

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

MAURICE BUKENYA

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xxxxx | 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 Engineering (xxxxx)
 - xxxxx
- African Leadership Academy** - Johannesburg, South Africa Sept 2010 – Jun 2012
- CIE Courses in Chemistry, Mathematics & Biology; Entrepreneurial Leadership & African Studies
 - xxxxx

ENGINEERING EXPERIENCE

- Nanobiofabrication Laboratory** – *Graduate Research Assistant, Tufts University* Medford, MA Nov 2015 – Present
- Fabricate opal-structured hydrogel films for application in biosensing and reagentless detection
 - Researched protein conjugation on PEG-Chitosan microparticles for biomedical applications (Undergraduate)
- Chemistry Department** – *Graduate Teaching Assistant, Tufts University* Medford, MA Sept 2017 – Present
- Instruct two Chemistry laboratory courses weekly
 - Grade Laboratory reports, quizzes and exams
- Koch Institute for Integrative Cancer Research at MIT** – *Intern* Cambridge, MA Jul 2017 – Aug 2017
- Conducted Seq-well, a single cell RNA sequencing process
 - Utilized Languages R and MatLab to cluster single cell data in order to study the 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 making 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 at the major field sites
 - Developed a requisition tool for printer supplies using Excel Visual Basic Applications

LEADERSHIP EXPERIENCE

- Biomedical and Chemical Engineering Society at Tufts** – *Secretary* Medford, MA Aug 2017 – Present
- Manage communication channels including email and social media platforms
- National Society of Black Engineers, Tufts Chapter** – *Secretary and Mentor* Medford, MA Sept 2016 – May 2017
- 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: Cell Culture, RNA-seq, Mass Spectrometry, soft lithography, Spectroscopy, SEM imaging
Computer/ Programing: Matlab, R, Simulink, Mathcad, MS Excel, SuperPro Designer