

LECTURER · MATH.DEPT,KNUST

PMB, Mathematics Department, KNUST, Kuamsi

🛮 (+233) 501373274 | 🗖 esi.eghan@knsut.edu.gh // rhydaleghan@gmail | 🎁 https://www.math.knust.edu | 🗖 rhydal | 🛅 rhydal esi eghan

"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 2010-2014

BSC. MATHEMATICS

.

Area of Expertise _____

COMPUTATIONAL FINANCE

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

Skills____

Programming R,Python, JavaScript,LaTeX,Matlab

Web Express with Node.JS, HTML5, PgAdmin4

Languages English

Experience _____

Math Department, KNUST

Kumasi

LECTURER

01.May2022-date

- Lecturing Mathematics courses
- Supervisor: Undergraduate and Postgraduate Research

Math Department, KNUST

Kumasi

Assistant Lecturer

Nov. 2021 - May2022

- Lecturing Mathematics courses
- Supervisor: Undergraduate and Postgraduate Research

Math Department, KNUST

Kumasi

GRADUATE ASSISTANCE

Jan. 2020 - July. 2021

Mathematics Tutor

• Assistance in Undergraduate and Postgraduate Student's Research

Association of Ghanaian Women in Mathematics

Ghand

GENERAL SECRETARY

Jan,2022 - Present

• Organisation of Meetings

• Effective records and administrative works

Pre-MEST Kumasi

WEBDEVELOPMENT PROGRAMMING STUDENT

10 weeks, 2021

· 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

Obeng-Denteh William, Kyei John, Eghan Esi Rhydal

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

Legendre Wavelet Collocation Method for Pricing European Options Under Jump Diffusion Models

RHYDAL ESI EGHAN, GASTON EDEM AWASHIE, PETER AMOAKO-YIRENKYI, AKOTO YAW OMARI-SASU

under review

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

University of Washington, Seattle

DOMESTIC

May 2022 PhD Scientific Computing and Industrial Modeling,

Nation Institute for Mathematical

Sciences
Nation Institute for

June 2017 MPhil Scientific Computing and Industrial Modeling,

Mathematical Sciences

July 2014 Bsc. Mathematics,

KNUST

Presentation

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

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

PRESENTER

Nov. 2017

• Correlation Analysis of Selected Ghanaian Stocks with Wavelet Coherence Technique

Seminars & Conferences _____

INTERNATIONAL

MFO Workshop

Oberwolfach-Germany

01-06 Oct. 2023

meeting of young researchers in financial mathematics

Future of Science Conference

Africa Institute for Mathematical

Science(AIMS), Rwnada

Participant July. 2019

Heidelberg Laureate Forum ConferenceHeidelberg-GermanyPRESENTER23-29 Sept.2023

meeting of laureates and young researchers in math and computer science

ICTP/Workshop on Scientific Use of Machine Learning on Low-Power Devices:

Online

Applications and Advanced Topics

PARTICIPANT 17 - 21 April 2023

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 ResearchesAmonizer Conference Center, KNUST

Participant 17th Nov. 2022

Organisation for Women in Science for Developing World (OWSD)

KNUST, Ghana

Participant Nov. 2018

Nims Conference on Scientific Computing and Industrial Modeling KNUST, IDL Conference Center

PRESENTER Nov. 2017

Correlation Analysis of Selected Ghanaian Stocks with Wavelet Coherence Technique

Stochastic Optimal Control and Application (SOCA-workshop)

Africa Institute for Mathematical
Sciences(AIMS)-Ghana

Participant Aug. 2017

Stochastic Application, Research Training (START-workshop)

Africa Institute for Mathematical
Sciences(AIMS)-Ghana

Participant Feb. 2017

Committees

2023Member, Ghana R Conference:Planning CommitteeKNUST2022Member, E-learning Ghana Conference:Planning CommitteeKNUST2022Team Lead, International Day of Mathematics CelebrationMath.Dept,KNUST2022Secretary, Visibility CommitteeMath.Dept,KNUST

2022 **Secretary,** Visibility Committee *Math.Dept,KNUST*2022 **Member,** Health and Safety Committee *COS-KNUST*

2022-2023 **Assistant Seminar Coordinator**, Math Dept. Postgraduate Seminar Math.Dept,KNUST

Extracurricular Activity _____

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

Member 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

MAY 17, 2024 RHYDAL ESI. EGHAN · RÉSUMÉ 3

References _____

Rev.Prof William Obeng-Denteh Head of Department Department of Mathematics KNUST	+(233) 240516747
Dr. Peter Amoako-Yirenkyi Senior Lecturer Department of Mathematics KNUST	+(233)501634391
Dr. Yaw Akoto Omari-Siaw Senior Lecturer Department of Mathematics KNUST	+(233) 246289226
Dr. Gaston Edem Awashie Lecturer Department of Mathematics KNUST	+(233) 556088720