

CURRICULUM VITAE: Prof. Yunus Daud Mgaya, PhD

Professor Emeritus, University of Dar es Salaam, TANZANIA



1. PERSONAL DATA

Name: Prof. Yunus Daud MGAYA

Nationality: Tanzanian

Name of place and date of birth: Usangi, Mwanga District, Kilimanjaro; 27 July 1957

Address: University of Dar es Salaam, School of Aquatic Sciences and Fisheries Technology, P.O. Box 60091, Dar es Salaam, TANZANIA

Residence: House No. 7, Karafuu St., Off Kanisa Road, Mbezi Beach B; Kinondoni District, Dar es Salaam - TANZANIA

Telephone (Mobile): +255 784 237 774; +255 713 237 774

E-mail: yunusmgaya@gmail.com

2. EDUCATION

<i>Qualification</i>	<i>Dates</i>	<i>Universities/Colleges/Schools</i>
Ph.D. (Aquaculture)	1991-1995	National University of Ireland, Galway
M.Sc. (1 st Class, Fisheries Biology)	1987-1989	University of British Columbia, Canada
B.Sc. (1 st Class Hons., Zoology; Marine Biology)	1983-1986	University of Dar es Salaam, TZ
Diploma (Credit, Animal Production)	1979-1981	Uyole Agricultural Centre, Mbeya, TZ
Form Six (A-level) Certificate (PCB)	1976-1977	Moshi Secondary School, Kilimanjaro, TZ
Form Four (O-level) Certificate (Science)	1972-1975	Tambaza Secondary School, Dar es Salaam, TZ

3. ACADEMIC POSTS HELD AT THE UNIVERSITY OF DAR ES SALAAM

<i>Post</i>	<i>Dates</i>
Tutorial Assistant	April 1986–June 1988
Assistant Lecturer	July 1988–June 1993
Lecturer	July 1993–June 1997
Senior Lecturer	July 1997–June 2002
Associate Professor	July 2002–June 2006
Professor	July 2006–Present

4. PREVIOUS EMPLOYMENT

<i>Post</i>	<i>Dates</i>
Livestock Field Assistant	June 1981–June 1983

5. ADMINISTRATIVE POSTS HELD AT THE UNIVERSITY OF DAR ES SALAAM

- 1997–2000: Coordinator, Faculty of Science Planning Coordination Unit
- 1997–2006: Member, Faculty of Science Board
- 1997–2000: Member, Institute of Marine Sciences Board
- 2000–2003: Member, Library Senate Committee
- 2000–2002: Associate Dean (Administration), Faculty of Science
- 2003–Nov 2006: Dean, Faculty of Aquatic Sciences and Technology
- 2003–Dec 2014: Member, University of Dar es Salaam Senate
- 2006 Dec 5th–2014 Dec 4th: Deputy Vice Chancellor (Planning, Finance and Administration (DVC–PFA))
- 2006–2014: Participated in the University of Dar es Salaam Council and its Committees' meetings as DVC–PFA
- 2015–2021: Member, University of Dar es Salaam (UDSM) Council
- 2015–2021: Member, Student Affairs Committee

- 2015–2021: Member, Appointments Committee
- 2015–2021: Member, Bureau of Council
- 2020–2021: Member, UDSM Staff Disciplinary Appeals Committee
- 2021–To date: Chairman, University of Dar es Salaam Computing Centre Board of Directors

6. ADMINISTRATIVE POSTS HELD OUTSIDE THE UNIVERSITY OF DAR ES SALAAM

- 1997–2006: Western Indian Ocean Marine Science Association (WIOMSA) Country Coordinator
- 1998–2002: Facilitator, Mariculture Working Group of the Tanzania Coastal Management Partnership
- 2000–2006: Member, Editorial Board, The African Journal of Tropical Hydrobiology and Fisheries
- 2002–2010: Member, Editorial Board, Western Indian Ocean Journal of Marine Science
- 2002–2006: External Examiner, Department of Fisheries, Moi University, Kenya
- 2003–2008: Member, Board of Directors, Tanzania Fisheries Research Institute
- 2003–2013: Chairman, Mbegani Fisheries Development Centre Advisory Board
- 2003–To date: Chairman, East Africa Water Association (Tanzania Chapter)
- 2004–2006: External Examiner, Department of Natural Resources and Conservation, University of Namibia
- 2004–2008: Chairman, Board of Trustees, Tanzania Marine Parks and Reserves Unit
- 2008–2014: External Examiner, M.Sc. (Hydrobiology) Programme, School of Biological Sciences, University of Nairobi
- 2008–2019: Chairman, Sea Sense (a marine conservation NGO)
- 2009–To date: Chairman, Tanzania – Ireland Alumni Association
- 2009–2016: Chairman, Board of Directors, Tanzania Fisheries Research Institute
- 2010–2018: Member, Board of Trustees of the International Foundation for Science (IFS), Sweden
- 2013–2018: Honourable Treasurer, The Tanzania Academy of Sciences (TAAS)
- 2014 Nov–2019 June: Chairman, Ministerial Advisory Board, Drilling & Dam Construction Agency.
- 2014 Dec–2016 May: Executive Secretary, Tanzania Commission for Universities (TCU)
- 2015 Jan–2016 May: Member, Inter-University Council for East Africa (IUCEA) Quality Assurance Committee
- 2016 Dec–2022 Sept: Director General, National Institute for Medical Research (NIMR)
- 2016–To date: Chairman, TWAS Membership Advisory Committee in Biological Systems & Organisms
- 2016–2018: Member, Executive Committee of the Board of Trustees of IFS
- 2016–2019: Champion (Tanzania), Northern Mozambique Channel Initiative
- 2016 Dec–2022 Sept: Commissioner, East African Health Research Commission (of the East African Community)
- 2016–2018: Member, Ifakara Health Institute Board of Trustees
- 2017–2020: Member and Vice Chairman, National Environmental Trust Fund
- 2017–To date: Chairman, Young Scientists Tanzania
- 2017–2019: Member, University of Dodoma Senate
- 2017–2022: Member, University of Dodoma (UDOM) Council
- 2017–2022: Member, Western Indian Ocean Marine Science Association (WIOMSA) Board of Trustees
- 2018–2022: Treasurer, WIOMSA
- 2018–To date: President, Tanzania Academy of Sciences
- 2018–2022: Chairman, Ifakara Health Institute Board of Governors
- 2019–2022: Member, UDOM Health Board
- 2019–2022: Member, UDOM Planning, Finance, Estates and Investments Committee
- 2020–2022: Member, Zanzibar Health Research Institute Board of Directors
- 2021–2022: Member, UDOM Staff/Student Disciplinary Appeals Committee
- 2021–To date: Chairman, Kampala International University in Tanzania (KIUT) Council
- 2021–2024: Chairman, Tanzania Fisheries Corporation (TAFICO)
- 2021–To date: Chairman, University of Dar es Salaam Computing Centre (UCC) Board of Directors
- 2022 Dec–To date: Member, Independent Biodiversity and Livelihoods Advisory Committee (IBLAC) of the East African Crude Oil Pipeline (EACOP)
- 2023 Jan–To date: Chancellor, Kampala International University in Uganda
- 2023–To date: Chairman, Board of Governors, The College of African Wildlife Management (CAWM), Mweka

7. INVOLVEMENT IN SEARCH COMMITTEES FOR LEADERSHIP POSITIONS IN HIGHER LEARNING INSTITUTIONS

I have been appointed to serve on several search committees established by governing bodies of various institutions, including universities and other higher education organizations, as follows:

Institution/Position	Position/No. of Searches	Role
Universities (VC, DVC, Dean)	Vice Chancellor (3)	Chairman
	Vice Chancellor (2)	Member
	Deputy VC (5)	Chairman
	Deputy VC (8)	Member
	Dean (4)	Member
	Director Student Services (1)	Member
Colleges (Rector, Provost, Deputy Rector)	Rector (1)	Chairman
	Provost (1)	Member
	Deputy Rector (1)	Chairman
	Principal (1)	Chairman
Institute/Academy	Deputy Rector (4)	Chairman
	Directors (3), Unit Head (2)	Chairman
Regulatory Authority (Executive Secretary)	Executive Secretary (1)	Member

8. PROFESSIONAL AFFILIATION

Society	Dates (Since)
Wildlife Conservation Society of Tanzania	1989
Network of Tropical Fisheries Scientists (Manila)	1990
Asian Fisheries Society (Manila, Philippines)	1990
Western Indian Ocean Marine Science Association (WIOMSA)	1995
Network of Tropical Aquaculture Scientists (Manila)	1996
The Tanzania Academy of Sciences (Fellow)	2013
The African Academy of Sciences (Fellow)	2013
The World Academy of Sciences (Fellow)	2014

9. AWARDS

- Council and Senate recognition of the outstanding service and significant leadership as the Deputy Vice Chancellor (Planning, Finance and Administration) of the University of Dar es Salaam for the period 2006-2014 (Certificate of Appreciation)
- Best Worker (Academic), University of Dar es Salaam, 2008
- WIOMSA recognition of outstanding contribution to advancement in the knowledge of marine and coastal science in the Western Indian Ocean region, 2007 (Certificate and trophy)
- University Council recognition of contribution and support to the Institutional Transformation Programme, 2004 (Certificate)
- Irish Government Scholarship: 1991-1995 (Ireland)
- Commonwealth Scholarship: 1987-1989 (Canada)
- University Prize: Best student in Final Year Degree Examinations, 1986
- Minister of Education Prize: Best Final Year Student in the Faculty of Science, 1986
- Double-Cola Prize: Best Final Year Student with Overall Performance in the Faculty, 1986
- Zoology Prize: Best Second Year Student in Zoology Practicals, 1985
- Vice Chancellor's Prize: Best Student in First Year Degree Examinations, 1984

10. RESEARCH PROJECTS

- 10.1. Some Aspects of the Biology of Silver-bellies Fish *Gerres oyena* Forskal (Perciformes: Gerreidae). Undergraduate Research Project (1986).

- 10.2. Age and Growth of the Mosshead Sculpin *Clinocottus globiceps* Girard with an Assessment of its Role in Production of Tidepool Fishes. M.Sc. Research Project (1988-1989).
- 10.3. Studies on Some Quantitative Aspects of Growth, Genetics and Reproduction of the European Abalone (Ormer) *Haliotis tuberculata* Linnaeus Under Aquaculture Conditions. Ph.D. Research Project (1991-1995).
- 10.4. Socio-economic root causes of biodiversity loss in Tanzania: the case of mangrove forests in the three major deltas of Rufiji, Ruvu and Wami river deltas. Research project commissioned by WWF-US, Washington DC (1998).
- 10.5. A preliminary investigation for an integrated, community-based approach to conservation and restoration on marine ecosystems along the Dar es Salaam coast. Research project commissioned by African Development Foundation, Dar es Salaam (1999).
- 10.6. Investigation of mariculture options in Mafia Island Marine Park. Research commissioned by WWF Tanzania Programme Office, Dar es Salaam (2001).
- 10.7. An analysis of smallholder opportunities in fisheries, coastal and related enterprises in the floodplain and delta areas of the Rufiji River, Tanzania. Research project commissioned by the IUCN supported Rufiji Environment Management Project (2002).
- 10.8. Research Project on experimental spat collecting of the edible oyster, *Saccostrea cucullata* Born (Bivalvia) in the Kunduchi Creek, Dar es Salaam (1999-2000). Funded by Sida/SAREC.
- 10.9. Multidisciplinary research project on environmental studies of Mtoni mangrove ecosystem, Dar es Salaam (2003-2004). Funded by NUFFIC, The Netherlands.
- 10.9. Research Programme on Sustainable Use of Dryland Biodiversity (RPSUD) project entitled "Cyanobacteria composition, distribution and toxin production in Momela Lakes, Arusha, Tanzania." 2005-2009. Funded by Sida/SAREC.
- 10.10. Research Project on the dynamics and evaluation of finger ponds in East African freshwater wetland ecotones using appropriate fish production techniques. Status: 2001-2006. Funded by the European Union.
- 10.11. Research Project on the use of peri-urban mangrove forests as filters and potential phytoremediators of domestic sewage in East Africa (PUMPSEA). 2005-2009. Funded by the European Union.
- 10.12. Research Project on Sea cucumbers, a poorly understood but important coastal resource: national and regional analyses to improve management. 2006-2009. Funded by Sida/SAREC (MASMA).
- 10.13. Research Project on evaluation of different stocking densities for commercial production of Nile tilapia (*Oreochromis niloticus*), with Ningu (*Labeo victorianus*) and African catfish (*Clarias gariepinus*) in earthen ponds. 2006-2010. Funded by Sida/SAREC (VicRes).
- 10.14. Importance of mangroves and seagrass beds as nurseries for coral reef fishes in Tanzania. 2006-2010. Research funded by the Netherlands Foundation for the Advancement of Tropical Research (WOTRO).
- 10.15. Poverty eradication through aquaculture. Research funded by the Leverhulme Trust through the University of Newcastle upon Tyne, UK. 2010-2012.
- 10.16. Water quality management and pollution control strategy in Tanzania. Consultancy work for SMEC International who were contracted by the Ministry of Water and Irrigation (2010).
- 10.17. Implementing an ecosystem approach to fisheries (EAF) in small-scale tropical marine fisheries. Research work funded by EU. 2012-2014.

11. TEACHING/SUPERVISION

11.1 Teaching

Postgraduate supervision: 1 Ph.D. candidate (Nepal).

UNDERGRADUATE DISSERTATIONS

11.2 Supervised and examined:

1. Kajja, Y.S.A.M, 1996. Studies on aspects of homing in the chiton *Acanthopleura spinigera* (Sow) (Mollusca: Polyplacophora). Final year (B.Sc.) Marine Biology project report. 32 pp.
2. Mbije, N.E.J., 1996. Study on the abundance and diversity of benthic fauna at Ocean Road and Harbour seashores along Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 37 pp.
3. Teikwa, E., 1996. The distribution of marine life at Ocean Road and Oyster Bay seashores along the Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 40 pp.
4. Lamtane, H.A., 1997. Some aspects of the ecology of Oyster Bay rocky cliff. Final year (B.Sc.) Marine Biology project report. 41 pp.
5. Lukanga, S.A., 1997. Study on the abundance and diversity of seagrass species and associated macrofauna at Kunduchi and Ocean Road seashores along Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 33 pp.
6. Mosha, E.J., 1998. The distribution of macrobenthos in the mangroves of Kunduchi Creek. Final year (B.Sc.) Marine Biology project report. 32 pp.
7. Vatta, L.J., 1998. Food and feeding habits of *Clarias mossambicus* (Pisces: Clariidae) from Mindu Dam in Morogoro region. Final year (B.Sc.) Marine Biology project report. 57 pp.
8. Abubakar, K.M., 1999. Comparative biodiversity between Kunduchi and Mtoni mangrove habitats with special emphasis to macrobenthos. Final year (B.Sc.) Marine Biology project report. 37 pp.
9. Chando, C. 1999. An ecological assessment of seagrasses and associated biota off Silversands Hotel, Kunduchi, Dar es Salaam. Final year (B.Sc.) Marine Biology project report. 45 pp.
10. Musiba, M.J., 1999. Investigations on the diet and growth of Nile perch, *Lates niloticus* from Speke Gulf, Lake Victoria. Final year (B.Sc.) Marine Biology project report. 34 pp.
11. Swilla, J.D., 2000. Length-weight relationship, fecundity and feeding habits of *Lethrinus lentjan* along the Dar es Salaam coastal waters. Final year (B.Sc.) Marine Biology project report. 41 pp.
12. Ideva, R.J., 2001. Aquaculture potential for tilapia farming in Kibaha District. Final year (B.Sc.) Marine Biology project report. 49 pp.
13. Mbonde, A., 2002. A review of the status of aquaculture development in Tanzania and experimental studies on tilapia stocking densities and an integrated system. Final year (B.Sc.) Marine Biology project report. 37 pp.
14. Maskini, P., 2005. Aspects of benthic ecology of the Kunduchi Beach Hotel foreshore following the building up of sand bar. Final year (B.Sc.) Aquatic Science project report. 38 pp.
15. Limbu, S., 2007. Effect of domestic sewage on survival and growth of the snail *Terebralia palustris* (Linnaeus 1758) in planted mangroves at Kunduchi, Dar es Salaam. Final year (B.Sc.) Fisheries and Aquaculture project report. 24 pp.
16. Mpemba, T.G., 2007. Comparative study in abundance and diversity of benthic macrofauna between

- Mjimwema and Ocean Road beaches. Final year (B.Sc.) Aquatic Environmental Science and Conservation project report. 13 pp.
17. Robert, A., 2007. Comparative study on the abundance and distribution of benthic macrofauna at Ocean Road and Oysterbay beaches. Final year (B.Sc.) Fisheries and Aquaculture project report. 20 pp.
 18. Joseph, M., 2012. Distribution and abundance of benthic macrofauna at Oysterbay rocky shore. Final year (B.Sc.) Aquatic Environmental Science and Conservation project report. 39 pp.

POSTGRADUATE THESES

11.3 Supervised and Examined:

M.Sc. work

1. Mhitu, H.A., 1997. The reproductive biology of the squid, *Sepioteuthis lessoniana* (Lesson, 1830) in the coastal waters of Zanzibar. M.Sc. Thesis, University of Dar es Salaam. 100 pp.
2. Mjimwa, F.A., 1998. Dynamics of dema trap finfish catches in the coastal waters of Zanzibar, Tanzania. M.Sc. Thesis, University of Dar es Salaam. 103 pp.
3. Mlay, A.P., 1999. Ecology of the intertidal zone of selected sandy/muddy shores in the Dar es Salaam area. M.Sc. Thesis, University of Dar es Salaam. 171 pp.
4. Nzali, L., 1999. Recruitment patterns of Scleractinian corals along the Tanga coastline. M.Sc. Thesis, University of Dar es Salaam. 106 pp.
5. Lugendo, B.R., 2000. Distribution and ecology of intertidal seagrass communities at Ocean Road and Kunduchi areas, Dar es Salaam. M.Sc. Thesis, University of Dar es Salaam. 144 pp.
6. Suleiman, M., 2000. Nutrient dynamics in the sediments and water column on sewage polluted and non-polluted coral reefs on selected sites on the west coast of Unguja Island. M.Sc. Thesis, University of Dar es Salaam. 72 pp.
7. Teikwa, E.D., 2002. Reproductive biology and fishery potential of penaeid prawns of Bagamoyo coastal waters. M.Sc. Thesis, University of Dar es Salaam. 129 pp.
8. Kuguru, B.L., 2002. Distribution and abundance of the Corallimorpharia (Cnidaria: Anthozoa) on selected reefs around Zanzibar. M.Sc. Thesis, University of Dar es Salaam. 121 pp.
9. Yahya, S., 2003. Ecology and reproductive biology of *Octopus cyanea* in Zanzibar waters. M.Sc. Thesis, University of Dar es Salaam.
10. Kimirei, I., 2005. Variability in pelagic fish catches and the physico-chemical parameters in Kigoma Bay, Lake Tanganyika. M.Sc. Thesis, University of Dar es Salaam. 157 pp.
11. Frederk, G., 2005. Influence of sewage pollution at Ocean Road beach on the marine environment. M.Sc. Dissertation, University of Dar es Salaam. 91 pp.
12. Chingege, J.H.H., 2005. Influence of sewage pollution on seagrasses and seaweeds at Ocean Road beach, Dar es Salaam. M.Sc. Dissertation, University of Dar es Salaam. 83 pp.
13. Elias, J., 2006. Abundance and species composition of crabs and mollusks in different mangrove stands at Kunduchi, Dar es Salaam. M.Sc. Dissertation, University of Dar es Salaam. 75 pp.
14. Waya, R.K., 2008. Zooplankton dynamics in Shirati Bay, Lake Victoria with special emphasis on the copepods. M.Sc. Thesis, University of Dar es Salaam. 163 pp.

15. Sallema, R.E., 2008. Population distribution and differentiation of mangrove and rocky shore gastropods (*Littoraria* spp.) in Dar es Salaam, Mnazi Bay-Ruvuma Estuary and Inhaca Island in Mozambique. M.Sc. Thesis, University of Dar es Salaam. 150 pp.
16. Mahenge, J., 2009. Growth and reproduction of palaemonid shrimp *Palaemon concinnus* and morphometric differentiation of the sesamid crab *Perisesarma guttatum* selected mangroves along the coast of Tanzania. M.Sc. Thesis, University of Dar es Salaam. 131 pp.
17. Ngaiza, S.J., 2009. The impact of resurgence of haplochromine species on *Rastrineobola argentea* population in Mwanza Gulf, Lake Victoria - Tanzania. 73 pp.
18. Ulega, A.H., 2024. Contribution of marine fisheries to fisheries industrialization and livelihoods improvements of coastal communities in Tanzania. MA Thesis, Open University of Tanzania. 120 pp.

Ph.D. work

1. Chande, A.I., 1999. The biology and fishery potential of the crab *Portunus pelagicus* (Linnaeus, 1766) along the coast of Dar es Salaam. Ph.D. Thesis, University of Dar es Salaam. 289 pp.
2. Kamukuru, A.T., 2003. Effect of fishing on growth and reproduction of the blackspot snapper, *Lutjanus fulvivittatus* (Pisces: Lutjanidae) on reefs of Mafia Island, Tanzania. Ph.D. Thesis, University of Dar es Salaam. 274 pp.
3. Mhando, C.A., 2003. Enhanced coral larval settlement and coral transplantation as means of promoting coral replenishment in Tanzania. Ph.D. Thesis, University of Dar es Salaam. 285 pp.
4. Mnembuka, B.V., 2003. Use of Pigeon peas (*Cajanus cajan*) as a protein supplement for Tilapia (*Oreochromis niloticus*). Ph.D. Thesis, University of Dar es Salaam. 182 pp.
5. Mwita, C.J., 2006. Studies on the determinants of the parasites' community structure of the clariid fishes in Lake Victoria. Ph.D. Thesis, University of Dar es Salaam 197 pp.
6. Lugendo, B.R., 2007. Habitat utilization by fish and the structure of a mangrove food web. Ph.D. Thesis, Radboud University, The Netherlands.
7. Wetengere, K., 2008. Economic factors critical to adoption of fish farming technology. Ph.D. Thesis, Open University of Tanzania. 246 pp.
8. Lamtane, H.A., 2008. Fish stocks and comparative yields from East African self-stocked fingerponds. Ph.D. Thesis, University of London (King's College). 246 pp.
9. Mwandya, A.W., 2009. Fish community patterns in Tanzanian mangroves. Ph.D. Thesis, Stockholm University, Sweden.
10. Yahya, S., 2011. Aspects of bleaching, habitat structure and management effects on coral reef fish communities. Ph.D. Thesis, Stockholm University, Sweden.
11. Kayanda, R., 2012. Discrimination of major fish species encountered in acoustic surveys of Lake Victoria. Ph.D. Thesis, University of Dar es Salaam. 208 pp.
12. Kimirei, I.A., 2012. Importance of mangroves and seagrass beds as nurseries for coral reef fishes in Tanzania. Ph.D. Thesis, Radboud University, The Netherlands. 202 pp.
13. Shoko, A.P., 2013. Aquaculture of Nile tilapia (*Oreochromis niloticus* Linnaeus, 1758) with an assessment of its economic benefits in the Lake Victoria basin, Tanzania. Ph.D. Thesis, University of Dar es Salaam. 218 pp.

14. Igulu, M.M., 2014. Migration and habitat selection by tropical reef fishes. Ph.D. Thesis, Radboud University, The Netherlands. 152 pp.
15. Mwakosya, C.A., 2016. Abundance, distribution and reproductive biology of two selected penaeid prawns in Tanzanian waters. Ph.D. Thesis, University of Dar es Salaam. 185 pp.
16. Grayson, J.M., 2016. Genetic stock structure and life history of *Euthynnus affinis* Cantor (1849) and *Scomberomorus commerson* Lacepède (1800) fishes in the northern coastal waters of Tanzania. Ph.D. Thesis, University of Dar es Salaam. 273 pp.
17. Elias, J., 2017. Development of simple and cost-effective bio-monitoring method for assessing water pollution in Tanzanian rivers. PhD Thesis, Nelson Mandela African Institution of Science and Technology. 127 pp.
18. Mmbaga, T.K., 2017. The ecology and management of sea cucumbers in Tanzania. PhD Thesis, University of Dar es Salaam. 215 pp.
19. Simtoe, A.P., 2024. Studies on the influence of artificial feeds on growth performance and immune response of farmed black tiger prawn *Penaeus monodon* (Fabricius, 1798). PhD Thesis, University of Dar es Salaam. 183 pp.
20. Yadav Prasad Humagain, 2026. Understanding Agriculture Policy Capacity of Nepal with Reflection from Asia and Africa. PhD Thesis, Agriculture and Forestry University, Rampur, Chitwan, Nepal. 241 pp.

11.4 Supervision of Ongoing Postgraduate Work

M.Sc. work

None

Ph.D. work

None

11.5 Examined as External Examiner

B.Sc. work

I served as an External Examiner for the B.Sc. programme (Aquatic Sciences and Fisheries) at the following universities:

- 2002–2006: Department of Fisheries, Moi University, Kenya
- 2004–2006: Department of Natural Resources and Conservation, University of Namibia

M.Sc. work

I served as an External Examiner for the M.Sc. Hydrobiology and M.Phil. Fisheries programmes, respectively at the University of Nairobi, Kenya from 2008 to 2014 and Moi University, Kenya (2002-2006).

I also examined the following theses/dissertations at various universities as follows:

1. P.E. Nsinda, 2002. The impact of net sizes on the status of Dagaa (*Rastrineobola argentea*) stocks from Tanzania waters of Lake Victoria. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
2. R. Rugadya, 2003. The impact of mirror carp (*Cyprinus carpio* L. on aquatic environment. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
3. E. Rukuunya, 2003. The effect of sunken water hyacinth biomass on dissolved oxygen and food of major inshore species in northern Lake Victoria, Uganda. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
4. R. Mugo, 2003. A comparative study on the growth and economic performance of Nile tilapia (*Oreochromis niloticus*) fed on maize bran, wheat bran, and rice bran in fertilized ponds. M.Sc. Dissertation, Moi University, Eldoret, Kenya.
5. M.O. Mohammed, 2003. Fish catch composition and biology of *Siganus sutor* in the Malindi/Kilifi inshore waters. M.Sc. Dissertation, Moi University, Eldoret, Kenya.

6. A.M. Taabu, 2004. Variation in catch composition of *Rastrineobola argentea* Pellegrin ("mukene") fishery in relation to distance from shore on Lake Victoria (Uganda). M.Sc. Dissertation, Makerere University, Kampala, Uganda.
7. S.K. Macharia, 2004. Comparative study of hatching rates of African catfish (*Clarias gariepinus* Burchell 1822) eggs on different substrates and the survival of hatchlings to fingerlings fed on three feed types. M.Sc. Thesis, Moi University, Eldoret, Kenya.
8. D.N. Oenga, 2005. The Introduction history and induced spawning of naturalized largemouth bass *Micropterus salmoides* (Lacepede), Kenya. M.Sc. Thesis, Moi University, Eldoret, Kenya.
9. F.M. Mwonjoria, 2006. Fish and benthic communities as indicators of mangrove ecosystem recovery in Gazi Bay – Kenya. M.Sc. Thesis, University of Nairobi, Nairobi, Kenya.
10. O.P. Odhiambo, 2006. Population aspects of sea cucumbers (Echinodermata: Holothuroidea) in protected and unprotected reefs along the southern Kenya coast. M.Sc. Thesis, University of Nairobi, Nairobi, Kenya.
11. R. Nalukwago, 2009. The fish species composition and population characteristics of *Oreochromis niloticus* in Lake Kijanebalola. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
12. G.H. Nicholson, 2014. Towards understanding the effects of stocking density on farmed South African abalone, *Haliotis midae*. M.Sc. Thesis, Rhodes University, Grahamstown, South Africa.
13. J. Lusana, 2018. High-throughput DNA metabarcoding and community structure of ichthyoplankton in the Oujiang River mouth and Yueqing Bay. M.Sc. Thesis, Zhejiang Ocean University, Zhejiang, China.

Ph.D. work

I examined the following Ph.D. theses/dissertations:

1. M. Njiru, 2002. Feeding ecology and population characteristics of Nile tilapia, *Oreochromis niloticus* (L.) in Lake Victoria, Kenya. D.Phil. Thesis, Moi University, Eldoret, Kenya.
2. P.O. Raburu, 2003. Water quality and the status of aquatic macro-invertebrates and ichthyofauna in River Nyando, Kenya. D.Phil. Thesis, Moi University, Eldoret, Kenya.
3. J.O. Okaronon, 2003. Studies into the distribution and abundance of *Lates niloticus* (L.) and *Oreochromis niloticus* (L.) in Lake Victoria. Ph.D. Dissertation, Makerere University, Kampala, Uganda.
4. D. Mbabazi, 2005. Trophic characterization of the dominant fishes in the Victoria and Kyoga basins. Ph.D. Dissertation, Makerere University, Kampala, Uganda.
5. E.N. Kimani, 2005. The populations, reproduction, settlement and growth patterns of pearl oysters in Kenya. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
6. D.O. Sigana, 2009. The distribution and biology of Mugilidae from Kilifi, a tropical mangrove creek on the Kenya coast. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
7. M.A. Kyalo, 2009. Response of benthic fauna to mangrove degradation and restoration in Gazi Bay – Kenya. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
8. A.G. Kateka, 2010. Co-management challenges in the Lake Victoria fisheries: A context approach. Ph.D. Dissertation, Sodertons University/Stockholm University, Sweden. (I participated as an Opponent during the defence held on 11th February 2010).
9. G.M. Kivengea, 2014. Fishery, reproductive and feeding biology of common octopus *Octopus vulgaris* (Curvier, 1797) on the Kenyan South Coast. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.

10. A.G. Locham, 2016. Spatial variation in life history traits of the marbled parrotfish, *Leptoscarus vaigiensis* (Quoy and Gaimard 1824) in coastal Kenya. Ph.D. Thesis, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya.
11. G.B.M. Okemwa, 2017. Spatio-temporal dynamics of the marine aquarium fishery and recruitment of reef fishes in coastal Kenya. Ph.D. Thesis, University of Eldoret, Eldoret, Kenya.
12. E. Kimakwa, 2022. The application of biological aspects in the management of tuna and tuna-like species in the Kenyan waters. Ph.D. Thesis, University of Nairobi, Kenya.
13. J.S. Sululu, 2026. Investigation of selected aspects of the biology, feeding ecology and stock status of mackerel scad, *Decapterus macarellus* (Cuvier, 1833) along the coastal waters of Tanga and Bagamoyo, Tanzania. Ph.D. Thesis, University of Dar es Salaam, Tanzania.

12. SELECTED SHORT COURSES, CONFERENCES, SEMINARS, AND WORKSHOPS

- Participated in a "Teaching Methodology Course", organized by University Teaching and Learning Improvement Programme (UTLIP), University of Dar es Salaam, 16–27 June 1986.
- Participated in a "Workshop on Waterfowl and Wetland Management Workshop" organized by International Waterfowl and Wetlands Research Bureau, Mweya and Kampala, Uganda, 3–12 March 1990.
- Participated in a "Computer Sensitization Course", organized by University Teaching and Learning Improvement Programme (UTLIP), University of Dar es Salaam, 18–25 October 1990.
- Attended a series of lectures and practicals in Aquaculture at the Shellfish Research Laboratory, University College Galway, Ireland, October 1991 to March, 1992.
- Participated in a "Workshop and Training Course on the Biology, Management, Cultivation and Stock Enhancement of Lobsters (*Homarus* spp.)", Galway, Ireland, 18–22 April 1994.
- Participated in "Advanced Technologies for Aquaculture Development Course", University College Galway, Ireland, 7–9 November 1994.
- Participated in a "Workshop on Research Methods for Phytoplankton Primary Production and Bacterioplankton Secondary Production", organized by Sida Marine Science Program, Kenya Marine Fisheries Research Institute, Mombasa, Kenya, 18–21 March 1996.
- Participated in a Coral Reefs of the Western Indian Ocean Workshop, Mombasa 25 February to 1 March 1997.
- Attended the Mariculture Workshop, Dar es Salaam 4–12 March 1998.
- Attended the First National Orientation Training Course on Environmental Impact Assessment, organized by the Institute of Resource Assessment, University of Dar es Salaam and International Institute for Environment and Development, UK, 23–31 March 1998.
- Participated in a study tour to the Marine Protected Areas in USA (Cumberland Island, Georgia; Florida Keys; US Virgin Islands), 31 July to 17 August 1999.
- Attended a short course on "Planning and Management for Sustainable Coastal Aquaculture Development" at Asian Institute of Technology, Thailand, 12th June to 7th July 2000.
- Attended a short course on "Marine Shrimp and Finfish Seed Production" at Asian Institute of Technology, Thailand, 10th July to 4th August 2000.
- Participated in East African Marine Ecoregion Visioning Workshop, 23–28 April 2001.
- Attended Second WIOMSA Scientific Symposium entitled "Advances in Marine Sciences in East Africa: Setting the Research Agenda", Dar es Salaam, 22–26 October 2001.
- Participated in Scientific Symposium on Environment, University of Dar, 23–26 September 2002.
- Participated in "A Training Course on the Integration of ICT in Teaching and Learning", organized by the Centre for Continuing Education, University of Dar es Salaam, 14–18 July 2003.
- Participated in a Workshop on "Marine Biodiversity in Sub-Saharan Africa, Cape Town, South Africa, 23–26 September 2003.
- Attended Third Western Indian Ocean Marine Science Association (WIOMSA) Scientific Symposium entitled "Advances in Marine Science in Eastern Africa: Multi/trans-disciplinary Research for Improved Management of Resources", Maputo, Mozambique, 12–18 October 2003.
- Attended a Symposium entitled "Ecohydrology and Physical Fish Habitat Modifications in Lakes", Mondsee, Austria, 27–28 November 2003.

- Participated in Southern Africa Coastal Management (COASTMAN) Workshop and Short Course “Resolving Coastal Conflicts in an Intercultural Context”, organized by INWENT (Capacity Building International, Germany) and University of Kwazulu-Natal, Maputo, Mozambique, 21–25 February 2005.
- Completed a “Research Management Training” course conducted at the University of Dar es Salaam by The Society of Research Administration International, USA, 1–5 August 2005.
- Participated in Southern Africa Coastal Management (COASTMAN) Training of Trainers Workshop “How to Implement Community-Based Coastal Zone Management Successfully”, organized by INWENT (Capacity Building International, Germany), Walvis Bay, Namibia, 5–10 December 2005.
- Participated in “Advanced Leadership Training Workshop for Marine Environmental Managers in the Western Indian Ocean”, organized by ORI, UNEP and GEF, Durban, Republic of South Africa, 2–6 October 2006.
- Participated in Southern Africa Coastal Management (COASTMAN) Training of Trainers Workshop “ICZM and the concept of marine/coastal protected areas – how to deal with conflicting claims regarding the use of coastal resources”, organized by INWENT (Capacity Building International, Germany), Cape Town, South Africa, 20–24 November 2006.
- Participated in a short course on “Management of Higher Education Institutions”, at the Galilee International Management Institute, Israel, 16–27 June 2011.
- Participated in a workshop on “Mastering Board Meetings: Effective and Strategic Leadership” organized by Tanzania Global Learning Agency and VINSYS (India), Dubai, United Arab Emirates, 10–14 August 2015.
- Participated in a training session on “Essentials of Public Leadership” organized by Uongozi Institute, Dar es Salaam, 28-29 April 2022.
- Participated in a Seminar on “Leadership and Governance of Higher Learning Institutions in Tanzania” organised by Uongozi Institute, Dar es Salaam, 4-5 September 2024.

13. PUBLICATIONS

<https://scholar.google.com/citations?user=l7aa6-sAAAAJ&hl=en>; 5,285 citations; h-index 41; i10-index 83)

13.1 Publications in Refereed Journals

- 13.1.1 Mgaya, Y.D., 1992. Density and production of *Clinocottus globiceps* and *Oligocottus maculosus* (Cottidae) in tidepools at Helby Island, British Columbia. *Marine Ecology Progress Series* 85: 219-225. <http://doi.org/10.3354/meps085219>
- 13.1.2 Machiwa, J.F., Mgaya, Y.D. and Ndaro, S.G.M., 1992. A preliminary consideration of the role of mangroves in nutrient and organic fluxes in the Rufiji delta system, Tanzania. *East Africa Journal of Sciences* 1B(1): 15-27.
- 13.1.3 Mgaya, Y.D. and Mercer, J.P., 1994. A review of the biology, ecology, fisheries and mariculture of the abalone, *Haliotis tuberculata* Linnaeus 1758 (Gastropoda: Haliotidae). *Biology and Environment: Proceedings of the Royal Irish Academy* 94B(3): 285-304.
- 13.1.4 Mgaya, Y.D., 1995. Age and growth analysis of the mosshead sculpin *Clinocottus globiceps* Girard from Helby Island, British Columbia. *Journal of Applied Ichthyology* 11(1-2): 50-59. <https://doi.org/10.1111/j.1439-0426.1995.tb00005.x>
- 13.1.5 Mgaya, Y.D., 1995. Synopsis of biological data on the European abalone (ormer), *Haliotis tuberculata* Linnaeus 1758 (Gastropoda: Haliotidae). *FAO Fisheries Synopsis* 156: 1-28.
- 13.1.6 Mgaya, Y.D. and Mercer, J.P., 1995. The effects of size grading and stocking density on growth performance of juvenile abalone, *Haliotis tuberculata* Linnaeus. *Aquaculture* 136: 297-312. [https://doi.org/10.1016/0044-8486\(95\)00066-6](https://doi.org/10.1016/0044-8486(95)00066-6)
- 13.1.7 Mgaya, Y.D. and Mercer, J.P., 1995. Characterisation of size variability and the effect of intraspecific competition on the development of size variation in the abalone, *Haliotis tuberculata* Linnaeus. *Biology and Environment: Proceedings of the Royal Irish Academy* 95B(2): 77-86.
- 13.1.8 Mgaya, Y.D., Gosling, E.M., Mercer, J.P. and Donlon, J., 1995. Genetic variation at three polymorphic loci in wild and hatchery stocks of the abalone *Haliotis tuberculata* Linnaeus. *Aquaculture* 136: 71-80. [https://doi.org/10.1016/0044-8486\(95\)01037-8](https://doi.org/10.1016/0044-8486(95)01037-8)
- 13.1.9 Mgaya, Y.D., 1997. Global warming: a threat to human societies and natural ecosystems. *Tanzania Journal of Science* 22&23: 65-74.
- 13.1.10 Nzali, L.M., Johnstone, R. and Mgaya, Y.D., 1998. Factors affecting coral recruitment on a nearshore reef in Tanzania. *Ambio* 27(8): 717-722.
- 13.1.11 Semesi, A.K., Mgaya, Y.D., Muroke, M.H.S., Francis, J., Mtolera, M. and Msumi, G., 1998. Coastal resources

- utilization and conservation issues in Bagamoyo. *Ambio* 27(8): 635-644.
- 13.1.12 Mgaya, Y.D., 2000. A quantitative genetic analysis of juvenile growth for the abalone *Haliotis tuberculata* Linnaeus. *Recent Advances in Marine Biotechnology (Aquaculture)* 4A: 59-73.
 - 13.1.13 Mgaya, Y.D., 2001. Experimental spat collecting of the edible oyster, *Saccostrea cucullata* Born (Bivalvia) in the Kunduchi Creek, Dar es Salaam. *Tanzania Journal of Science* 27A: 67-81. DOI: [10.4314/tjs.v27i2.18347](https://doi.org/10.4314/tjs.v27i2.18347)
 - 13.1.14 Hartnoll, R.G., Cannicci, S., Emmerson, W.D., Fratini, S., Macia, A., Mgaya, Y., Porri, F., Ruwa, R.K., Shunula, J.P., Skov, M.W., Vannini, M., 2002. Geographic trends in mangrove crab abundance in East Africa. *Wetlands Ecology and Management* 10: 203-213. <http://dx.doi.org/10.1023/A:1020123713133>
 - 13.1.15 Guard, M. and Mgaya, Y.D., 2002. The artisanal fishery for *Octopus cyanea* Gray (1849) in Tanzania. *Ambio* 31(7-8): 528-536.
 - 13.1.16 Chande, A.I. and Mgaya, Y.D., 2003. The fishery of *Portunus pelagicus* and species diversity of portunid crabs along the coast of Dar es Salaam, Tanzania. *Western Indian Ocean Journal of Marine Science* 2(1): 75-84.
 - 13.1.17 Teikwa, E.D. and Mgaya, Y.D., 2003. Abundance and reproductive biology of Penaeid prawns of Bagamoyo coastal waters, Tanzania. *Western Indian Ocean Journal of Marine Science* 2(2): 117-126.
 - 13.1.18 Kamukuru, A.T. and Mgaya, Y.D., 2004. The food and feeding habits of blackspot snapper, *Lutjanus fulvivlamma* (Pisces: Lutjanidae) in shallow waters of Mafia Island, Tanzania. *African Journal of Ecology* 42(1): 49-58.
 - 13.1.19 Kuguru, B.L., Mgaya, Y.D., Öhman, M.C., and Wagner, G.M., 2004. The reef environment and competitive success in the Corallimorpharia. *Marine Biology (Berlin)* 145: 875-884.
 - 13.1.20 Chande, A.I. and Mgaya, Y.D., 2004. Food habits of the blue swimming crab *Portunus pelagicus* along the coast of Dar es Salaam. *Western Indian Ocean Journal of Marine Science* 3(1): 37-42.
 - 13.1.21 Kamukuru, A.T. and Mgaya, Y.D., 2004. Effects of exploitation on reproductive capacity of blackspot snapper, *Lutjanus fulvivlamma* (Pisces: Lutjanidae) in Mafia Island, Tanzania. *African Journal of Ecology* 42: 270-280.
 - 13.1.22 Kamukuru, A.T., Mgaya, Y.D. and Öhman, M., 2004. Evaluating a marine protected area in a developing country: Mafia Island Marine Park, Tanzania. *Ocean and Coastal Management* 47(7-8): 321-337.
 - 13.1.23 Mmbaga, T.K. and Mgaya, Y.D., 2004. Sea cucumber fishery in Tanzania: Identifying the gaps in resource inventory and management. *FAO Fisheries Technical Paper* 463: 193-203.
 - 13.1.24 Kamukuru, A.T. Hecht, T. and Mgaya, Y.D., 2005. Effects of exploitation on age, growth and mortality of the blackspot snapper, *Lutjanus fulvivlamma* (Lutjanidae) in Mafia Island, Tanzania. *Journal of Fisheries Management and Ecology* 12: 45-55.
 - 13.1.25 Lugendo, B.R., Pronker, A., Cornelissen, I., de Groene, A., Nagelkerken, I., Dorenbosch, M., der Velde, G., and Mgaya, Y.D., 2005. Habitat utilisation by juveniles of commercially important fish species in a marine embayment in Zanzibar, Tanzania. *Aquatic Living Resources* 18: 149-158.
 - 13.1.26 Lugomela, C., Pratap, H.B. and Mgaya, Y.D., 2006. Cyanobacteria blooms—a possible cause of mass mortality of Lesser Flamingos in Lake Manyara and Lake Big Momela, Tanzania. *Harmful Algae* 5: 534-541.
 - 13.1.27 Lugendo, B.R., Nagelkerken, I., der Velde, G., and Mgaya, Y.D., 2006. The importance of mangroves, mud/sand flats and seagrass beds as feeding areas for juvenile fishes in Chwaka Bay, Zanzibar: gut content and stable isotope analysis. *Journal of Fish Biology* 69: 1639-1661.
 - 13.1.28 Kimirei, I.A. and Mgaya, Y.D., 2006. Assessment of the status of *Lates stappersii* (Centropomidae) stock in lift-net fishery in Lake Tanganyika, Kigoma, Tanzania. *Tanzania Journal of Science* 32(2): 1-12.
 - 13.1.29 Mwita, C.J., Nkwengulila, G. and Mgaya, Y.D., 2006. Lake Victoria parasites of clariid fishes 18S ribosomal nucleotide sequences. GeneBank, Acc. No. DQ813444-DQ813465. In: www.ncbi.nlm.nih.gov.
 - 13.1.30 Mwita, C.J., Nkwengulila, G. and Mgaya, Y.D., 2006. Lake Victoria parasites of clariid fishes cyt. b.nucleotide sequences. GeneBank, Acc. No. DQ646345-DQ646374. In: www.ncbi.nlm.nih.gov.
 - 13.1.31 Conand, C., Muthiga, N., Aumeeruddy, R., De La Torre Castro, M., Frouin, P., Mgaya, Y., Mirault, E., Ochiewo, J., and Rasolofonirina, R., 2006. A three-year project on sea cucumbers in the southwestern Indian Ocean: National and regional analyses to improve management. *SPC Beche-de-mer Information Bulletin* No. 23: 11-15.
 - 13.1.32 Lugendo, B.R., Nagelkerken, I., Jiddawi, N., Mgaya, Y.D. and van der Velde, G., 2007. Fish community composition of a tropical non-estuarine embayment in Zanzibar, Tanzania. *Fisheries Science* 73: 1213-1223.
 - 13.1.33 Lugendo, B.R., Nagelkerken, I., Kruitwagen, G., van der Velde, G. and Mgaya, Y.D. 2007. The relative importance of mangroves as feeding habitats for fishes: A comparison among mangrove habitats with different settings. *Bulletin of Marine Science* 80(3): 497-512.
 - 13.1.34 Lugendo, B.R., de Groene, A., , Cornelissen, I., Pronker, A., Nagelkerken, I., der Velde, G., and Mgaya, Y.D.,

2007. Spatial and temporal variation in fish community of a marine embayment in Zanzibar, Tanzania. *Hydrobiologia* 586: 1-16.
- 13.1.35 Kimirei, I.A. and Mgaya, Y.D., 2007. Influence of environmental factors on seasonal changes in clupeid catches in the Kigoma area of Lake Tanganyika. *African Journal of Aquatic Science* 32(3): 291-298.
- 13.1.36 Kaaya, L-T., Lugomela, C. and Mgaya, Y.D., 2007. Spatial and temporal variations in phytoplankton species composition, abundance, biomass and productivity in the selected Momela Lakes, Arusha, Tanzania. *Discovery and Innovation* 19: 25-31.
- 13.1.37 Kimirei, I.A. and Mgaya, Y.D. and Chande, A.I., 2008. Changes in species composition and abundance of commercially important fish population in Kigoma Area, Lake Tanganyika, Tanzania. *Aquatic Ecosystem Health and Management* 11(1): 29-35.
- 13.1.38 Lyimo, T.J., Mvungi, E.F. and Mgaya, Y.D., 2008. Abundance and diversity of seagrass and macrofauna in the inter-tidal areas with and without seaweed farming activities in the east coast of Zanzibar. *Tanzania Journal of Science* 34: 41-52.
- 13.1.39 Mwandya, A.W., Gullström, M., Öhman, M.C., Andersson, M.H. and Mgaya, Y.D., 2009. Fish assemblages in Tanzanian mangrove creek systems influenced by solar salt farm constructions. *Estuarine, Coastal and Shelf Science* 82: 193-200.
- 13.1.40 Mgaya, Y.D. and Lokina, R., 2010. Critical success factors in higher education finance and planning: An institutional perspective. *Sarua Leadership Dialogue Series 2* (2): 53-64.
- 13.1.41 Penha-Lopes, G., Bartolini, F., Limbu, S., Cannicci, S., Mgaya, Y., Kristensen, E. and Paula, J., 2010. Ecosystem engineering potential of the gastropod *Terebralia palustris* (Linnaeus, 1767) in mangrove wastewater wetlands - A controlled mesocosm experiment. *Environmental Pollution* 158: 258-266.
- 13.1.42 Mwandya, A.W., Mgaya, Y.D., Öhman M.C., Bryceson, I., and Gullström, M., 2010. Distribution patterns of the striped mullet (*Mugil cephalus*) in mangrove creeks of Zanzibar, Tanzania. *African Journal of Marine Science* 32(1): 85-93.
- 13.1.43 Kruitwagen, G., Nagelkerken, I., Lugendo, B.R., Mgaya, Y.D. and Wendelaar Bonga, S.E., 2010. Importance of different carbon sources for macroinvertebrates and fishes of an interlinked mangrove-mudflat ecosystem (Tanzania). *Estuarine, Coastal and Shelf Science* 88: 464-472.
- 13.1.44 Mwandya, A.W., Gullström, M., Andersson, M.H., Öhman M.C., Mgaya, Y.D. and Bryceson, I., 2010. Spatial and seasonal variations of fish assemblages in mangrove creek systems in Zanzibar (Tanzania). *Estuarine, Coastal and Shelf Science* 89: 277-286.
- 13.1.45 Oenga, D.N., Mgaya, Y.D., Mbahinzireki, G., Shoko, A.P. and Nyanchiri, E.M., 2010. Evaluation of yields and growth performance of Nile tilapia (*Oreochromis niloticus*), with uringu (*Labeo victorianus*) and African catfish (*Clarias gariepinus*) in earthen ponds in Kenya. *Journal of the National Aquatic Resources Research and Development Agency* 40: 33-47.
- 13.1.46 Kimirei, I.A., Nagelkerken, I., Griffioen, B., Wagner, C. and Mgaya, Y.D., 2011. Ontogenetic habitat use by mangrove/seagrass-associated coral reef fishes shows flexibility in time and space. *Estuarine, Coastal and Shelf Science* 92: 47-58.
- 13.1.47 Igulu, M.M., Nagelkerken, I., Fraaije, R., van Hintum, R., Ligtenberg, H. and Mgaya, Y.D., 2011. The potential role of visual cues for microhabitat selection during the early life phase of a coral reef fish (*Lutjanus fulvivlamma*). *Journal of Experimental Marine Biology and Ecology* 401: 118-125.
- 13.1.48 Yahya, S.A.S., Gullström, M., Öhman, M.C., Jiddawi, N.S., Andersson, M.H., Mgaya, Y.D. and Lindahl, U., 2011. Coral bleaching and habitat effects on colonization of reef fish assemblages: an experimental study. *Estuarine, Coastal and Shelf Science* 94: 16-23.
- 13.1.49 Shoko, A.P., Getabu, A., Mwayuli, G. and Mgaya, Y.D., 2011. Growth performance, yields and economic benefits of Nile tilapia *Oreochromis niloticus* and kales *Brassica oleracea* cultured under vegetable-fish culture integration. *Tanzania Journal of Science* 37: 37-48.
- 13.1.50 Hamerlynck, O., Duvail, S., Vandepitte, L., Kindinda, K., Nyingi, D.W., Paul, J.-L., Yanda, P.Z., Mwakalinga, A.B., Mgaya, Y.D. and Snoeks, J., 2011. To connect or not to connect – floods, fisheries and livelihoods in the Lower Rufiji floodplain lakes, Tanzania. *Hydrological Sciences Journal* 56 (8): 1436-1451.
- 13.1.51 Kayanda, R., Everson, I., Munyaho, T. and Mgaya, Y.D., 2012. Target strength measurements of Nile perch (*Lates niloticus*: Linnaeus, 1758) in Lake Victoria, East Africa. *Fisheries Research* 113: 76-83.
- 13.1.52 Slater, M.J., Mgaya, Y.D., Mill, A.C., Rushton, S.P. Stead, S.M., 2013. Effect of social and economic drivers on choosing aquaculture as a coastal livelihood. *Ocean and Coastal Management* 73: 22-30.
- 13.1.53 Kimirei, I.A., Nagelkerken, I., Mgaya, Y.D. and Huijbers, C.M., 2013. The mangrove nursery paradigm revisited: otolith stable isotopes support nursery-to-reef movements by Indo-Pacific fishes. *PLOS ONE* 8(6): 1-8.

- 13.1.54 Kimirei, I.A., Nagelkerken, I., Trommelen, M., Blankers, P., van Hoytema, N., Hoeijmakers, D., Rypel, A.L., Huijbers, C.M. and Mgaya, Y.D., 2013. What drives ontogenetic niche shifts in reef fishes? *Ecosystems* 16: 783-796.
- 13.1.55 Igulu, M.M., Nagelkerken, I., van der Velde, G. and Mgaya, Y.D., 2013. Mangrove fish production is largely fuelled by external food sources: a stable isotope analysis at the individual, species, and community levels from across the globe. *Ecosystems* 16: 1336-1352.
- 13.1.56 Igulu, M.M., Nagelkerken, I., van der Beek, M., Schippers, M., van Eck, R. and Mgaya, Y.D., 2013. Orientation from open water to settlement habitats by coral reef fish: behavioral flexibility in the use of multiple reliable cues. *Marine Ecology Progress Series* 494: 243-257.
- 13.1.57 Mgana, H.F., Herzig, A. and Mgaya, Y.D., 2014. Diel vertical distribution and life history characteristics of *Tropodiptomus simplex* and its importance in the diet of *Stolothrissa tanganicae*, Kigoma, Tanzania. *Aquatic Ecosystem Health & Management* 17(1): 14-24.
- 13.1.58 Slater, M.J., Mgaya, Y.D. and Stead, S.M., 2014. Perceptions of rule-breaking related to marine ecosystem health. *PLOS ONE* 9(2): 1-8.
- 13.1.59 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L. and Mgaya, Y.D., 2014. A comparison of diurnal dynamics of water quality parameters in Nile tilapia (*Oreochromis niloticus*, Linnaeus, 1758) monoculture and polyculture with African sharp tooth catfish (*Clarias gariepinus*, Burchell, 1822) in earthen ponds. *International Aquatic Research* 6(1): 1-13.
- 13.1.60 Elias, J., Ijumba, J.N., Mgaya, Y.D. and Mamboya, F.A., 2014. Study on freshwater macroinvertebrates of some Tanzanian rivers as a basis for developing biomonitoring index for assessing pollution in tropical African regions. *Journal of Ecosystems* <http://dx.doi.org/10.1155/2014/985389>.
- 13.1.61 Igulu, M.M., Nagelkerken, I., Dorenbosch, M., Grol, M.G.G., Harbone, A.R., Kimirei, I.A., Mumby, P.J., Olds, A.D. and Mgaya, Y.D., 2014. Mangrove habitat use by juvenile reef fish: meta-analysis reveals that tidal regime matters more than biogeographic region. *PLOS ONE* 9(12): e114715. <https://doi.org/10.1371/journal.pone.0114715>.
- 13.1.62 Waya, R.K., Limbu, S.M., Ngupula, G.W., Mwita, C.J. and Mgaya, Y.D., 2014. Spatial patterns of zooplankton distribution and abundance in relation to phytoplankton, fish catch and some water quality parameters at Shirati bay, Lake Victoria-Tanzania. *Tanzania Journal of Science* 40: 20-33.
- 13.1.63 Kimirei, I.A., Nagelkerken, I., Slooter, N., Gonzalez, E.T., Huijbers, C.M., Mgaya, Y.D. and Rypel, A.L., 2015. Demography of fish populations reveals new challenges in appraising juvenile habitat values. *Marine Ecology Progress Series* 518: 225-237.
- 13.1.64 Limbu, S.M., Shoko, A.P., Shirima, E.D., Lamtane, H.A., Kische-Machumu, M.A., Mgana, H.F. and Mgaya, Y.D., 2015. Effect of initial stocking size of the predatory African catfish (*Clarias gariepinus*) on recruits, growth performance, survival and yield of mixed-sex Nile tilapia (*Oreochromis niloticus*) in concrete tank culture system. *International Aquatic Research* 7: 63-73.
- 13.1.65 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L. and Mgaya, Y.D., 2015. Reproductive biology of female Nile tilapia, *Oreochromis niloticus* (Linnaeus) reared under monoculture and polyculture with sharptooth catfish (*Clarias gariepinus*, Burchell). *SpringerPlus* 4: 275-283.
- 13.1.66 Gaspere, L., Bryceson, I. and Mgaya, Y., 2015. Temporal and spatial trends in size, biomass and abundance of groupers (Epinephelinae) in Mafia Island Marine Park: Fishers' perceptions and underwater visual census surveys. *Fisheries Management and Ecology* 22: 337-348.
- 13.1.67 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L., Mkenda, A.F. and Mgaya, Y.D., 2016. Effect of stocking density on growth, production and economic benefits of mixed sex Nile tilapia (*Oreochromis niloticus*) and African sharptooth catfish (*Clarias gariepinus*) in polyculture and monoculture. *Aquaculture Research* 47: 36-50.
- 13.1.68 Shoko, A.P., Limbu, S.M., and Mgaya, Y.D., 2016. Effect of stocking density on growth performance, survival, production and economic benefits of African sharptooth catfish (*Clarias gariepinus*) monoculture in earthen ponds. *Journal of Applied Aquaculture*, <https://doi.org/10.1080/10454438.2016.1188338>.
- 13.1.69 Limbu, S.M., Shoko, A.P., Lamtane, H.A., Kische-Machumu, M.A., Joram, M.C., Mbonde, A.S., Mgana, H.F., Mgaya, Y.D., 2016. Supplemental effects of mixed ingredients and rice bran on the growth performance, survival and yield of Nile tilapia, *Oreochromis niloticus* reared in fertilized earthen ponds. *SpringerPlus* 5(1): 1-13.
- 13.1.70 Limbu, S.M., Shoko, A.P., Lamtane, H.A., Kische-Machumu, M.A., Jorum, M.C., Mbonde, A.S., Mgana, H.F. and Mgaya, Y.D., 2016. Fish pond aquaculture system integrated with vegetable farming improves yield and economic benefits of small-scale farmers. *Aquaculture Research*, <https://doi.org/10.1111/are.13188>.

- 13.1.71 Waya, R.K., Limbu, S.M., Ngupula, G.W., Mwitwa, C.J. and Mgaya, Y.D., 2017. Temporal patterns in phytoplankton, zooplankton and fish composition, abundance and biomass in Shirati Bay, Lake Victoria, Tanzania. *Lakes and Reservoirs: Research and Management* 22: 19-42.
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REFEREES

Prof. William Anangisye
Vice Chancellor
University of Dar es Salaam
Mob. +255 786 574 123
Email address: wanangisye@udsm.ac.tz

Dr. Blandina R. Lugendo
Dean
School of Aquatic Sciences and Fisheries Technology
University of Dar es Salaam
Mob. +255 713 437 789
Email address: blandina_lugendo@yahoo.co.uk

CERTIFICATION: I, the undersigned certify that, to the best of my knowledge and belief, this Curriculum Vitae correctly describes qualifications, my experience and myself.

Signature:



(Signed)

Date: 11th August 2026