

Curriculum Vitae

Personal Details

Nathan Muyinda
Assistant Lecturer
Department of Mathematics
Makerere University
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EDUCATION

PhD in Bioscience Engineering: Mathematical Modelling, Ghent University, Belgium (2022). Thesis: Exploring the dynamics of ecological species in intransitive competition networks

MSc in Mathematical Modelling, Makerere University, Uganda (2014). Thesis: A Finite Volume Transient Groundwater Flow Model

MasterClass in Numerical bifurcation analysis of dynamical systems, Mathematical Research Institute(MRI), Utrecht University, Netherlands (2010)

PGDip in Mathematical Sciences, African Institute for Mathematical Sciences(AIMS) and University of Cape town, South Africa (2009)

BSc.Educ. (Mathematics , Chemistry), Makerere University, Uganda (2008)

UACE, Makerere College School, Uganda (2003)

UCE, Kitante Hill School, Uganda (2001)

Scientific output

Publications in international journals (ISI-papers)

Rao, S., Muyinda, N., & De Baets, B. Stability analysis of the coexistence equilibrium of a balanced metapopulation model. *Sci Rep* **11**, 14084 (2021).

Muyinda, N., De Baets, B. & Rao, S. Non-king elimination, intransitive triad interactions, and species coexistence in ecological competition networks. *Theor Ecol* **13**, 385-397 (2020).

Muyinda N, Baetens JM, De Baets B, Rao S. Using intransitive triads to determine final species richness of competition networks. *Physica A*, Vol. **540**, 123249 (2020).

Other papers

Muyinda, N., De Baets, B., & Rao, S. (2018). On the linear stability of some finite difference schemes for nonlinear reaction-diffusion models of chemical reaction networks, *Communications in Applied and Industrial Mathematics*, 9(1), 121-140.

PROJECTS

PI on Positioning Mathematics as a Tool for Sustainable Fisheries Management: A Mathematical Model for Fish Stock Assessment in Lake Victoria under the MakRIF Round 4 Award (2022 - 2023)

Work Experience

Nov. 2020 - Present	Assistant Lecturer, Department of Mathematics, Makerere University
Sept. 2015 - Oct. 2020	Teaching/Research Assistant, Ghent University Global Campus, Incheon, South Korea
Dec. 2014 - Aug. 2015	Assistant Lecturer, Department of Mathematics, Makerere University
Oct. 2010 - Nov. 2014	Teaching assistant, Department of Mathematics, Makerere University
Sept. 2010 - May 2012	Part-Time Lecturer, Uganda Christian University, Mukono
Oct. 2007 - July 2008	Teacher of applied mathematics for high school students, at Mbogo mixed secondary school in Kampala, Uganda

SKILLS

Computing

- Excellent use of MS-office (Word, Excel, Power Point and Access)
- Programming in Matlab
- Use of Latex.
- Use of mathematical computer packages including Matcont, Maple and Mathematica.