

Joshua Mwasunda is an Assistant Lecturer in the Department of Mathematics, Physics and Informatics at Mkwawa University College of Education (A constituent College of the University of Dar es Salaam). He completed Bachelor of Science with Education majoring in Mathematics and Geography in the year 2009 and Master of Science in Mathematical Modeling in the year 2012, both at the University of Dar es Salaam. His research interests are centered on Applied Mathematics especially in modeling physical/social phenomena such as diseases and population. During his MSc studies, he studied courses such as ecological modeling, disease modeling (epidemiology), numerical methods, insurance mathematics, mathematics of finance, data assimilation methods, optimization methods of operational research, partial differential equations, computational fluid dynamics, stochastic differential equations, computer programming, dynamical systems and ordinary differential equations. He did MSc research on modeling the impact of sterile insect technology for control of anopheles mosquito population in Tanzania. He teaches undergraduate Mathematics courses including ordinary differential equations, linear programming and functions of single variable.

Contacts:

Emails: joshuamwasunda@gmail.com; mwasunda@muje.ac.tz

Phone: +255753022318

Publication:

Joshua A Mwasunda, Eunice W Mureithi, and Nyimvua Shaban, “The Use of Non-Standard Finite Difference Schemes to Solve the DAMP and SIT Models.” *Journal of Mathematical Sciences and Applications*, vol. 3, no. 2 (2015): 25-32. doi: 10.12691/jmsa-3-2-2.