

Samuel Nkrumah Boampong

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Education

Fisk University, B.Sc. Biology

August 2014 – May 2018

Opoku Ware School, WASSCE Cert. in General Science

August 2010 – May 2013

Skills and Coursework

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

August 2014 – April 2015

Fisk University

Mentor: Dr. Brian Nelms

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

“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