



Robert Egessa

Date of birth: 12/07/1983 | **Nationality:** Ugandan | **Gender:** Male |

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Address: Nile Crescent Road, Plot 15B, Jinja, Jinja, Uganda (Home)

● ABOUT ME

You can provide a description of yourself here...

● EDUCATION AND TRAINING

2021 – CURRENT Gödöllő, Hungary

PHD ANIMAL SCIENCE Hungarian University of Agriculture and Life Sciences

Address Páter Karoly u 1, 2100, Gödöllő, Hungary | **Website** <https://en.uni-mate.hu/>

2011 – 2014 Kampala, Uganda

MSC MOLECULAR BIOLOGY AND BIOTECHNOLOGY Makerere University

Website <https://www.mak.ac.ug>

2003 – 2006 Kampala, Uganda

BSC WITH EDUCATION (BIOLOGY AND CHEMISTRY) Makerere University

Website <https://www.mak.ac.ug>

● WORK EXPERIENCE

2015 – CURRENT Jinja, Uganda

RESEARCH OFFICER/SCIENTIST NATIONAL AGRICULTURAL RESEARCH ORGANISATION (NARO)

- designing experiments for studies on fish and aquatic invertebrates
- writing and presenting research proposals and results
- interacting with colleagues to improve knowledge in designing and conducting experiments and interpreting experimental results
- participating in survey studies, extension workshops, joint on-farm trials and field visits
- and performing other research assignments as required and carrying out functional duties as necessary

2012 – 2015 Kampala, Uganda

ASSISTANT LECTURER (BIOLOGY) BUGEMA UNIVERSITY

Specialized in teaching biology specifically:

- Ecology
- introduction to cell and molecular biology
- Genetics and Evolution
- animal/plant physiology
- animal/plant morphology, anatomy and development
- History and philosophy of biology

2007 – 2011 Kampala, Uganda

SECONDARY SCHOOL TEACHER FOR BIOLOGY AND CHEMISTRY BAPTIST HIGH SCHOOL

- Taught Biology and chemistry
- Served as Head of chemistry department

● LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

PROJECTS

2022 – CURRENT

Microbe and heavy metal pollutants on plastisphere in northern Lake Victoria: Potential ecological risks Funded by the international Foundation for Science as a renewal grant

2019 – 2021

Understanding microplastics in water and sediment of northern Lake Victoria National Geographic Society grant

2018 – 2020

Use of remote sensing products to predict aquatic habitat conditions and biotic communities for Lake Victoria SERVIR grants for Eastern and Southern Africa, No. ESA 007

2018 – 2020

Microplastics in water, sediment and fish in Lake Victoria (Uganda section) International Foundation for Science- Individual grants

2015 – 2018

Sustainable utilization and management of natural fish foods (algae, invertebrates and macrophytes) in lakes Kyoga and Albert, Uganda

PUBLICATIONS

[Gebremichael, A., Kucska, B., Ardó, L., Biró, J., Berki, M., Lengyel-Kónya, É., Tömösközi-Farkas, R., Egessa, R., Müller, T., Gyalog, G., & Sándor, Z. J. \(2023\). Physiological Response of Grower African Catfish to Dietary Black Soldier Fly and Mealworm Meal. *Animals*, 13\(6\), 968.](#)

[Musinguzi, L., Olokotum, M., Nakiyende, H., Egessa, R., Kiggundu, V., Pabire, W.G., Bassa, S., Nsega, M., Kanya, A., Rwezawula, P., Lugya, J., Magezi, G., Naluwayiro, J., Natugonza, V. \(2023\). "Primary Biodiversity Data on Zooplankton, Macroinvertebrates, and Fish from Freshwater Ecosystems of Uganda". *Journal of Limnology* 82 \(s1\).](#)

[Nankabirwa, A., Egessa, R., Naluwayiro, J., Magezi, G., Kiggundu, V., Pabire, G. W., Ocaya, H., & Okello, W. \(2023\). Horizontal differentiation in water chemistry, phytoplankton, zooplankton and macrozoobenthic communities in Lake Kwana. *African Journal of Ecology*, 00, 1–11. <https://doi.org/10.1111/aje.13120>](#)

[Egessa, R. \(2022\). Antimicrobial peptides from freshwater invertebrate species: potential for future applications. *Molecular Biology Reports*, 49: 9797–9811. <https://doi.org/10.1007/s11033-022-07483-1>](#)

[Sándor, Z. J., Banjac, V., Vidosavljević, S., Káldy, J., Egessa, R., Lengyel-Kónya, É., Tömösközi-Farkas, R., Zalán, Z., Adányi, N., Libisch, B., & Biró, J. \(2022\). Apparent Digestibility Coefficients of Black Soldier Fly \(*Hermetia illucens*\), Yellow Mealworm \(*Tenebrio molitor*\), and Blue Bottle Fly \(*Calliphora vicina*\) Insects for Juvenile African Catfish Hybrids \(*Clarias gariepinus* × *Heterobranchus longifilis*\). *Aquaculture Nutrition*, 2022. <https://doi.org/10.1155/2022/4717014>](#)

– 2022

[Egessa, R., Nankabirwa, A., Ocaya, H., and Pabire, W.G. \(2020\). Microplastics in surface waters of Lake Victoria. *Science of the Total Environment*. 140201: <https://doi.org/10.1016/j.scitotenv.2020.140201>](#)

[Egessa, R., Nankabirwa, A., Basooma, R., and Nabwire, R. \(2020\). Occurrence, distribution and size relationships of plastic debris along shores and sediment of northern Lake Victoria. Environmental Pollution, 257, 113442. <http://doi.org/10.1016/j.envpol.2019.113442>](https://doi.org/10.1016/j.envpol.2019.113442)

[Egessa, R., Pabire, G.W., and Ocaya, H. \(2018\). Benthic macroinvertebrate community structure in Napoleon Gulf, Lake Victoria: effects of cage aquaculture in eutrophic lake. Environmental Monitoring and Assessment, 190\(3\): 112. <https://doi.org/10.1007/s10661-018-6498-5>.](https://doi.org/10.1007/s10661-018-6498-5)

CONFERENCES AND SEMINARS

07/06/2023 – 08/06/2023

Insights on the administration of Black Soldier Fly (*Hermetia illucens*) Larvae oil in the diets of catfish. Halászatfejlesztés 47, Fisheries & Aquaculture conference proceedings, 8 June 2023, Szarvas, Hungary.

17/10/2022 – 20/10/2022 – Wageningen, The Netherlands.

Diet induced effects on growth, antioxidation, gene expression, and microbiome structure in European catfish (*Silurus glanis*) fed an insect-derived oil-based diet. Fish nutrition and health workshop

25/05/2022 – 26/05/2022 – Szarvas, Hungary

Fish farming in Uganda: production, challenges and reflections. Proceedings of the 46th Scientific Conference on Fisheries and Aquaculture.

12/10/2018 – 15/10/2018 – Entebbe, Uganda

Structure of benthic macroinvertebrates along a gradient of land degradation in Lake Wamala (Uganda). NARO-MAK Joint Scientific Conference.