

Curriculum vitae

GLADYS NAMUSWE BWANIKA

DEPARTMENT OF BIOLOGICAL SCIENCES

COLLEGE OF NATURAL SCIENCES

MAKERERE UNIVERSITY

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PERSONAL DATA

DATE OF BIRTH:	1 st October 1971
PLACE OF BIRTH:	Mengo, Uganda
MARITAL STATUS:	Married
NO OF CHILDREN:	Four

EDUCATION

- Ph.D ZOOLOGY, Makerere University, Kampala, Uganda. January 2005
Thesis title: Feeding ecology and bioenergetics of Nile tilapia (*Oreochromis niloticus* Linnè)
Supervisors: Prof. Yusuf Kizito (RIP) and Prof. Lauren Chapman
 - M.Sc. FISHERIES AND AQUATIC SCIENCES, Makerere University, Kampala, Uganda. October 1998.
Dissertation title: A comparison of the fish fauna of two small crater lakes: Lakes Nyamusingiri and Kyasanduka, in Western Uganda
Supervisors: Dr. Yusuf Kizito (RIP) and Dr. Boniface Makanga
 - B.Sc. (Botany, Zoology and Physical Education- Second class upper Honours), Makerere University, Kampala, Uganda. January 1995
 - Uganda Advanced Certificate of Education, Trinity College Nabbingo, Uganda. 1990
 - Uganda Certificate of Education, Trinity College Nabbingo, Uganda. 1988
- Others
- Postgraduate Certificate in Aquaculture Production and Management, Hebrew University, Israel. 2008.
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TEACHING EXPERIENCE

- **2000-To date:** Assistant Lecturer, Lecturer to Senior Lecturer – Undertaking courses in the Bachelor of Science degree course, Bachelor of Science in Fisheries and Aquaculture degree course, Master of Science (Fisheries and Aquatic Sciences) degree course.
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PUBLICATIONS

Aruho C., R.K. Basiita, D. Kahwa, **G. Bwanika** and J. Rutaisire, 2013. Reproductive biology of *Bargrus docmak* in the Victoria Nile, Uganda. *African Journal of Aquatic Science* 38 (3): 263-271.

Chepkwemoi, P., **G.N. Bwanika**, J. Kwetegyeka, G. Mbahizireki, and A. A. Izaara, 2013. Fatty acid profiles and growth of African catfish larvae fed on freshwater cyclopoid copepods and *Artemia* as live starter feed. *International Journal of Aquaculture* Vol. 3, No. 22

Chamwali, A.A., I. A.M. Makombe, J. K.O. Akumu and **G.N. Bwanika**, 2010. Poverty in selected Tanzania and Ugandan Fish landing Sites in Lake Victoria Basin: A multidimensional Analysis Using the Fussy Sets Approach. *Tanzania Journal of Development Studies*. **10**: 68-77

Rutaisire, J., **G. Bwanika**, P. Walekhwa and D. Kahwa, 2009. Fish farming as a business. Fountain Publishers ISBN 978-9970-02-964-8

Bwanika G., D. Murie, L. Chapman, 2007. Comparative age and growth of *Oreochromis niloticus* LINNÉ (Nile tilapia) in lakes Nabugabo and Wamala, Uganda *Hydrobiologia* 589:287-301

Bwanika G. N., L. J. Chapman, Y. Kizito and J. Balirwa, 2006. Cascading effects of introduced Nile Perch (*Lates niloticus*) on the foraging ecology of Nile Tilapia (*Oreochromis niloticus*). *Ecology of Freshwater Fish* 15: 470-481

Bwanika G. N., B. Makanga, Y. Kizito, L.J. Chapman and J. Balirwa, 2004. Observations on the biology of Nile tilapia, *Oreochromis niloticus*, L., in two Uganda Crater lakes. *Afr. J. Ecol.* 41: 1-9

SUPERVISION AND MENTORSHIP

2014: Seven Masters students conducting research in fisheries and aquaculture fields, act as member on doctoral committee of two PhD students

2008 -2011: Mentor under the African Women in Agricultural Research and Development (AWARD) program

Accomplished degree awards under my supervision

- Aruho Cassius (M.Sc., Makerere University) - Aspects of reproductive biology of *Bargrus docmak* Forsskal 1775 (Pisces: Bagridae).
- Okello Thomas (MSc. Candidate, Makerere University) – Optimum *Rastrineobola argentea* harvest with minimal catch of n.on-target fish species in Lake Kyoga.
- Liverious Nyakuni (M.Sc., Makerere University) - Habitat utilization and reproductive biology of Nile tilapia (*Oreochromis niloticus*) in Albert Nile in Nebbi District, Uganda.
- Committee Affiliate to Jaclyn A. Paterson (M.Sc., McGill University) – Ecological and morphological change in a top aquatic predator to a novel environment.
- Tom Mukasa (M.Sc., Makerere University) - Age and growth responses of *Oreochromis niloticus* to changing food base in Lake Nabugabo.
- Andrew Izaara (M.Sc., Makerere University) -“Performance of rotifer (*Branchionus calyciflorus* Pallas) fed on *Chlorella* species cultured on locally available nutrient

- materials”
- Prisca Chepkwemai (M.Sc., Makerere University) - Suitability of Cyclopoids as starter live feed for the African Catfish (*Clarias gariepinus*, Burchell 1822) larvae culture in Uganda”
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COMMUNITY SERVICE

Chairperson: Virtuous Women’s Ministry, Christ Witness Church, Ntinda, Uganda

Chairperson: National Board, Promise International, Uganda LTD – An orphanage

Patron: Fisheries Students’ Association Makerere University

Founding and Board Member - ANSWERID WORLDWIDE

RESEARCH EXPERIENCE

- Biology, ecology, food and feeding of fishes (Nile tilapia: in crater lakes Nyamusingiri and Kyasanduka, lakes Nabugabo, Wamala, Victoria and Mburo; Nile perch: lakes Nabugabo and Victoria) – Institute of Ecology research grant and Lake Victoria Environment Management project, capacity building project (MSc, PhD and Postdoctoral research fellow)
 - Fish bioenergetics (Nile tilapia: in Lakes Nabugabo, Wamala and Mburo) – PhD Research
 - Fish ageing (otoliths) and growth modeling (Nile tilapia in lakes Nabugabo and Wamala; Nile perch in Lake Nabugabo) – PhD and Postdoctoral Research
 - Water quality and eutrophication of lake systems – Research associate Lake Victoria Environment Management project, Eutrophication component
 - Culture of Rotifer, *Branchionus calyciflorus* as potential starter feed for *Clarias gariepinus* – NORAD project (Principal Researcher)
 - Improving livelihoods of fisher communities in the Lake Victoria basin: lake Victoria Research project (Co-researcher)
 - Culture of the freshwater zooplanktons as live food for freshwater fish species – National Agricultural Research Organization, Competitive research projects (Principal Researcher)
 - Integrated and commercial fish farming in Uganda: Rockefeller funded project, Makerere University (Co-researcher)
 - Culture technologies for increased and sustainable production of the Nile perch (*Lates niloticus* Linnaeus, 1758); Millennium Science Initiative project, Makerere University (Senior Researcher)
 - Screening and identification of potential probiotic bacteria for use as biological control agents in aquaculture: NORAD project (Co-researcher)
 - Modeling of exploitable fish populations: A case study of Nile Perch in Lake Nabugabo, Uganda: Swedish International Development Agency (Post-doc fellow)
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AWARDS AND SCHOLARSHIPS

- i) 2014: Principal Investigator on a \$89,200 grant from National Agriculture Research Organisation, Competitive grants - "Advancing aquaculture hatchery productivity through mass production and packaging of locally grown larval fish foods: Rotifers, Copepods and *Artemia*".
 - ii) 2011: Principal Investigator on a \$30000 grant from Swedish International Development Agency SIDA) as a postdoctoral research - "Modeling of exploitable fish populations: A case study of Nile Perch in Lake Nabugabo, Uganda".
 - iii) 2011: Consultant on a \$125000 grant from Government of Uganda and Belgium Development Agency – Feasibility study on Artemia production in Saline lakes in Western Uganda as a means of enhancing Aquaculture Development
 - iv) 2010: Principal Investigator on a \$90000 grant from National Agriculture Research Organisation, Competitive grants - "Enhancement of hatchery-based African Catfish (*Clarias gariepinus*) seed production using selected zooplanktons as live food"
 - v) 2009: Co-researcher on a \$150000 grant from the Lake Victoria Research Project (VicRes) - "Improving livelihoods of fisher communities in the Lake Victoria basin: A case study of selected landing sites in Tanzania and Uganda"
 - vi) 2008: Senior Researcher on a \$800000 grant from Millenium Science Initiative grant - "Development of culture technologies for increased and sustainable production of the Nile perch (*Lates niloticus*) (linnaeus, 1758)"
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OTHER UNIVERSITY SERVICE

Todate:

- i) Coordinator - Research and Postgraduate training, Department of Biological Sciences
 - ii) Committee member - School of Biosciences Research Board;
 - iii) In-charge: Fish ageing Laboratory
 - iv) Coordinator – Field based practicals for Bachelor of Fisheries and Aquaculture course
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PROFESSIONAL AFFILIATIONS

Member – Uganda Wild Life Society, Uganda

Member - Network of Ugandan Researchers and Research Users (NURRU)

Consultant and Secretary – Aquafarm Consults LTD

REFEREES

1. **Fred Bugenyi**
Professor, Department of Biological Sciences, Makerere University
P.O. Box 7062, Kampala, Uganda; email: fbugenyi@cns.mak.ac.ug
 2. **Lauren Chapman**
Professor, Department of Biology, McGill University
1205 Avenue Docteur Penfield, Montreal, PQ, Canada H3A 1B1
email: lauren.chapman@mcgill.ca
 3. **Betty Mulidwa**
Pastor, Christ Witness Ministries
P.O. Box 25765 Kampala, Uganda; email: faithliz88@yahoo.co.uk
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