

Oreoluwa Oluwafunmito Alonge

Born 13th June 1995

Education

- **Major in** Biotechnology, Rowan College at Burlington County - Pemberton, New Jersey
January 2012 - December 2013
- Bachelor of Science in Biomedical Engineering, GPA: 3.25. Temple University - Philadelphia, PA. January 2014 - December 2016
- Master of Science in Biomedical Engineering, GPA: 3.70. North Carolina **University of Agriculture & Technology** – Greensboro, NC. January 2018 - August 2019
- Doctor of Philosophy in Biomedical Engineering (**In View**), GPA: 3.45. North Carolina **University of Agriculture & Technology** – Greensboro, NC. August 2021 – Present

Work Experience

Bioengineering Laboratory Assistant, North Carolina A&T January 2018 – August 2019

- Maintained the day to day functioning of the lab, including Collecting and Organizing Samples, Maintaining Cultures, Growth Media, and Lab supplies as well as inventory and data entry.
- 3D printed PLA stamps for High Throughput Production of Chitosan and Carboxymethyl Chitosan Scaffolds
- Performed Lyophilization, Centrifugation, Spectroscopy, Electrospinning and Swelling tests
- Worked on research projects including: Antibody Assay, Immuno-precipitation, qPCR/PRC, Recombinant DNA technology, Mass spectral data analysis, etc.

Adjunct Professor, Rowan College at Burlington County. August 2019 – December 2020

- Teach undergraduate level courses in biomedical engineering and general undergraduate courses i.e. biology, physics, etc.
- Develop teaching materials, such as Syllabi, Visual Aids, Answer Keys, Supplementary Notes, or Course Web Sites, prepare/give Examinations and Grade Papers, while demonstrating the use of Lab Materials and enforcing Laboratory Regulations
- Promote student success through a flexible but passionate teaching style while devoting energy and time for scholarly excellence

Summer Intern, Department of Virology, University College Hospital, Nigeria.

June 2014 – August 2014

- Centrifuged and analyzed 2500 samples of blood using standard microscopy while writing 75 lab reports and 10 research papers
- Sponsored international exposure to the Virology Department, at the hospital, through Joint Research Projects
- Performed HIV RNA extractions using NucliSENS® and documented the lab results
- Identified HIV strains using HIV 1/2 STAT-PAK® Dipstick

Extra-Curricular Activities

- Camp Counselor and Music Director for Pine Forest Camp (2018)
- Alumni Coordinator and External Liaison of the Society of Emerging African leaders (2016)

Awards and Accomplishments

- Won a scholarship for a resume critique competition and got an honorary mention in a Three-minute Thesis Competition (2019)

- Led a group to finish a one-year senior design project, ‘Nitinol Actuated Prosthetic Hand’, which can be used in second and third world countries (2016). This project got featured in the Philadelphia Disability Summit in 2018

Skills

- Able to fabricate Chitin fibers, Chitosan, perform Cell Culture, Electrospinning, Aseptic Techniques and experienced with Formulation, GMP, GLP, Immunoassays, Blood processing, ELISAs and Flow Cytometry, Constructed Polymers and Polyesters while inspecting the structures and utilization using data analysis software, NMR sample preparation and NMR acquisition.
- Proficient in Logic Pro, Microsoft Office, Adobe Acrobat Pro and experienced in SolidWorks, Matlab, Python and Photoshop
- Fluent in Yoruba and West African Pidgin English

Publications.

- Thesis on Contact Printing Assisted Fabrication of High Throughput Miniaturized Chitosan Scaffolds (2019)