




# Dennis Osei Yeboah

## Curriculum Vitae



P.O. Box 25, University of Education,  
Winneba

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M.PHIL. RESEARCH

“Assessing the Efficiency of some University Hospitals in Ghana using Data Envelopment Analysis ”

Charnes, Cooper, and Rhode (CCR) model was used to; estimate the technical efficiency of three university hospitals in Ghana, identify inefficient hospitals as a basis for directing management’s effort toward increasing efficiency and reducing health care costs, provide projections for each inefficient hospital in the form of targets to be achieved to reach optimum efficiency, and maximize health gains from available resources of each university hospital.

M.SC. RESEARCH

“Application of Multigrid methods for Continuation Problems ”

Multigrid method was applied to find solution to a large system of equations after discretizing a parameter dependent nonlinear partial differential equation. I used the package of algebraic multigrid methods in python for the implementation of the problem.

TEACHING EXPERIENCE

APRIL 2021- DATE (FT)

University of Education, Winneba- Ghana

Assistant Lecturer

- Design course manuals for undergraduate courses
- Deliver lectures, seminars, and tutorials to undergraduate students
- Design and administer assessments, including exams, quizzes, and assignments
- Conduct research for publication
- Serve as a mentor, offering guidance on undergraduate research projects

MAY 2021- DATE (PT)

College of Distance and e-Learning (CoDel), UEW

Tutor

- Prepare course materials for lecturing undergraduate and Diploma courses
- Provide academic and personal support to students, including counselling when necessary

EDUCATION

- 2024-DATE

Doctor of Philosophy

Applied Mathematics

Kwame Nkrumah Univ. of Science and Tech.
- 2022-2023

Master of Philosophy

Applied Mathematics

Kwame Nkrumah Univ. of Science and Tech.
- 2021-2022

Post Graduate Diploma

Teaching and Learning in Higher Education

University of Education, Winneba
- 2017-2018

Master of Science

Mathematical Sciences

Africa Institute for Mathematical Sciences
- 2012-2016

Bachelor of Science

Mathematics

Kwame Nkrumah Univ. of Science and Tech.

AWARD

- 2017

Next Einstein Masters Scholarship

Africa Institute for Mathematical Sciences

RESEARCH INTERESTS

- Hospital Efficiency and Performance
- Technology Integration in Learning of Mathematics
- Interpretable Neural Networks for Healthcare Decision Support.
- Benchmarking and Best Practices

TECHNICAL SKILLS

- PROGRAMMING LANGUAGE

Python, R
- SOFTWARE

Microsoft Office Suite, L<sup>A</sup>T<sub>E</sub>X Geogebra

SEPTEMBER, 2016 – AUGUST, 2017 (FT)

Kwame Nkrumah University of Science and Technology  
*Teaching Assistant*

Course titles: Multivariable Calculus; Linear Algebra

- Provided support during classroom activities
- Provided one-on-one and small group assistance to reinforce learning concepts
- Assisted in grading assignments, exams, and other assessments
- Facilitated communication between students and the professor

## REFEREES

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### Very Rev.(Prof.) William Obeng-Denteh

POSITION Head of Mathematics Department  
EMPLOYER Department of Mathematics  
*Kwame Nkrumah University of Science and Tech.*  
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### Prof. Michael Johnson Nabie

POSITION Assoc. Professor of Mathematics Education  
EMPLOYER *University of Education, Winneba*  
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## PUBLICATIONS

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Gershon Kwame Mantey, Felix Edusei, **Dennis Osei Yeboah**, Akoto Yaw Omari-Sasu (2022). Modelling the Determinants of Students' Performance in Mathematics. *African Journal of Educational Studies in Mathematics and Sciences*, Vol. 18, No. 1. 2022.

Peter Akayuure, Richard Asumadu Oppong, Dorcas Attuabea Addo, **Denis Osei Yeboah**, (2022). Geometric Thinking Behaviours of Undergraduates on-Entry and at-Exit of Online Geometry Course. *Science Journal of Education*, Vol.10, No.5,2022,pp. 155-163.

Amoah, E. K., Kyeremeh, P., **Yeboah, D. O.** (2021). Students' and Lecturers' Perceptions about the Effectiveness and Challenges of Online Mathematics instruction during the Covid-19 Partial Lockdown. *African Journal of Educational Studies in Mathematics and Sciences*, Vol. 17, No. 1. 2021.