

PMB, Mathematics Department, KNUST, Kuamsi

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"when you finally make it, teach others how to make it"

Education

Kwame Nkrumah University of Science and Technology (KNUST)

Math Dept., KNUST

PHD SCIENTIFIC AND INDUSTRIAL MODELING

2018-June 2022

• Got Norwegian Scholarship through the Petroleum Letters

Kwame Nkrumah University of Science and Technology (KNUST), National Institute for Mathematical Science,

Math Dept., KNUST

MPHIL SCIENTIFIC AND INDUSTRIAL MODELING

2014-2017

• Got Norwegian Scholarship through the Petroluem Letters,.. for the period

Kwame Nkrumah University of Science and Technology (KNUST)

Kumasi

BSC. MATHEMATICS

2010-2014

Area of Expertise _____

COMPUTATIONAL FINANCE

- Pricing of Financial Derivatives
- Numerical Functional Analysis: Wavelet Techniques
- · Stochastic modelling with applications in finance

Skills

Programming R,Python,LaTeX,Matlab

Web, Database Management HTML, Java Script, PgAdmin

Languages English

Experience _____

Math Department, KNUST

Kumasi

01.May2022-date

LECTURER

• Lecturing Mathematics courses

• Supervisor: Undergraduate and Postgraduate Research

Math Department, KNUST

Kumasi

Nov. 2021 - May2022

• Lecturing Mathematics courses

• Supervisor: Undergraduate and Postgraduate Research

Association of Ghanaian Women in Mathematics

GENERAL SECRETARY

ASSISTANT LECTURER

• Organisation of Meetings

• Effective records and administrative works

Pre-MEST Kumasi

WEBDEVELOPMENT PROGRAMMING STUDENT

10 weeks, 2021

Jan,2022 - Present

• Learn general web design and web development

Publication

Time-Frequency Coherence and Fore- cast Analysis of Selected Stock Returns in Journal of Advances in Mathematics Ghana Using Haar Wavelet and Computer Science

RHYDAL ESI EGHAN, PETER AMOAKO-YIRENKYI, AKOTO YAW OMARI-SASU, NANA KENA FRIMPONG

(2019), 30(5),1-12

On the Study of Dynamical Model of Moods Pertaining to Etching Behavioural Patterns

European Journal of Academic

Essays

OBENG-DENTEH WILLIAM, KYEI JOHN, EGHAN ESI RHYDAL

(2014), 1(7):63-69.

Honors & Awards

INTERNATIONAL

23July05Aug.2023

SUMMER INSTITUTES BIO-STATISTICS, Observational Data Analysis

23July05Aug.2022

SUMMER INSTITUTES BIO-STATISTICS, Big-Data Analysis

University of
Washington, Seattle
Washington, Seattle

DOMESTIC

May 2022 PhD Scientific Computing and Industrial Modeling,

Nation Institute for Mathematical Sciences Nation Institute for Mathematical

June 2017 MPhil Scientific Computing and Industrial Modeling,

Sciences KNUST

July 2014 Bsc. Mathematics,

Presentation

Ghana Science Association, Monthly Colloquium

Online 28.Feb.2025

Speaker

• Talk on Handling Missing Data

Heidelberg Laureate Forum Conference

New University, Heidelberg

POSTER PRESENTATION

25-29.Sept.2023

· Pricing of European Options with Legendary Wavelet Technique

Weekly Steam Heroines Talk

Online

GUEST SPEAKER

PRESENTER

19th August.2022

 GIRLS FOR TECH AND INNOVATION-AFRICA: Uganda- KAMPALA (How STEAM Education can BOOST our Educational System)

Nims Conference KNUST, IDL Conference Center

Correlation Analysis of Selected Ghanaian Stocks with Wavelet Coherence Technique

Nov. 2017

Seminars & Conferences _____

INTERNATIONAL

MFO Workshop Oberwolfach-Germany

Participant 01-06 Oct. 2023

• meeting of young researchers in financial mathematics

Heidelberg Laureate Forum Conference

Heidelberg-Germany

23-29 Sept.2023

PRESENTER

• meeting of laureates and young researchers in math and computer science

MARCH 4, 2025 RHYDAL ESI. EGHAN · RÉSUMÉ

ICTP/Workshop on Scientific Use of Machine Learning on Low-Power Devices: **Applications and Advanced Topics**

Online

KNUST,Ghana

KNUST, IDL Conference Center

Africa Institute for Mathematical

Sciences(AIMS)-Ghana

PARTICIPANT 17 - 21 April 2023

Future of Science Conference

PARTICIPANT

Africa Institute for Mathematical Science(AIMS), Rwnada

July. 2019

DOMESTIC

Indaba Ghana Conference University of Ghana, Legon

PARTICIPANT 03 Sept-09 Sept. 2023

Africa young research in Machine Learning

UNESCO Recommendation On Science And Scientific Researches Amonizer Conference Center, KNUST

PARTICIPANT 17th Nov. 2022

Organisation for Women in Science for Developing World (OWSD)

PARTICIPANT Nov. 2018

Nims Conference on Scientific Computing and Industrial Modeling

Nov. 2017

• Correlation Analysis of Selected Ghanaian Stocks with Wavelet Coherence Technique

Africa Institute for Mathematical Stochastic Optimal Control and Application (SOCA-workshop) Sciences(AIMS)-Ghana

PARTICIPANT Aug. 2017

Stochastic Application, Research Training (START-workshop)

PARTICIPANT Feb. 2017

Committees_

2024,2025 **Member**, E-learning Ghana Conference:Planning Committee **KNUST**

Member, Ghana R Conference: Planning Committee **KNUST**

Member, E-learning Ghana Conference:Planning Committee **KNUST**

2023,2024 **Member**, International Day of Mathematics Celebration Math.Dept,KNUST

2023,2024 Secretary, Visibility Committee Math.Dept.KNUST

2022 **Member**, Health and Safety Committee COS-KNUST

2022-Date Assistant Seminar Coordinator, Math Dept. Postgraduate Seminar Math.Dept,KNUST

Extracurricular Activity _____

Olam Cocoa Processing Kaase Industrial Area, Kumasi

PANEL MEMBER 11th February. 2025

• International Day of Women & Girls in Science, Panel Discussion: Unpacking Stem Careers:Her Voice in Science

E-learning Center KNUST

TRAINER 8th -9th,21st-23rd. January. 2025

• Training KNUST Faculty Members on Online Item Writing for Learning Management System

African Institute for Mathematical Girls in Mathematical Sciences Program (GMSP) Sciences-Ghana -Ghana

25th-30th November. 2024 THITOR

• Tutor for mini-course: Quantitative Finance

RHYDAL ESI, EGHAN · RÉSUMÉ MARCH 4, 2025

Outreach, IDM 2024

Kumasi Anglican Senior High School

SPEAKER 14 May 2024

Sensitize student on the fan of mathematics in their curriculum

Outreach , IDM 2023 KNUST Senior High School

Мемвеr 14 May 2023

Advocate the relevance of mathematics studies offered at such level n beyound . And it relevance in societal development and in every day life

References_

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HEAD OF DEPARTMENT DEPARTMENT OF MATHEMATICS KNUST

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Dr. Gaston Edem Awashie +(233) 556088720

LECTURER DEPARTMENT OF MATHEMATICS KNUST