Louis Osei
Curriculum Vitae

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MPHIL RESEARCH

"STRUCTURE TO POLYNOMIAL FUNCTORS IN ORTHOGONAL CALCULUS"

My research examined linear polynomial functors and generalized it to the $n-$ polynomial functors as in the algebraic and topological settings. It further looked at the structure of which the functors from the category of inner product spaces to pointed spaces or any space enriched over Top_* takes.

PROFESSIONAL APPOINTMENT

JUNE 2023- DATE

University of Education, Winneba- Ghana
Lecturer

JULY 2021- JUNE 2023

University of Education, Winneba- Ghana
Assistant Lecturer

SEPTEMBER, 2020 - AUGUST, 2021

Nkoranza North Senior High School.
Head of Mathematics department

SEPTEMBER, 2019 - AUGUST, 2020

Nkoranza North Senior High School.
Exams Officer

SEPTEMBER, 2016 - AUGUST, 2021

Elective and Core Mathematics teacher (Nkoranza North Senior High School).
Subject Teacher

SEPTEMBER, 2015 - AUGUST, 2016

Core Mathematics teacher (Saint Monica's Senior High School)
Subject Teacher

EDUCATION

2020–ONGOING	**Doctor of Philosophy** Pure Mathematics *Kwame Nkrumah University of Science and Technology*
2019 – 2020	**Postgraduate Diploma in Education** Mathematics *Catholic University College of Ghana*

COMPUTER SKILLS

PROGRAMMING LANG.	Python, Java, C++, Matlab,Visual BAsic
TDA TOOLS	Persistent Homology, mapper algorithm
ML ALGORITHMS	Supervised, unsupervised learning

COURSES TAUGHT

PROGRAMMING LANG.	Python, Java, Visual BAsic
TOPOLOGY	Point-set Topology, Algebraic Topology
ALGEBRA	Abstract Algeba, Linear Algebra
STATISTICS	Experimental Design

COMMUNICATION SKILLS

CONFERENCE	Oral Presentation at Ghana Science Association

AWARDS

2023	**KaggleX BIPOC Mentorship Grant for Data Scientists Project: Credit card fraud detection using topological data analysis(Mapper algo.) with Machine Learning**

CONFERENCES AND SEMINARS

Directorate of Research, Innovation and Development (DRID)
Building an Excellent University through Funded Research and Innovation **July 2022**

Faculty of science education retreat and workshop faculty of science education. **August 2022**

Proposal writing seminar for senior members of the faculty of science education (all day grantsmanship workshop) **February 2022**

PUBLICATIONS

Assuah, C. K., **Oseia, L**., Manteya, G. K. (2022). University Mathematics Major Students' Ratings of Their Lecturers' Preferred Teaching Methods: A Repeated-Measures Design. *British Journal of Education, 10(15), 37-45.*
2022 **doi:doi.org/10.37745/bje.2013/vol10n153745**

Assuah, C. K., **Osei, L.**, Mantey, G. K. (2022). The Effect of Inquiry-based Learning on Senior High School Students' Achievement in Plane Geometry: Pre-test-Post-test Randomized Experimental Design. *Asian Research Journal of Mathematics, 18(11), 320-331.*
2022 **doi:10.9734/arjom/2022/v18i11604**

Osei, L., Obeng-Denteh, W., Owusu-Mensah, I., Zigli, D. D. (2021). Structure to polynomial functors in orthogonal

2017–2019	**Master of Philosophy**
	GRADE A
	Pure Mathematics
	Kwame Nkrumah University of Science and Tech.
2011 – 2015	**Bachelor of Science**
	Department of Mathematical sciences (Mathematics)
	University for Development Studies

calculus I. *Science World Journal, 16(3), 369-376.*

Osei, L., Obeng-Denteh, W., Owusu-Mensah, I., Zigli, D. D. (2021). Structure to polynomial functors in orthogonal calculus II. *Science World Journal, 16(3), 377-383.*
   Structure to polynomial functors in orthogonal calculus II

Alhassan, E. A., Albert, L., **Louis, O**. (2015). On some Applications of Beta Function in some Statistical Distributions.
   On some Applications of Beta Function in some Statistical Distri