

Chigozie Nri

1001 E Villa St, Apt 16
Pasadena
California
91106

+1 (323) 909-8768
chigozie@gmail.com
chigozie@caltech.edu

Research Experience

California Institute of Technology

Pasadena, CA

PhD Student

September 2015-Present

Supervisor: Lulu Qian

Work in structural and computational DNA nanotechnology, including algorithmic tile assembly and DNA origami. Primary focus on data analysis, with some wet lab work.

Key tools: Python, Mathematica, Gel electrophoresis, Acoustic automated liquid handling, AFM, Spectrophotometry

University of Cambridge

Cambridge, UK

Master's Student

October 2012-June 2013

Supervisors: Chris Dobson, Nunilo Cremades

A variety of analytical techniques to determine the structure of the oligomeric form of α -synuclein, a proposed toxic species in Parkinson's disease.

Key tools: ELISA, Circular Dichroism, Gel electrophoresis, Spectrophotometry, Protein purification

Yale University

New Haven, USA

Summer Research Student

August-September 2012

Supervisors: Paul Clark, Jordan Pober

Assays to determine effect of TNF on expression and phosphorylation of Claudin 5, a tight junction protein, in HUVEC, mimicking vascular leak in sepsis.

Key tools: Western Blots, Gel electrophoresis

University of Strasbourg

Strasbourg, France

Summer Research Student

August-September 2011

Supervisors: Phillipe Geoffroy, Michel Miesch

Reactions towards the synthesis of Hoodigogenin A, a steroid and possible drug candidate.

Key tools: Column chromatography, Rotary evaporator, Ozonolysis

MRC Mitochondrial Biology Unit

Cambridge, UK

Summer Research Student

August-September 2010

Supervisors: Elizabeth Cerson, Edmund Kunji

Expression of human AAC1 mitochondrial transporter protein in yeast, for use in future research.

British Museum

London, UK

Summer Research Student

June-July 2010

Supervisors: Meghan Truckey, Caroline Cartwright

Identification and organisation of samples of animal bones from an archaeological dig site in Jordan.

Preparation of archaeological pottery samples for mass spectrometry.

Education

California Institute of Technology

Pasadena, CA

*PhD Bioengineering (in progress)**2015-Present*

University of Cambridge

Cambridge, UK

*MSci Natural Sciences (Class 2:1)**2012-2013*Part III (4th year): Specialising in organic and biological chemistry.*BA Natural Sciences (Class 2:1)**2009-2012*Part IA (1st year): Chemistry, Physiology, Biology of Cells, Maths APart IB (2nd year): Chemistry A – (physical and theoretical), Chemistry B – (organic, inorganic and biological), History & Philosophy of SciencePart II (3rd year): Courses in organic, inorganic, physical, biological and analytical chemistry.

Beginner Chinese for Engineers

Graveney School

London, UK

*A-levels**2007-2009*

4 A (Biology, Chemistry, Maths, French)

*GCSEs**2002-2007*

9 A* (Biology, Physics, French, Maths, Statistics, English Literature, Spanish, Sociology, Electronic Products)

4 A (Music, Religious Studies, Chemistry, English Language)

Non-research Roles

East London Science School

London, UK

*Librarian**2013-2015*

Built and managed library stock for new school, organised and helped run school trips to educational locations, assisted in lessons and advised on curriculum.

Last updated: March 19, 2018