

Rofiat Adewumi ADERINOYE-RABIU

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Education

Master of Education Mathematics Education - University of Ibadan, Ibadan, Oyo State, Nigeria
2021- 2023

Postgraduate Diploma in Education PGDE, University of Ibadan, Ibadan, Oyo State, Nigeria 2018 - 2020

Master of Science Mathematics - University of Ibadan, Ibadan, Oyo State, Nigeria 2014 - 2016

Master of Business Administration MBA- University of Ilorin, Ilorin, Kwara State, Nigeria 2010 - 2012

Bachelor of Science- Mathematics – Olabisi Onabanjo University, Ago-Iwoye, Ogun State, Nigeria 2002
- 2007

Research Summary

My research interests are centered around the mathematical modeling of physical and biological systems, with a particular emphasis on the epidemiology of malaria. I aim to develop and analyze models that can predict the transmission dynamics of malaria, assessing how various factors—such as environmental changes, human behavior, and public health interventions—influence the spread of this disease. Additionally, I integrate data science techniques to analyze large datasets related to malaria incidence, vector populations, and climatic variables, to refine models and contribute to more effective disease management strategies. Through my work, I hope to enhance our understanding of malaria epidemiology and support informed decision-making in public health policies.

Publications

1. Olayemi Kehinde Samuel, Salawu Adamu Saka, Aderinoye-Rabiu Rofiat Adewumi, Isah Ibrahim Onimisi, Onoja Thomas and Owonipa Oluremi Rasheedat. 2024. Second Order Fredholm Integro-Differential Equations Solver Via Multistep Method With Newton-Co[^]tes Quadrature. Advance Journal of Science, Engineering and Technology, Volume:9; Issue:7, 2024. ISSN: 2330 – 1744. <https://aspjournals.org/ajset/index.php/ajset>
2. Olupitan,O.G, Taiwo, M., Adedapo, K.F, Aderinoye-Rabiu, R. A. and Oloja S. V. Mathematical Model of Lassa Fever Transmission Dynamics In Prevalent ommunities In Nigeria: The Case Study Of Ondo State
3. Aderinoye-Rabiu Rofiat Adewumi, Falebita Oluwatobiloba Tanimola, Usman AbdulAzeez Adebayo, Bello Abdulhakeem Bolakale. The Integration of Information Communication Technology in Mathematics Teaching: Assessing Educators' Attitude and Self-Efficacy. Equity Journal of Science and Technology (under peer-review)
4. Aderinoye-Rabiu Rofiat Adewumi, Bello Abdulhakeem Bolakale, Usman AbdulAzeez Adebayo, Falebita Oluwatobiloba Tanimola, Oloyede, Gideon Oyewale. Assessing The Influence of Primary Mathematics Educators' Content Knowledge And Pedagogical Content Knowledge on Teaching Effectiveness. Journal of Pedagogical Research (under peer-review)

Advanced Courses, Abstract Presentations, and Conferences

Usman A. A, Aderinoye-Rabiu Rofiat, Adedapo K.F, Olupitan G.O. 2024. Generalised Coupled Fixed Point on Cone Metric Space, Association of Mathematical Sciences and Optimization, held at TASUED between 26th-30th August, 2024.

A three-day Online Workshop on using Maple/MapleSim Software to solve Problems In Robotics, Mathematical Modeling, Physics, Engineering and Science, 14th-16th October, 2024.

Courses Taught

- MTH 101 (Elementary Mathematics)
- MTH102 (Introduction to Calculus)
- MTH 224 (Logic and Algebra)
- ITH 313 (Numerical Method to ITH) 2024

Current Employment

Assistant Lecturer at the Federal University of Health Sciences, Ila-Orangun, Osun State, Nigeria
December 2023 till date

Academic Referees

1. **Dr. Olupitan Gabriel**
Department of Physical and Chemical Sciences,
Federal University of Health Sciences, Ila-Orangun, Osun State, Nigeria
email: oluwamuyiwa.olupitan@fuhsi.edu.ng
2. **Dr. Adedeji Tella**
Department of Science and Technology Education,
University of Ibadan, Ibadan, Nigeria.
email: dejtell@yahoo.co
3. **Salawu Adamu Saka**
Department of Mathematical Sciences,
Prince Abubakar Audu University, Anyigba, Kogi, Nigeria.
email: salawu.as@ksu.edu.ng