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### **Education**

**Michigan State University,  
East Lansing, MI.**

Since August 2011.

Bachelor of Science

Anticipated: 2015

Major: Electrical engineering

**Trinity International College,  
Ogun State, Nigeria. (Secondary School)**

2005 – 2010

### **Experience**

#### **Electronic and Biological Nanostructures Laboratory**

Undergraduate Research Assistant

Fall 2012 – Present

- Performed atomic force microscopy (AFM) investigations of neural cell morphological responses to nanophysical cues
- Participated in development of new AFM-based definition for Cell Shape Index
- Participated in research dissemination through refereed publications and scientific conference presentations

#### **Center for Microbial Ecology**

Developer

October 2012 - Present

- Developing and debugging scripts for novel image analysis software (CMEIAS)
- Coding new features for CMEIAS

### **Skills/Experience**

**Software:** Microsoft Office, MATLAB, C, Python, PSpice, Spartan.

**Laboratory techniques:** Atomic Force Microscopy, X-ray Fluorescence Spectroscopy, Inductively Coupled Plasma Optical Emission Spectrometry, Atomic Emission Spectrometry.

### **Recognitions/Activities**

Vice president - Biomedical Engineers Society

March 2012 - present

Dean's List

Fall 2011, Spring 2012, Fall 2012, Spring 2013

University Distinguished Scholar, Michigan State University, 2011.

### **Refereed Symposium Proceedings:**

Tiryaki, VM, Adia-Nimuwa, U, Hartz, SA, Xie, K, Ayres, VM, Ahmed, I, Shreiber, DI. New Atomic Force Microscopy Based Astrocyte Cell Shape Index. In MRS Online Proceedings Library Volume 1527 Scanning Probe Microscopy - Frontiers in Nanotechnology, edited by M Rafailovich. Published by Cambridge University Press, Cambridge UK (2013). (DOI: 10.1557/opl.2013.417) ISSN: 1946-4274.

### **Contributed Conference Proceedings and Presentations (presenter underlined):**

U Adia-Nimuwa, VM Tiryaki, SA Hartz, K Xie, VM Ayres, I Ahmed, DI Shreiber, "Atomic Force Microscopy Based Cell Shape Index", American Physical Society March Meeting, 18-22 March 2013, Baltimore, MD.