

SAMUEL PAPA KWESI OWUSU

Fukuoka, Japan | sammypapsy@yahoo.com

[LinkedIn](#) | [Portfolio Website](#)

PROFESSIONAL SUMMARY

AI and computational research professional with expertise in machine learning, deep learning, and natural language processing. Commencing doctoral research at Kyushu University in April 2026, focused on applying deep learning to biological systems — specifically RNA-binding signal prediction at the nucleotide level. Combines strong analytical and programming skills with practical teaching and consulting experience in Ghana. Passionate about leveraging AI and technology to address real-world challenges in health, agriculture, and biodiversity conservation.

EDUCATION

PhD in Biomedical Information Analysis

April 2026 – Present

Kyushu University — Fukuoka, Japan

Research focus: Deep learning models for predicting RNA-binding signals at nucleotide level

Research Student: Biomedical Information Analysis

04/2024 – 03/2026

Kyushu University — Fukuoka, Japan

Pre-doctoral research preparation in AI for biological systems

Master of Engineering: Computer Science & Technology

09/2020 – 12/2022

University of Electronic Science and Technology of China (UESTC) — Chengdu, China

Thesis: "Regret Minimization in Online Learning Algorithms" — Developed the Poker Exploitability Explorability Algorithm (PEEA)

Bachelor of Engineering: Computer Science & Technology

09/2016 – 06/2020

University of Electronic Science and Technology of China (UESTC) — Chengdu, China

Thesis: "Learning and Prediction on Large Graphs"

PUBLICATIONS & RESEARCH

1. *QTFPred: Robust high-performance quantum machine learning modeling that predicts main and cooperative transcription factor bindings with base resolution* — Co-author, Published Research
2. *Regret Minimization in Online Learning Algorithms* — Master's Thesis, UESTC (2022)
3. *Learning and Prediction on Large Graphs* — Bachelor's Thesis, UESTC (2020)

PROFESSIONAL EXPERIENCE

Lecturer — IPMC, Accra, Ghana

03/2023 – 02/2024

Lecturer in Business IT

- Designed and delivered curriculum for young adult and mature students across multiple IT courses
- Created examinations, assessments, and course content including lecture materials and assignments
- Supervised diploma and higher national diploma student projects
- Provided academic counselling and mentorship support

Consulting Assistant — SHS Consult, Accra, Ghana

09/2020 – 01/2023

- Analysed bio-data to develop and implement best practice policies and operational processes
- Managed project resources and budgets to deliver strategic objectives
- Conducted data-driven sales analysis to identify performance trends

National Service Personnel — University of Ghana Computing Systems, Legon

10/2021 – 09/2022

- Led project discussions on digitalisation of the university's residential application process
- Managed and maintained the university's Enterprise Resource Planning system

- Trained public health staff on data-driven decision-making using biodata analytics
- Documented components of the University of Ghana’s Integrated Tertiary System

Summer Intern — Anhui Hangke Photoelectricity, China

06/2017 – 08/2017

- Gained practical experience in enterprise management and cross-departmental collaboration

TECHNICAL SKILLS

Python	R	SQL	Deep Learning
Machine Learning	NLP	Neural Networks	Data Analysis
Power BI	Microsoft Office	Oracle DB	Git

AWARDS & ACCOMPLISHMENTS

- First Prize, Academic Achievement Award — UESTC
- Second Prize, Academic Achievement Award — UESTC
- Second Prize, Performance Award — UESTC

LEADERSHIP & COMMUNITY

- Organizing Secretary — Ghana Student Union Japan
- Youth Organizing Secretary — Trinity United Church

LANGUAGES

English (Native) • Japanese (Basic)