

Names: Charles Masembe

Gender: Male

Nationality: Ugandan

Current work address:

Makerere University

College of Natural Sciences

Department of Zoology, Entomology and Fisheries Sciences

P. O. Box 7062, KAMPALA, Uganda;

E-mail: cmasembe@gmail.com (Alt email: Charles.masembe@mak.ac.ug)

ORCID: <https://orcid.org/0000-0002-9581-0414>

Twitter: [@cmasembe10](https://twitter.com/cmasembe10)

ResearchGate: https://www.researchgate.net/profile/Charles_Masembe

Current Title: Professor

Personal Statement

An accomplished researcher in the fields of Molecular Genetics and Evolution, with a proven track record of internationally recognized scientific contributions. I have extensive experience in leading multidisciplinary molecular genetics research projects, fostering collaborations, and providing academic leadership at both national and international levels. My research interests focus on population genetics, conservation genetics, molecular epidemiology, evolutionary processes, viral evolution, and pathogen transmission dynamics, and the intersection of functional evolutionary genomics and viral pathogenesis. I am committed to advancing the understanding of molecular evolution in animals and viruses, host-pathogen interactions, conservation, capacity building, mentorship, and training the next generation of scientists.

Education

2006 **PhD** (Molecular Population Genetics) Makerere University/Copenhagen

2002 **MSc.** (ENR – Environment and Natural Resources) Makerere University

1999 **Bachelor of Veterinary Medicine** – Makerere University

Academic Appointments

2025 - present: Professor – Department of Zoology, Entomology and Fisheries Sciences, Makerere University

- a) Lead and manage a team of teachers and researchers focused on the broad areas of Zoology. More specifically in the areas of population genetics, evolutionary biology, molecular biology and bioinformatics.
- b) I oversee MSc students, PhD students and postdoctoral researchers, providing mentorship in both research and professional development.
- c) I participate in providing strategic directions, Chairing seminars, workshops, and international conferences on relevant topics in molecular genetics, evolution and epidemiology
- d) I establish and coordinate and maintain Key Collaborations with National and international institutions.

2015 - 2025: Associate Professor – Department of Zoology, Entomology and Fisheries Sciences, Makerere University

- e) I Lead, manage and mentor a team of teachers and researchers focused on the broad areas of Zoology. More specifically in the areas of population genetics, evolutionary biology, molecular biology and bioinformatics.
- f) I oversee MSc students, PhD students and postdoctoral researchers, providing mentorship in both research and professional development.
- g) I participate in providing strategic directions, Chairing seminars, workshops, and international conferences on relevant topics in molecular genetics, evolution and epidemiology
- h) I establish, coordinate and maintain Key Collaborations with National and international institutions.

2010 - 2015: Senior Lecturer – Makerere University

2008 - 2015: Manager – Molecular Genetics Laboratory

2008 - 2010: Lecturer – Makerere University

2006 - 2008: Post Doc (Immunology, Molecular Genetics and Epidemiology of Animal diseases – Makerere University, University of Copenhagen and Danish Technical University

Research Interests

- a) Evolutionary Biology
- b) Ecology
- c) Evolution
- d) Population Genetics
- e) Molecular Epidemiology
- f) Collaborative Research
- g) Capacity Building

1) ACADEMIC LEADERSHIP AND SERVICE

- i. Project Planning and Management tools: Regional Universities Forum for capacity Building in Agriculture.
- ii. Adjunct Associate Professor - University of Tennessee, College of Veterinary Medicine (2021-2022).
- iii. Guest Professor – BOKU University, Vienna Austria – Jan 11- Jan 24, 2020
- iv. External Examiner: Rhodes University, 2018, 2019, 2020
- v. External Thesis Examiner: University of Nairobi, 2011
- vi. External Thesis Examiner: University of Pretoria, 2020
- vii. Post Doc. Molecular Epidemiology of Foot-and-Mouth Disease
- viii. Visiting Scientist International Livestock Research Institute
- ix. Outstanding Africa Biosciences Challenge Fund (ABCF) Fellow 2011: For innovative and productive research on ASFV molecular epidemiology and pathogen discovery, BecA-ILRI (Kenya).
- x. Visiting lecturer (Conservation Genetics), National University of Rwanda
- xi. Africa Biosciences Challenge Fund Fellow: Nov – Dec 2011
- xii. Africa Biosciences Challenge Fund Fellow: Jun – Jul 2011

xiii. Visiting Lecturer, Swedish Agricultural University (Linnaeus Palme): Jul
2011