

EUGENE KONADU YIADOM

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MAILING ADDRESS

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PROFILE

Passionate and motivated biochemistry graduate with a strong interest in bioinformatics and computational biology. Possesses a Bachelor of Science (Hons) in Biochemistry from the University of Cape Coast with a track record of academic excellence. Extensive research experience in computational methods, laboratory work, and data analysis. Proven abilities in interdisciplinary and collaborative research, and hands-on experience in experimental methods. Adept at using various bioinformatics tools and software applications. Eager to contribute to scientific advancement through a PhD in Bioinformatics and Computational Biology, focusing on the development and application of computational methods in biological and health sciences.

EDUCATION

BS	University of Cape Coast, Biochemistry Central Region, Cape Coast – Ghana Graduated Cum Laude	November 2022
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WASSCE	Dwamena Akenten Senior High School General Science (Pure Science) Ashanti Region, Offinso – Municipal, Ghana	May 2017
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HONORS AND AWARDS

Program Representative of the year Ghana Biochemistry Students Association (GHABSA) University of Cape Coast, Cape Coast – Ghana	2019/2020
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AREA OF EXPERTISE

Research and Laboratory Skills

- Experimental design, Data interpretation.
 - PCR, Gel electrophoresis, Sequencing
- Bioinformatics Tools and Software
Project Management and Collaboration

Data Analysis and Visualization

Programming and Scripting Languages
Machine Learning, Artificial Intelligence
Databases and Data Management
Software Development and Version

RESEARCH EXPERIENCE

Undergraduate Research Project

University of Cape Coast, Department of Biochemistry, Biochemistry Lab

Conducted a comprehensive study investigating in silico studies of bioactive compounds of *azadirachta indica* on phospholipase a2 as a potential target for snakebite treatment.

Designed and executed experiments to analyze the potential of some phytochemicals from *azadirachta indica* as targets for phospholipase A2 protein in snake venom.

Collaborated with a team of researchers to interpret results, analyze data using bioinformatics tools, and present findings at the University of Cape Coast, Department of Biochemistry, earning recognition for the project's innovation and potential impact on Biochemistry.

Advisor / Supervisor: Professor Michael B. Adinotey

November 2022

Undergraduate Research Mini - Project

University of Cape Coast, Department of Biochemistry, Biochemistry Lab

Conducted a comprehensive study on compiling brain enhancers of *shox 2* using the enhancer browser and published data.

Designed and executed experiments to compile all brain enhancers of *shox 2* from both published data and enhancer browsers.

Collaborated with a team of researchers to interpret results, analyze data using VISTA Enhancer Browser, PDB, Published data / articles, and present findings at the University of Cape Coast, Department of Biochemistry, earning recognition for the project's innovation and potential impact on Biochemistry.

Advisor / Supervisor: Dr. Samuel Abassah Oppong

October 2021

RESEARCH INTEREST

Project: Structural-based virtual screening to identify potential inhibitors of sars-cov-2 main proteases (m-pro or 3-chymotrypsin-like and papain-like) from both natural products and synthetic drugs.

Project: Investigate the genomics of cancer, including the identification of driver mutations, biomarker discovery, and personalized medicine approaches.

Project: Advancements in Diabetes Care, harnessing interdisciplinary synergy between Gene therapy, bioinformatics, and precision molecular interventions.

Project: In vitro and in silico studies of natural products as potential targets of Hepatitis C virus and Hepatitis B virus to minimize cirrhosis and liver cancer and promote liver health.

TEACHING EXPERIENCE

Divaid International School

April 2017 – July 2018

Ashanti Region, Ghana.

Postal Area: Bohyen-Ampabame 1636

Post Code: AF1636

Teacher and Head of Students Leadership Association

- Taught the Pupil of Class five (5) as well as Junior High School
- averaging 43 students per semester / term, covering the following topics: Integrated science, Mathematics
- Developed quizzes, exams, and homework
- Revised the syllabus to meet accreditation standards
- Coordinated grading with a team of 3 teaching assistants

WORK EXPERIENCE

Laboratory Scientist (Attachment)

Kintampo Health Research Centre

Bono East Region, Kintampo North, Ghana

May 2021 – July 2021

Medical Laboratory Scientist (Internship)

Tetteh Quarshie Memorial Hospital Laboratory

Eastern Region, Akuapem North, Ghana

November 2022 – October 2023

EXTRACURRICULAR ACTIVITIES

Program Representative

Biochemistry

University of Cape Coast

August 2018 – November 2022

Events Coordinator

Ghana Biochemistry Students Association (GHABSA)

University of Cape Coast

2021 – 2022

Service Personals Representative

Tetteh Quarshie Memorial Hospital Laboratory

2022 – 2023

PROFESSIONAL TRAINING AND SERVICE

Field Officer (Enumerator)

Population and Housing Census (PHC) 2021

Ghana Statistical Service (GSS)

Suame Municipal, Ashanti Region, Ghana.

July 2021

COMMUNITY SERVICE

Tetteh Quarshie Memorial Hospital (TQMH) Laboratory

- Blood Screening and Donations

J. G. Knol Technical Institute, Adukrom, Eastern - Ghana

August 2023

- Blood Screening and Donations

I.C.G.C. Akropong, Eastern - Ghana

June 2023

- Screening and Education on Diabetes, Hepatitis B and C and HIV

Tinkong, Eastern – Ghana

August 2023

Women Organizer, New Patriotic Party (NPP)

- Blood Glucose, Hepatitis B and C, Malaria and HIV Screening

Tinkong, Eastern – Ghana

July 2023

SKILLS

General Skills:

- Cell culture
- Microscopy
- Bioinformatics
- Communication
- Tissue Processing
- Data Collection and Analysis
- Quality Control and Assurance
- ELISA, PCR and Gel Electrophoresis
- Sample Preparation, Collection And Processing
- TB Diagnosis with Real Time PCR (Gene Xpert)
- Database Management System, Web Development and Ethical Hacking

Computer Skills:

Programming: Python (Django, Biopython), C++, R, JavaScript (JQuery, REACT), PHP (Laravel), Linux, PowerShell, SQL (MySQLi), HTML, CSS, SCSS

Applications: Microsoft Word, Access, Excel, VBA, PowerPoint, Pyrx, Rasmol, Pymol, Cytoscape, VMD, Avogadro, ChemsSketch, Lig Plot Plus, AutoDock Vina, BioVia Studio

Platforms: PDB, EMBL, Blast, GenBank, Swiss-model, Swiss-Adme, PubChem, Swiss-Port

Administrative Management Systems: Hospital Administrative Management System (HAMS), Lightwave Health Information Management Systems (LHIMS)

LANGUAGES

Ghanaian Language (Twi): Native Language

English (Official Language): Advanced Listener, Intermediate Speaker, Advanced Reading and Writing

French: Intermediate Listener, Novice Speaker, Intermediate Reading and Writing

OTHERS

Interest / Hobbies: Coding and Programming, UI, UX and Graphic Designing, Reading and Writing, Culture and Languages Learning, Community Service, Sports (Football and Basketball)

REFERENCES

Dr. Ibrahim Munkaila, Head of Laboratory

Tetteh Quarshie Memorial Hospital

Phone: 0208170082

Email: ibmunkaila555@gmail.com

Mr. Eli Dzandu, Principal Medical Laboratory Scientist

Tetteh Quarshie Memorial Hospital

Phone: 0244016662

Email: pyrrole2@gmail.com

General Office

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University of Cape Coast

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