

	Chloe Kemigabo (PhD) National Agricultural Research Organisation (NARO) Senior Research Scientist, Animal Resources Program, Mbarara ZARDI P.O. Box 389, Mbarara, Uganda.
	+256 702553341
	c.kemigabo@gmail.com, profile: https://scholar.google.com/citations?user=&user=clksWXT0AAAAJ https://www.researchgate.net/profile/Chloe-Kemigabo
	Sex: Female Date of birth: 25/8/1977 Nationality: Ugandan
	Biodata: Chloe Kemigabo is a results-driven research scientist, trainer, and extension specialist in animal production with multidisciplinary expertise in aquaculture, livestock systems, water resources management, and climate change adaptation and mitigation. She integrates climate-smart agriculture and sustainable water management approaches to enhance feed efficiency, restore ecosystems, and reduce environmental impacts, including greenhouse gas emissions. She has developed and promoted innovative technologies such as dairy and aquaculture feeds, feed detoxifiers, and climate-responsive feeding strategies, while supporting range land restoration and watershed sustainability. Chloe has conducted feasibility studies, environmental and social assessments, and project evaluations, with outputs disseminated through technical reports and academic publications to inform policy and practice. Her core competencies include feed formulation, aquaculture management, IWRM, ESIA, project development and M&E, research and data analysis, curriculum development, agribusiness, and community engagement for resilient agricultural systems.

A. Formal Education

- June 2024-March 2025 **Post graduate Diploma ; Monitoring and Evaluation** at Uganda Management Institute (UMI)
- September 2019-2022 **Post-doctoral fellowship** , Integrated Management of Mycotoxin Biosafety risks in Animal feed Resources amidst Challenges of Climate change and COVID 19 pandemic at Makerere University, Kampala, Uganda
- January 2013-December 2018, **PhD in Aquaculture and Fisheries Science**, Effect of dietary enzymes (phytase, protease and sprouted sorghum) on nutrient digestibility, growth and cost effectiveness of producing African catfish *Clarias gariepinus* (Burchell, 1822).
- 2008-2010 **Masters Of Science (MSc) Environmental Science, Specialization; Limnology (Fresh water) and Wetland Ecosystems Science**. UNESCO-IHE, Institute of Water Education, Delft –the Netherlands) Limnology of Valley dams in Mbarara District, Uganda and its implications for commercial fish production.
- 2003-2006 **Bachelor of Science (Bsc) Fisheries and Aquaculture**. Makerere University, Kampala, Uganda. Economic analysis of Fish farming in Bwanswa Sub County, Kibaale District Local Government, Uganda
- 1999-2002. **National diploma in Fisheries Management and Technologies**. Fisheries Training Institute (FTI) Entebbe, Uganda. Effect of trainings by NARO Kajjansi ARDC on management of nursery ponds among tilapia fry producers in the districts of Arua, Nebbi and Lira (Uganda).
- 1994-1996. **Uganda Advanced Certificate of Education**. Kampala Secondary School, Uganda. Biology, Chemistry and Physics (PCB) were the major subjects studied.
- Uganda Certificate of Education (UCE)

Short Courses

- 5th to 6th Dec 2024. Certificate of participation. University of New South Wales. Curriculum Development
- 4-27th April 2023 Biogas Institute of Ministry of Agriculture and Rural Affairs (BIOMA), Chengdu, China. Biogas technology, Rural Energy and Environmental Protection for Developing Countries
- October 4-30th 2022. Statistics Norway , Oil and gas statistics
- May 2022. FAO and IGAD. National Feed Inventory and Feed Balance; Towards Sustainable livestock Production
- 1 No – 17 Dec 2021, Wageningen University (Centre for Development Innovation (WCID), the Netherlands, Facilitating Multi-Stakeholder Partnerships to foster inclusive and sustainable food systems,
- July 2021. Makerere University and ESIPPS International limited. Wetland Vulnerability assessment Using GIS and Earth observation data
- 1st-29th June 2021. Cornell University, US Speaking Science
- Sept 2021. Regional Universities Forum for Agriculture in Africa. Project Management and development of interdisciplinary skills

- September – October 2019. Michigan State University, United States Department of Agriculture, USA. Animal Feed ingredients (Pre-treatments, formulation, bio-safety and bio security)
- June- August 2019. Inter - American Development Bank (IDB). Project Management for Development
- June 2018. EMPOWER CONSULT. Kampala, Uganda. Leadership and management of public resources
- April 2018. Atacama Consulting in Association with EOH Coastal and Environmental Services, Environmental and Social Safe guards
- July 2015. Global Challenges University Alliance (Swedish University of Agricultural Sciences). Uppsala, Sweden., Developing local solutions to global problems in Aquaculture
- October 2012. UNESCO-IHE, Institute of Water Education, Delft -the Netherlands). Flood based livelihoods in water scarce and semi-arid environments
- 2010-2011. Association for Enhancement of Agricultural Research in Eastern and Central Africa . ASARECA/Entebbe/Uganda., Mainstreaming Gender in Agricultural Research.

B. Work Experience**C.**

- March 2026 to date: **Full time Lecturer** , Faculty of Natural Resources and Environment (FRNES) Busitema University- Namasagali and Jinja Campus
- June 2023-March 2026 **Visiting Lecturer** (Weekend graduate programs). Busitema University- Namasagali Campus
- **October 2022 -June 2023. Anti -Tick Project Field- trials Coordinator.** National Agricultural Research organization (NARO),
- **August -Sept 2022** Consultant. Directorate of Industrial Training (DIT), Ministry of Education and Sports. Development of Profiles and Curriculum for Animal Feed specialists (Animal Nutritionists)
- **May 2023. Senior Research Coordinator** , National Environment Management Authority (NEMA)
- September 2023. **Acting Manager aquatics** National Environment Management Authority (NEMA)
- September 2020 –Jan 2023. **Post-doctoral Fellow** (Mycotoxin management in Animal feed resources), College of Veterinary and Animal Bio-security (CoVAB), Makerere University,
- August 2019 to date. **Part time Lecturer.** Busitema University (Faculty of Environment and Natural Resources, Namasagali Campus)
- July 2019. **Part time Lecturer** Limnology and Aquatic Sciences (Weekend Program). Nkumba University
- June 2018 -Feb 2026 **Senior Research Scientist** Fisheries and Aquaculture. National Agricultural Research organization (NARO), Mbarara ZARDI.
- June 2018 -January 2024. **Program Leader**, Animal Resources Research (Livestock and Fisheries) program. NARO-Mbarara ZARDI
- June 2017-Dec 2018. **Acting Program Leader**, Animal Resources Research (Livestock & Fisheries) program. NARO-Mbarara ZARDI
- June 2010-May 2018 : **Research Scientist** Fisheries and Aquaculture NARO-Mbarara ZARDI
- June 2007-June 2010. **Sub county Coordinator** National Agricultural Advisory Services (NAADS) Programme. Kasambya sub county, Kibaale District Local Government
- December-2002-2007. **Assistant Fisheries** Development Officer, Bwanswa Sub county ,Kibaale District Local Government

D. Professional responsibilities

- i. Chairperson, Non-Tax Revenue (NTR) Committee, NARO Mbarara ZARDI **(2022 to date)**
- ii. A member of the Eastern Africa technical committee on Feed standards and Codex procedures **(2023-todate)**
- iii. Team Leader of the Zonal Team on Early Warning Tools for Predictive Systems under the FAO-MAAIF Early Warning tools for Resilient Food Systems **(2022-2023)**
- iv. Head of section, Fisheries and Aquaculture Research and Development NARO-Mbarara ZARDI **(2007 to date)**
- v. Chairperson, NARO - Mbarara Zonal Agricultural and Development Institute (NARO-Mbarara ZARDI) Farm Management committee (2021-2024)
- vi. Member of the NARO -Mbarara ZARDI, Contract's Committee **(2021-2022)**
- vii. Member of the NARO -Mbarara ZARDI Management Committee.
- viii. Coordinator and Lead Scientist for public Fisheries and Aquaculture Research in the South Western Agro Ecological Zone (16 districts and 1 City).
- ix. Focal Person for Gender mainstreaming and Environmental Social Safeguards in Agricultural Research, NARO-

Mbarara ZARDI.

- x. Focal person for Intellectual Property Management, Mbarara ZARDI.

E. selected publications

- 1) C., Kasigwa, H., Ndugwa, M., Iwe, G., et al. Implementing Zonal Aquaculture Innovation Platforms in Uganda: Key Lessons Learned. *Platforms* **2024**, 2, 101-117. <https://doi.org/10.3390/platforms2030007>
- 2) Gimbo R, Mukundi J, Mburu, D. M, Balirwa, J. S, Nakiyemba, A. N. & **Kemigabo, C. (2026)**. Effects of Anthropogenic Disturbance on the Biophysical Features of a Tropical Inland Valley Wetland. *East African Journal of Environment and Natural Resources*, 9(1), 330-347. <https://doi.org/10.37284/eajenr.9.1.4619>.
- 3) Wafula, M., Nakiyemba, A. and **Kemigabo, C. (2023)**. Fisheries and SDGs at Namasagali Fishing Village, Kamuli District, Uganda. *European Journal of Theoretical and Applied Sciences*, 1(4), 630-642. DOI: [10.59324/ejtas.2023.1\(4\).58](https://doi.org/10.59324/ejtas.2023.1(4).58)
- 4) Tumwesigye Z, Tumwesigye W, Opio F, **Kemigabo C**, Mujuni B. (2022). The Effect of Water Quality on Aquaculture Productivity in Ibanda District, Uganda. *Aquaculture Journal*, 2(1), 23-36. <https://doi.org/10.3390/aquacj2010003>.
- 5) Kakuru, JB., Semwanga, N., Kasigwa, H., Kirunda, H., **Kemigabo, C.** (2022). Effect of Substrate and Rearing Period on the Yield and Quality of Housefly Larvae ((*Musca Domestica*) as Protein Ingredient in Fish Diets. *International Journal of Innovative Science and Research Technology (IJISRT)*, 7 (5), 826-829. <https://doi.org/10.5281/zenodo.6629902>
- 6) **Kemigabo, Chloe** ., Kang'ombe, Jeremiah and Masembe, Charles., (2022). Growth performance of *Clarias gariepinus* hatchlings fed on enzyme pre-digested dry diets from first feeding. *African Journal for Rural Development* **14**. 885 - 892.
- 7) **Kemigabo, Chloe**., Kang'ombe, Jeremiah., Jere, Wilson., Sikawa, D., Moses, Dhikusooka., and Masembe, Charles. (2021). Effect of toasting on phytic acid, protein and pH in a plant-based diet and its ingesta in fed catfish. *African Journal of Rural Development*. 277-286.
- 8) **Kemigabo, C.**, Nakkazi, C., Nuwampaire, J., Kibirango, O., Tugume, G., Mbalire, F., Natuhwera, J., Wange-Bugenyi, A and Kirunda, H. (2021) Local solutions for global challenges: A case of clays and aflatoxin in Uganda. RUFORUM Working Document Series (ISSN 1607-9345), No. 19 (1):903-911. Available from <http://repository.ruforum.org>
- 9) **Kemigabo, C.**, Jere, L. W., Sikawa, D., Masembe, C., Kang'ombe, J., & Abdel-Tawwab, M. (2020). Growth response of African catfish, *Clarias gariepinus* (B.), larvae and fingerlings fed protease-incorporated diets. *Journal of Applied Ichthyology*, 35(2), 480-487. <https://onlinelibrary.wiley.com/doi/abs/10.1111/jai.13877>.
- 10) **Kemigabo, C.**, Abdel-Tawwab, M., Lazaro J.W., Sikawa, D., Masembe, C., Kang'ombe, J. (2018). Combined effect of dietary protein and phytase levels on growth performance, feed utilization, and nutrients digestibility of African catfish, *Clarias gariepinus* (B.), reared in earthen ponds. *Journal of Applied Aquaculture*: 1-16. DOI: [10.1080/10454438.2018.1439425](https://doi.org/10.1080/10454438.2018.1439425)
- 11) **Kemigabo, C.**, Jere, L.W, Sikawa D., Kang'ombe, J., Masembe, C. (2017). Apparent Digestibility and Utilization of Protein and Phosphorus in diets of incorporated with Sprouted Sorghum, Phytase and Protease Enzymes for African Catfish (*Clarias gariepinus*). *International Journal of Aquaculture and Fisheries Science* 3:077-087. DOI: [10.17352/2455-8400.000033](https://doi.org/10.17352/2455-8400.000033).
- 12) **Kemigabo, C.**, Kang'ombe J., Jere W.L., Sikawa, D., Dhikusooka, T.M., Masembe, C. (2017). Effect of toasting on phytic acid, protein and pH in a plant-based diet and its ingesta in fed catfish. *African Journal of Rural Development* 2:77-28. <http://repository.ruforum.org/sites/default/files/RUFORUMWeeklyVol.4No.7.pdf>.
- 13) **Kemigabo, C.**, Kang'ombe, J., Masembe, C., Jere L.W., Sikawa, D. (2017). Effects of protease enzyme supplementation on protein digestibility of legume and/or fish meal-based fish feeds. *International Journal of Fisheries and Aquaculture* 9:73-80. DOI: [10.5897/IJFA2017.0620](https://doi.org/10.5897/IJFA2017.0620).
- 14) **Kemigabo, C.**, **Kang'ombe J.**, **Masembe, C.**, **Sikawa, D.**, **Jere, W** and **Kasigwa, H.** (2014) .Identifying conditions for phytase enzyme adaption in African catfish feeds. *Fourth RUFORUM Biennial Regional Conference 21 - 25 July, Maputo, Mozambique Research Application Summary*; 403 - 406 .

- 15) **Kemigabo,Chloe** and Zenek, Adámek (2010) Comparative study of physico-chemical conditions and natural food resources for commercial fish production in the valley dams of Mbarara district, Uganda.*Agricultura Tropica et Subtropica* 43 (4), 248-260.
- 16) Kemigabo,C., Tugume ,G, Nakkazi, C., Sekabunga, Nichorus., Wentaro, A., and Kirunda ,H (2023). Livestock Research for Rural Development

F. Recent Projects

- 1) **Optimizing Edible insect Protein Concentrates for sustainable and Productive Aquaculture Systems Using the Farmer Field Business School (FFBS) Approach.** Funded by Busitema University -Directorate of Graduate Studies ,Research and Innovation, (BURIF) **(50,000,000Shillings : 2026 as a PI)**
- 2) **Use of NARO Developed Probiotic Additives for Enhancing Climate Resilient and Low carbon Dairy Nutrition among Smallholder Farming Systems in South Western Uganda funded by World Bank (250,000USD; 2025-2028 as PI)**
- 3) **AIRTEA Project: Harnessing multi-stakeholder innovation platforms for knowledge transfer and aquaculture value chain development in Uganda (EUR 250,000 ; 2022-2025) as a team member**
- 4) **Modulation of the Host Mucosal Immune Response to Porcine Respiratory Disease Complex using in-feed Probiotics (80,105 USD; 2022-todate as a Co PI)**
- 5) **CCGS/6/FH02/21: Bulking quality-declared Nile tilapia seed for the aquaculture industry in Uganda (512,198 USD; 2021-2025 as a member of the team).**
- 6) **RU/2020/Post Doc /08: Integrated Management of Mycotoxin bio safety risks in animal feed resources amidst challenges of climate change and COVID 19 pandemic' (USD 60,000; 2020-2022 as a P1)**
- 7) **A series of research projects financially supported and supervised by the Management of SNV/TIDE 1 and TIDE 2 Projects in South Western Uganda worth (USD 145,594; 2020 to 2023).**

Other awards

- 1) **TWAS Post-Doctoral Award 2021 (No10/2021; Vendor no 507167)**
- 2) **RUFORUM Postdoctoral Fellowship, (RU/2020/Post Doc/08) , Makerere University August, 2020.**
- 3) **Cochran Fellowship by Michigan State University and the United States Department of Agriculture, USA, 2019.**
- 4) **Best performing Scientists at Mbarara ZARDI during the financial year 2018/2019**
- 5) **DAAD in-Country PhD Scholarship (December 2012)**
- 6) **Austrian Development Agency – Masters Scholarship (October 2009)**
- 7) **Government of Uganda Diploma and Bachelors Degree Scholarship (September 1999 and September 2003)**

F. Referees

1. Dr. Halid Kirunda (Core workplace Supervisor)

Director of Research, NARO - Mbarara ZARDI:

Email: halidkirunda@gmail.com/halid.kirunda@naro.go.ug

Mobile phone: +256 772 927430.

2. Professor John David Kabasa (Main Post Doctoral University Research Mentor),

Principal College of Veterinary and Animal Biosecurity (CoVAB),

Makerere University, Kampala, Uganda.

Email.kabasajd@yahoo.com , Mobile phone: +265 772 499027

3. Sr. Jane Yatuha (PhD) Senior Lecturer Department of Biology

Mbarara University of Science and Technology (MUST)

Curriculum Vitae

Chloe Kemigabo

Email: jyatuha@must.ac.ug website: <http://www.must.ac.ug> Mobile phone: 0772 575952
Website; <http://www.must.ac.ug>

Signed : 