

Josephine Nanyondo



Qualification:

Bachelor of science education, BSc Ed (Maths/Computer from Busitema university), Master of Science in Applied Mathematics, MSc (Mak), PhD in Mathematics-ongoing (Mak).

Designation: Lecturer and Secretary of the department.

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Area of specialization: Applied Mathematics (Partial Differential Equations)

COURSES TAUGHT: Probability Theory I, Linear Algebra I, Foundations of Mathematics, Ordinary Differential Equations I, Linear Algebra II, Number Theory, Real Analysis I, Mechanics, Biomathematics, Basic Mathematics, Calculus II, Introductory Calculus, Introductory Linear Algebra, Descriptive Statistics, Statistical Inference.

Research supervision:

Two (2) bachelor's students.

Networks and Membership

1. Eastern Africa Network for Women in Basic Sciences (EANWOBAS).
2. Uganda Women Mathematicians (UGAWOM).
3. African Women in Mathematics.

Publications:

1. Nanyondo, J., and Kasumba, H. (2024). Analysis of heterogeneous vehicular traffic: Using proportional densities. *Physica A: Statistical Mechanics and its Applications*, Volume 633, 1 January 2024, 129387. <https://doi.org/10.1016/j.physa.2023.129387>
2. Nanyondo, J., and Mugisha, J. Y.T., and Kasumba, H. Introducing time fractional-order derivatives to second-order macroscopic heterogeneous traffic flow modelling. Available at SSRN: <https://ssrn.com/abstract=5343137> or <http://dx.doi.org/10.2139/ssrn.5343137>