plan ("CEMC Plan"). *MIED*, Kenya (Fisheries/Marine component)
- 2017 HELP-Somalia (2017). Fishing Vessel Performance and Design of Potential Micro-Financing Systems and Arrangements in Puntland, Somalia; *FAO-SOM Coastal Communities Against Piracy project CCAP*; Fulanda B.M. (Lead, Fisheries economics Component)
- 2016 **Fulanda B.M.** (2016). Constraints to the Implementation/Adoption of International Instruments for Fisheries Management and Aquaculture Development for Identification of Intervention Areas to Support African Union Member States in the Eastern Region of Africa. *AU-IBAR Technical Report*, Nairobi, Kenya
- 2016 **Fulanda, B.M.** (2016). Socio- Economic Valuation of Artisanal Tuna Fishery in Tanzania: Zanzibar - Kizimkazi, Nungwi and Pemba; *WWF Technical Report*, Tanzania
- 2015 **Fulanda, B.M.** (2015). Socio- Economic Valuation of Artisanal Tuna Fishery in the Lamu Seascape, Kenya. *WWF Technical Report*, Tanzania
- 2012 Kimani, E.N., Fulanda, B.M., Wambiji, N., Mbaru, E., Munga, C.N., Okemwa, G.M., Thoya, P. & J.O. Omukoto (2012). Spatial Mapping of the Environment and Trawl Fishery Resources of Malindi-Ungwana Bay, Kenya. SWIOP Project, Kenya

| Book Chapter | |
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| 2009 | Okemwa G.M, Fulanda, B. , Kimani E.N. & J. Ochiwo, 2009 . Exploitation of Marine Aquarium Reef Fisheries at the Kenyan Coast. <i>In: Hoorweg J. & Muthiga N. (eds.), Advances in Coastal Ecology: People, Processes and Ecosystems in Kenya</i> , African Studies Collection 20: 28-42, Leiden, PrintPartners Ipskamp BV, Enschede, Netherlands. |
| 2003 | Fulanda, B. , 2003 . Shrimp Trawling in Ungwana Bay: A Threat to Fishery Resources. <i>In: Hoorweg J. & Muthiga N. (eds.), Recent Advances in Coastal Ecology: Studies from Kenya</i> , African Studies Centre Res. Report 70: 233-242, Leiden, PrintPartners Ipskamp BV, Enschede, Netherlands. |
| Selected Workshops / Symposia Papers | |
| 2018 June 5th Internat. Marine Conservation Congress | Musembi, P., Kairo J. & B. Fulanda (2018). Fisheries assemblage and exploitation patterns in the seagrass meadows of Gazi Bay, Kenya |
| 2016; 1 st KCDP Conference, Voi, Kenya | <ul style="list-style-type: none"> i) Fulanda, B.M., Barabara, M., Mueni, E., Manyala, J.O., Munga, C., Maina, G.W., Murage L.D. & Kimani E.N. (2016). Decades of Resource Management: History, Advances and Future Prospects in the Management of Coastal and Marine Fisheries of Kenya. ii) Oketch, O., Okuku, E., Shokut D., B.M. Fulanda (2016). Assessment of Seawater Intrusion into coastal Fresh water wells in Tiwi, Kwale, Kenya. iii) Murungu, D.K. & B.M. Fulanda (2016). Assessing the Status of Mangrove Mud Crab Fisheries in Tudor Creek, Mombasa, Kenya. iv) Mumbah, S.K., Manyala, J.O., Njiru, J. & B.M. Fulanda (2016). Impact of disposed hyper-saline water on crab species composition, distribution and abundance at Gongoni-Marereni salt industrial area in North Coast Kenya |
| Consultancies/Project Assignments | |
| 2019 April-May | Assessment of the Current Status of the <i>Octopus</i> spp. in the Coastal Waters of the Lamu Archipelago, Kenya (Fulanda B.M, Coordination under RESPA-Africa) |
| 2019, Jan-Feb | Consultancy Services for Development of a Baseline to Measure Project Outcomes on Governance & Management Effectiveness, KEMFSED Proj.; Fulanda BM (Consultant) |
| 2018, Dec | Development and Delivery of a Regional Capacity Building Workshops in the Negotiation of Fisheries Access Agreements and Licences for Eastern Africa Region, WWF Mozambique (Fulanda B.M. ; Fisheries Component) |
| 2018, Nov-Dec. | Revision of the Integrated Coastal Zone Management (ICZM) Action Plan for Kenya; NEMA Kenya. (Fulanda BM , Lead – Marine & Fisheries component, ENVASSES Consultants) |
| 2018, May | Development and Delivery of a Regional Capacity Building Workshops in the Negotiation of Fisheries Access Agreements and Licences for Regional Member Countries of the African Development Bank, Cote d'ivoire and South Africa (Fulanda B.M. ; Fisheries Management component) |
| 2018, March. | Development of the Mombasa Special Economic Zone (SEZ) Comprehensive Environmental Management & Conservation (CEMC) Plans; Fulanda B.M. (Component leader – Fisheries/Wildlife/Ecology, ENVASSES) |
| 2018, May | Assessment of Fish and Fishery Products Trade flows, Socio-economic and Food Security Impacts, of the Fish imports/export into and out of Africa; African Union-Inter-African Bureau for Animal Resources (AU- BAR); Fulanda B.M. (Lead Consultant) |
| 2017 Jan. | Financial Analysis of Fishing Vessel Performance and Design of Potential Micro-Financing Systems and Arrangements in Puntland, Somalia; FAO-SOM Coastal Communities Against Piracy project CCAP; Fulanda B.M. (Lead, Fisheries Comp.) |
| 2016, May | Socio- Economic Valuation of Artisanal Tuna Fishery in Tanzania: Zanzibar - Kizimkazi, Nungwi and Pemba; WWF Tanzania; Fulanda B.M. (Lead Consultant) |
| 2016, Jan. | Assessment of Constraints to the Implementation/Adoption of International Instruments for Fisheries Management and Aquaculture Development for Identification of Intervention Areas to Support African Union Member States; AU-IBAR; Fulanda B.M. (Lead Consultant) |
| 2015, Dec. | Preliminary Assessment of Natural Capital and Potential Planning Interventions, Lamu, Kenya; WWF-Kenya; Fulanda B.M. (Component Leader-Fisheries, ENVASSES) |

- 2015, Aug. Socio- Economic Valuation of Artisanal Tuna Fishery in Kenya: Case Study of the Lamu Seascape; WWF-Tanzania; **Fulanda B.M.** (Lead Consultant)
- 2014, Oct. Preparation of Priority Fishery Profiles for Lamu-Tana Seascape; WWF Coastal East Africa, **Fulanda B.M.** (Component Leader - Tuna Fishery)
- 2014, Nov. Developing a Sustainable Fisheries Market for Kiunga and Pate Island Community Conservancies in Kenya's North Coast; North Rangelands Trust – Coast / The Nature Conservancy, **Fulanda, B.M.** (Lead Consultant)
- 2013-2014 Environmental Impact Assessment for the Construction of the first 3 berths and Associated infrastructure for the Proposed Lamu Port at Manda Bay, Lamu. February-March, 2014. **Fulanda B.M.** (Component Leader – Fisheries, ENVASSES)
Assessment of impact & design of proposed construction of a seawall on land area abutting the Indian Ocean /adjacent to the Mombasa MPA. August 2013-July, 2014. **Fulanda B.M.** (Component Leader).
- 2012-2014 Feasibility, Environmental Impact Assessment and Installation of a Marine Hatchery Facility for the State University of Zanzibar SUZA, Zanzibar, Tanzania. August 2012-2014. **Fulanda B.M.** (Team leader).
Ecological and Environmental Impact Assessment of the Proposed Sea Marina & Moorings in Kilifi Creek, Kenya. Fulanda B.M. (Comp Leader- Fisheries, ENVASSES).
- 2014-2011 Ecological Assessment & EIA for Land Reclamation from Makupa Creek (Kibarani), Kenya by Multiple Hauliers (Ea) Ltd; Makupa Causeway. November 2010-January, 2011. **Fulanda BM.** (Component Leader – Fisheries ENVASSES).
- 1998-2000 Project Development, Community Mobilization and EIA/ESIA of Bonje-Chogongwe shrimp Culture Project, Port Reitz Creek, Kenya. 1998-1999. **Fulanda BM.** (Lead Consultant).

| REFEREES | |
|---|---|
| KAHINDI , James H.P., Dr., Ph.D., University Professor | Deputy Vice Chancellor (Academic & Student Affairs) Pwani University – Kilifi, Kenya P.O. Box 195-80108, Tel: +254-41-7525103/4/6; Wireless: +254 -786727899 Email: j.kahindi@pu.ac.ke |
| MLEWA , Christenson, Dr., Ph.D., University Professor | Dean, School of Graduate Studies Pwani University – Kilifi, Kenya P.O. Box 195-80108, Tel: +254 -786-727-899;+254-734970121 / 714356322 Email: m.mwatete@pu.ac.ke |
| WAIDBACHER , Herwig, Dr., Ph.D., University Professor | Institute of Hydrobiology & Aquatic Ecosystem Management Max-Emanuel-Straße 17, 1180 Wien; Tel: (+43) 1 / 47654-5222 Email: herwig.waidbacher@boku.ac.at |
| OHTOMI , Jun, Dr., Ph.D., University Professor | Faculty of Fisheries, Kagoshima Univ., Kagoshima 890-0056, Shimoarata 4-50-20, JP Tel. +81-99-286-4152, Fax. +81-99-286-4133 Email ohтоми@fish.kagoshima-u.ac.jp |