

Samuel Boampong Nkrumah

email kanjabongoland@gmail.com
phone +233-054-230-5688
web samuelbnkrumah.github.io

Education & Work Experience

Franko Trading Enterprises - Ghana , Financial Auditor	<i>October 2019 – January 2020</i>
University of Missouri – Columbia Biochemistry PhD Program	<i>August 2018 – January 2019</i>
Fisk University , B.Sc. Biology	<i>August 2014 – May 2018</i>
Opoku Ware School , WASSCE Cert. in General Science	<i>August 2010 – May 2013</i>

Skills and Coursework

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

Awards

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

Research Experience

Participant	<i>June 2021</i>
ASBCB Omics Codeathon	
- Explored a machine learning model for classifying breast cancer subtypes using omics data.	
Summer Research Intern	<i>June – August 2018</i>
UCLA Bruins in Genomics Summer Research Program	<i>Mentor: Dr. Stan Nelson</i>
- Developed an efficient computational method for fingerprinting DNA and RNA patient samples.	
Summer Research Intern	<i>June – August 2017</i>
MIT Biology Summer Research Program	<i>Mentor: Dr. Tom Schwartz</i>
- Tested the utility of a nanobody suite for crystallizing a substructure of the Nuclear Pore Complex.	
Undergraduate Researcher	<i>June 2015 – August 2017</i>
Meharry Medical College	<i>Mentor: Dr. Jamaine Davis</i>
- 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.
-

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

“Characterization of Nucleoporin Nanobodies”

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