

Samuel Boampong Nkrumah

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Education & Work Experience

Franko Trading Enterprises - Ghana, Financial Auditor
University of Missouri – Columbia Biochemistry PhD Program
Fisk University, B.Sc. Biology
Opoku Ware School, WASSCE Cert. in General Science

October 2019 – January 2020
August 2018 – January 2019
August 2014 – May 2018
August 2010 – May 2013

Software, Skills & Coursework

Github
Python, R, Machine Learning
Coursera Bioinformatics III (Comparing Genes, Proteins and Genomes)

Awards

UCLA-HBCU Bruins in Genomics Summer Research Fellowship *June – August 2018*
MIT Biology Gould Summer Research Fellowship *June – August 2017*
Erastus Milo Cravath Presidential Scholarship, Fisk University *August 2014 – May 2018*

Research Experience

- Participant** *June 2021*
ASBCB Omics Codeathon
- Explored a machine learning model for classifying breast cancer subtypes using omics data.
- Summer Research Intern** *June – August 2018*
UCLA Bruins in Genomics Summer Research Program *Mentor: Dr. Stan Nelson*
- Developed an efficient computational method for fingerprinting DNA and RNA patient samples.
- Summer Research Intern** *June – August 2017*
MIT Biology Summer Research Program *Mentor: Dr. Tom Schwartz*
- Tested the utility of a nanobody suite for crystallizing a substructure of the Nuclear Pore Complex.
- Undergraduate Researcher** *June 2015 – August 2017*
Meharry Medical College *Mentor: Dr. Jamaine Davis*
- Used computational programs to compare and analyze BRCT domain protein sequences.
 - Developed Java based string algorithms for processing and analyzing DNA and protein sequences.
 - Studied BRCT domain interactions and their implications for DNA repair.

Undergraduate Researcher

Fisk University

August 2014 – April 2015

Mentor: Dr. Brian Nelms

- Studied the role of the FKH-8 transcription factor in *C.elegans* neurodegeneration.
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Other Projects

Brest Cancer Pred

August 2021

- Developed K-Nearest Neighbor and Elastic Net models for predicting Breast Cancer using TCGA DNA Methylation Data
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Academic Work

[Protein Folding from the Perspective of Chaperone Action](#) (2019) arXiv.

November 2019

Presentations

“Verifying Identity of DNA and RNA specimen through SNP analysis”

Department of Human Genetics, UCLA: Summer Program Showcase

August 2018

“Characterization of Nucleoporin Nanobodies”

ABRCMS Conference

October 2017

Department of Biology, MIT: Summer Program Showcase

August 2017

Teaching

Peer Tutor, Chemistry and Math, Fisk University.

August 2014 – August 2017

Teaching Assistant, Intermediate Algebra, Fisk University.

August 2015

Leadership & Service

Volunteer, [MLK Day of Service](#), Fisk University.

2017

Student Fellow, [Clinton Global Initiative University](#).

2016

Campus Representative, [Clinton Global Initiative University](#), Fisk University.

2016

Student Leader, First-Love Bible Studies Group, Fisk University

2014 – 2016