

CARRICULUM VITAE: DR. BARAKA LAMECK KUGURU

PERSONAL DATA:

- Tanzania Fisheries Research Institute, P.O.BOX 9750 Dar es Salaam, Tanzania
- Mobile phones: +255 (0) 6 55 796992, +255 (0)685 310554
- Email: barakakughuru@gmail.com

ACADEMIC QUALIFICATIONS

- Ph.D. (Marine Eco-Physiology) at the University of Bar Ilan, Israel (2008).
- M.Sc. (Fisheries Ecology) at the University of Dar es Salaam, Tanzania (2002).
- B.Sc. (Marine Biology and Microbiology) at the University of Dar es Salaam, Tanzania (1995).
- Diploma (general Fisheries Science) at Kunduchi Fisheries Institute, Tanzania (1990).
- Advanced Secondary School Certificate (A-Level) at Pugu Secondary School (1987).
- Secondary School Certificate (O-Level) at Ikizu Secondary School (1984).

WORKING EXPERIENCE

- Principle Research Officer (2015 to date) at Tanzania Fisheries Research Institute
- Senior Research Officer (2013 to 2015) at Tanzania Fisheries Research Institute
- Research Officer (2009 to 2013) at Tanzania Fisheries Research Institute
- Principal Fisheries Officer (2006 to 2009) at the Ministry of Livestock and Fisheries Development
- Fisheries Officer (2003 to 2006) at Ministry of Natural Resources and Tourism
- Assistant Fisheries Officer (Tutor, 1990 to 2003) at Mbegani Fisheries Development Centre

PROFESSIONAL EXPERIENCE

- In depth professional experience in marine science, project management and fisheries research gained over 20 years. Impacts of fishing on populations and ecosystems, and capacity building through training of scientists, post-graduate students, and technical fisheries research staff.
- Significant exposure in National, regional as well as the international scientific community through collaborative projects (particularly in the Western Indian Ocean region), conferences contributions, and attending presenting at numerous workshops.
- Contribution for implementation of complex multi-national projects dealing with shared marine resources: - Coordinated development of Science plan for the South West Indian Ocean Fisheries Project (SWIOFP; 9 countries; 4-year regional project; World Bank funded). Regional Coordinator for Demersal fish Component of SWIOFP.

RESEARCH GRANTS

- Integrated Aquaculture System of Seaweeds and Marine Fish: A Hub for Food And Income Generation to Coastal Communities in Tanzania; 2015-2017, Project Number CST/NFAST-SIDA/CRG/2015/20 COSTECH (89,999.00 Tsh)
- A Deep-bottom fishing technique for commercial exploitation of demersal fish stocks along Mafia-Mtwara Sea Scape.: 2015-2017 Project Number CST/NFAST-SIDA/CRG/2015/15 (90,000.00)
- Application of remote sensing on the identification of preferred habitats for the pelagic fish species in the continental shelf of Tanzania DFSA; 2014 to June 2015 (28,810,000. Tsh /=)

- *Extension* Application of remote sensing on the identification of preferred habitats for the pelagic fish species in the continental shelf of Tanzania DFSA; March 2015 to June 2017 (103,000,000. Tsh /=)
- *Extension* Application of remote sensing on the identification of preferred habitats for the pelagic fish species in the continental shelf of Tanzania DFSA; March 2018 to June 2018(65,000. Tsh /=)
- Fish Aggregating Devices (FADs): A fishing technology for potential recovery of declining fish stocks in the near shore coastal waters. 2015 to June 2017 DFSA (80,005,000/= TShs)
- A socio-ecological assessment of fisheries in three estuarine systems of the SW Indian Ocean – identifying essential links for improved governance: 2016 to 2018 (135,390 USD)

CONSULTANCY SERVICES

- Environmental Impact Assessment of the Songo Songo Gas to Electricity Project: Impact on the Marine Environment. Consultancy work for NORPLAN A/S, Norway (1997).
- Baseline study on Socio-economic benefits of artisanal tuna and tuna-like fishery in Coastal East Africa region (CEA; Kenya, Tanzania, Mozambique): A case study of United Republic of Tanzania. A study sponsored by WWF (2012).
- Study of environmental factors influencing whale shark occurrence & movements in Mafia Island, Tanzania **WWF** (2013-2014)
- Whale shark interactions with fishers at Mafia Island, **WWF** (Tanzania 2015-2016)
- Towards the development of improved artisanal tuna fisheries statistical system in Coastal East Africa: Kenya, Tanzania and Mozambique **WWF** (2015)
- Mid-term Evaluation Fisheries Co-management Project building effective long term fisheries co-management in five coastal districts in Tanzania, and promoting Coast-wide learning on the same 2013-2017 **WWF** (2015)
- Research on Rationalizing Multiple Regulations in Tanzanian Agriculture: The Case of Fisheries sub-sector. **ACT** (2016)
- A repeat survey on knowledge, attitude perception (kap) on Collaborative Fisheries Management for Coastal Communities in Districts of Kigamboni, Mafia, Kibiti, Kilwa and Mtwara: FISHCOM Project No 40000029-400026, **WWF** (2017)
- Spatial and temporal distribution of whale sharks in Mafia. **WWF** (2017)

MEMBERSHIP

- Dive master (PADI)
- DAN EUROPE –No, 204623.2087.0031 – BM
- West Indian Ocean Scientist Association

SELECTED PUBLISHED PEER-REVIEWED ARTICLES

AJE Healey, G Gouws, ST Fennessy, B Kuguru, WHH Sauer, PW Shaw, 2018 Genetic analysis reveals harvested *Lethrinus nebulosus* in the Southwest Indian Ocean comprise two cryptic species. ICES Journal of Marine Science

Peter A Staehr, Mohammed Sheikh, Rashid Rashid, Ali Ussi, Mohammed Suleiman, Ulrike Kloiber, Karsten Dahl, Zhanna Tairova, Jakob Strand, **Baraka Kuguru**, Christopher

- Muhando 2018 Managing human pressures to restore ecosystem health of zanzibar coastal waters *Journal of Aquaculture & Marine Biology* 7 (2) 59-70
- Kaunda-Arara, B., Munga, C., Manyala, J., **Kuguru, B.**, Igulu, M., Chande, M., Kangwe, S., Mwakiti, S., Thoya, P., Mbaru, E., Ruwa, R. 2016 Spatial variation in demersal fish species composition, abundance and diversity along coastal East Africa from recent bottom trawl surveys. *Regional Studies in Marine Sciences*.
<http://dx.doi.org/10.106/j.rsma.2016.04.001>
- Everett B.I., Groeneveld, J.C., Fennessy S.T., Dias N, Filipe, O., Zacarias, L., Igulu, M., **Kuguru, B.**, Kimani, E., Munga, C.N., Rabarison, G.A, Razafindrakoto, H., Yemane D, (2015)
- BI Everett, JC Groeneveld, ST Fennessy, N Dias, O Filipe, L Zacarias, M Igulu, **B Kuguru**, E Kimani, CN Munga, GA Rabarison, H Razafindrakoto, D Yemane 2015 Demersal trawl surveys show ecological gradients in Southwest Indian Ocean slope fauna. *Western Indian Ocean Journal of Marine Science* 14 (1&2), 73-92.
- Composition and abundance of deep-water crustaceans in the Southwest Indian Ocean: Enough to support trawl fisheries? *Ocean & Coastal Management* 111: 50-61.
- Kuguru B.**, Fine M., Tchernov D. (2012) The physiological response of zooxanthellae to combined effect of temperature and pH in the corallimorpharian *Rhodactis rhodostoma*. *University of Mauritius Research journal* 18: 122-144
- Kuguru B.**, Achituv Y., Gruber D., Tchernov D. (2010) Photoacclimation mechanisms of corallimorpharians on coral reefs: the Photosynthetic parameters of zooxanthellae and host cellular responses to variation in irradiance . *J. Exp Mar Bios Ecol* 394: 53-62
- Kuguru B.**, Chadwick N.E., Achituv Y., Zandbank K., Tchernov D. (2008) Mechanisms of habitat segregation between corallimorpharians: photosynthetic parameters and *Symbiodinium* types. *Mar Ecol Prog Ser* 369: 115–129.
- Kuguru B.L.**, N. E. Chadwick, S. R. Santos, S. Beer, G. Winters 2007. The adaptation strategies of the corallimorpharian *Rhodactis rhodostoma* to irradiance and temperature. *Mar Biol* 151:1287–1298.
- Kuguru, B.L.**, Mgaya, Y.D., Öhman, M.C., Wagner, G.M., 2004. Reef environment and the competitive success of the Corallimorpharia. *Mar. Biol.*, 145: 875–884 Muhando, C. and
- Kuguru, B.L** (2002). The status of corallimorpharia on coral reefs of Tanzania. In: Linden, O., Souter, D., Wilhelmsson, D. and Obura, D. (Editors), *Coral Reef Degradation in the Indian Ocean Status Report 2002 CORDIO*, 31-39 pp www.cordio.org
- Muhando, C., **Kuguru, B.** Wagner, G., Mbije, N. and Ohman, M. (2002). Environmental effect on the distribution of the corallimorpharians in Tanzania. *Ambio*, 31: 558-561.
- Kuguru, B.L.** 2002. The distribution and abundance of *Rhodactis* spp. (Cnidaria: Corallimorpharia) and their competitive effects on stony corals (Cnidaria: Scleractinia) on selected reefs around Zanzibar. MSc. Thesis, University of Dar es salaam, Tanzania. 121 pp.

SELECTED TECHNICAL REPORTS

- Tumbo, M., Mangora, M.M., Pauline, N.M., **Kuguru, B.** 2015. Review of Literature for a Climate Vulnerability Assessment in the RUMAKI Seascape, Tanzania. WWF Tanzania Country Office, Dar es Salaam, Tanzania. 87pp

- Pauline, N.M., Tumbo, M., **Kuguru, B.L.**, Igulu, M.M. 2015. Mid Term Evaluation Report on the Building Effective Long Term Fisheries Co-Management in Five Coastal Districts in Tanzania, and Promoting Coast-Wide Learning on the same Project, 2013 – 2017. WWF Tanzania Country Office, Dar es Salaam, Tanzania. x+72pp.
- Christoph A.R., Simon J. P., Michael, B., Jesse, C., Fernando, C., Mathias, I., **Baraka, K.** 2015 Environmental factors influencing whale shark occurrence & movements at Mafia Island, Tanzania. 57PP
- Igulu M, Ngoile M, **Kuguru B**, Sailale I, Haule W. 2016. Towards the Development of Improved Artisanal Tuna Fisheries Statistical System in Coastal East Africa: Situational Analysis from Kenya, and Tanzania. WWF Coastal East Africa-Tanzania Country Office, Dar es Salaam, Tanzania, 30pp.
- Igulu M, Ngoile M, **Kuguru B**, Sailale I, Haule W. 2016. A mobile based Fisheries Data Collection System for artisanal Fishery in Tanzania. WWF Tanzania Country Office, Dar es Salaam, Tanzania, 30pp
- Paulsen J, Rohner CA, Reuter H, Levenson JJ, Pierce SJ, Diamant S, Prebble CEM, Igulu M, **Kuguru B**. Fine-scale behavior of whale sharks off Mafia Island, Tanzania. QScience Proceedings (The 4th International Whale Shark Conference) 2016:iwsc4.40
<http://dx.doi.org/10.5339/qproc.2016.iwsc4.40>

CERTIFICATION: I, the undersigned certify that, this Curriculum Vitae correctly describes qualifications and my experience.

SIGNATURE



Jan 2018