**Education**

**Tennessee State University Doctor of Philosophy in Biological Sciences August 2018-present**

**Tennessee State University Masters of Science in Biology May 2018**

Master’s Thesis: The effects of Persin derived from Haas Avocados on microtubule activity in pancreas and breast cancer cells

**Tennessee State University Bachelor of Science in Biology August 2013**

Senior thesis project DNA Copy Number Variation at ZFR Locus on Chromosome 1 Involves Long Terminal Repeat

**Research & Employment Experience**

**Vanderbilt University VANTAGE Core Nashville, TN September 2016- August 2018**

As a Research Assistant II in the core VANTAGE lab of Vanderbilt Medical Center emphasis are placed on Bio-banking services, direct customer service and contact with lab collaborators as well as other core laboratories. Focal concentration also includes step automation, robotics, and assisting with high-throughput sequencing and genotyping.

**Metro Nashville Public Schools Nashville, TN October 2015- September 2016**

Substitute Teacher specializing in classroom management, math, and science instruction. Main focuses include providing a safe and highly productive environment mirroring that of the permanent instructor. Multiple long term substitute positions held including a position of math and reading intervention.

**Tennessee State University Nashville, TN August 2015- September 2016**

Graduate teaching assistant to Dr. Lois Harlston professor of Human Anatomy and Physiology. Assistants are responsible for prepping labs and keeping accurate records as well as assuring that all laboratory activities reinforce lecture courses and ensure retention of anatomy and physiology course information.

**Providence Englewood Charter School Chicago, IL August 2014-August 2015**

Providence Englewood Charter School is a tier one school in Chicago, IL dedicated to fostering the dreams, education, and hard-work of its students. Directed under Principal Angela Johnson-Williams, responsibilities ranged from permanent substitute teacher for middle school science and advanced mathematics pull out teacher. Students were met with intellectual challenges during small group and one-on-one sessions.

**Chicago Children’s Choir Chicago, IL August 2013- August 2015**

Chicago Children’s Choir is a non-profit organization committed to enriching the lives of children and uniting the world through music. Overseeing logistics for the Hyde Park neighborhood choir and acting as the direct liaison between conductors, parents, singers, and office administration.

**University of Chicago Human Genetics Chicago, IL May 2012 – May 2014**

As a research technologist at the University of Chicago under Dr. Yoav Gilad the focus was placed upon gene regulation with 4-thiourdine, bacteria characterization, human LCL and stem cell maintenance. Position entailed maintaining precise records, assisting in training and learning new protocols.

**Tennessee State University Undergraduate Research Nashville, TN Fall 2010- Summer 2013**

Research assistant under Dr. Xiaofei Wang amassing DNA segments from broiler chickens determining phenotypic frequencies and population variation

**Tennessee State University Undergraduate Research Nashville, TN Fall 2009 - Fall 2010**

Research directed under Dr. Elbert Myles conducting cancer treatments using secondary compounds from green, black, and white tea to establish a clear identity compounds that inhibit cell growth

**Laboratory Skills**

**Biochemistry**: Protein and Enzyme assays, Column and Thin Layer Chromatography, High Performance Liquid Chromatography

**Molecular Biology**: Western and Southern Blots, PCR, Agarose Gel Electrophoresis, Protein Expression, Cell Culture Maintenance, LCL, Stem Cells, DNA Digestion

**Cell Biology**: Hemocytometer, DNA Purification, Light Microscopy, Phase Contrast Microscopy, Density Gradient, Differential Centrifugation

**Chemistry**: Nuclear Magnetic Resonance Spectrometry, Fermentation, Filtration, Crystallization

In addition to the above lab skills I’ve also been prepped on lab safety numerous times, OSHA, as well as proper waste disposal in chemistry and biology laboratory settings.

**Computer Skills**

Microsoft Word, Excel, PowerPoint, Publisher, Google Documents, PYTHON 2.7.2, Adobe

**Volunteering**

Nashville General Hospital, Nashville, TN 2008-2010. General volunteer performing time studies for the walk in clinic.

Habitat for Humanity, Nashville, TN 2010- 2012. Kid’s HomeWORKS mentor influencing children to express their personal creativity through art work and projects as well as offering assistance with homework.

**Activities**

Tennessee State University Agricultural Center: Poultry Science Division 2010-2013

Tennessee State University Undergraduate Research 2009-2013

Biology Club 2008-2011

Vice President of MAPS 2011-2012 (Minority Association of Pre-Health Students) Subsidiary of SMNA (Student National Medical Association)

**References**

Furnished upon request