

Please contact me at mauricebukanya@gmail.com for full version

MAURICE BUKENYA

Tufts University, Medford MA, 02155 USA

XXX | mauricebukanya@gmail.com

EDUCATION

Tufts University - Medford, Massachusetts, USA Expected May 2018

- Master of Science in Chemical Engineering

Tufts University - Medford, Massachusetts, USA Sept 2013 - May 2017

- Bachelor of Science in Chemical and Biological Engineering
- XXXX

African Leadership Academy - Johannesburg, South Africa Sept 2010 – Jun 2012

- CIE Courses in Chemistry, Mathematics & Biology; Entrepreneurial Leadership & African Studies
- Awards: Winner of Life Sciences Olympiad in Southern Africa (2012)

ENGINEERING/ RESEARCH EXPERIENCE

Nanobiofabrication Laboratory – *Graduate Research Assistant, Tufts University* Medford, MA Nov 2015 – Present

- Fabricate and study opal-structured hydrogel films for potential application in bio-sensing and reagent-less detection
- Researched protein conjugation on PEG-Chitosan polymeric microparticles for biomedical applications (Undergraduate)

Chemistry Department – *Graduate Teaching Assistant, Tufts University* Medford, MA Sept 2017 – Present

- Instruct Chemistry laboratory course weekly
- Grade Laboratory reports, quizzes and tests

Koch Institute for Integrative Cancer Research at MIT – *Intern* Cambridge, MA Jul 2017 – Aug 2017

- Conducted ‘Seq-well’ for the purpose of single cell RNA sequencing
- Utilized Languages R and MatLab to cluster single cell data and to study impact of sequencing depth on RNA-Seq quality

National Institutes of Health (NIH) - *Engineering Intern* Bethesda, MD Jun 2016 – Aug 2016

- Utilized microfluidic techniques to encapsulate cells and beads in droplets (Drop-seq) using PDMS chips
- Conducted photolithography to make silicon wafer templates for device chips
- Enhanced efficiency of content-based fusion and sorting of droplets using dielectrophoresis
- Presented work to research group throughout the internship and to the wider NIH community on poster day

Tulow Oil – *Information Systems Intern* Kampala, Uganda Jun 2014 – Aug 2014

- Offered first-line IT support at the main offices in Kampala and in the major field sites
- Developed a requisition tool for printer supplies using Excel Visual Basic

LEADERSHIP EXPERIENCE

National Society of Black Engineers, Tufts Chapter – *Secretary and Mentor* Medford, MA Sept 2016 – Present

- Coordinated meetings, resources and opportunities for the 30-member group
- Guided and supported lowerclassmen through the club’s mentorship program

Tufts University – *Resident Advisor* Medford, MA Aug 2015 – Nov 2016

- Planned and implemented community building programs, and acted as a student resource for 47 residents

Global Health Corps – *Intern* Kampala, Uganda Mar 2013 – Aug 2013

- Developed and organized training and networking programs for Uganda-based professionals (fellows)

SKILLS

Laboratory: Mass Spectrometry, soft lithography, Spectroscopy (NMR & IR), Cell Culture

Computer/ Programming: Matlab, R, Python (learning), Simulink, Mathcad, VBA & MS Excel, Superpro Designer