

**PROFILE**

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Current biological engineering graduate student at MIT. Looking to combine a broad set of analytical and strategic tools drawn from experiences in research and consulting to drive the advancement of our understanding of the process by which scientific innovation leads to new therapeutics and medical technologies. My current research is focused on discovering new knowledge that may lead to improvements in the efficacy/specificity of current therapeutics as well as the identification of novel drug candidates to alleviate the burden of disease using experimental and machine learning approaches.

**EDUCATION**

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**Massachusetts Institute of Technology (MIT)**, Cambridge, MA August 2019 – Present

*PhD Graduate Student in Biological Engineering*

*GPA: 4.7/5.0*

*Sloan Scholar, Alfred P. Sloan Foundation's Minority Ph.D. Program*

**Activities:** BE Graduate Board (Academic Chair), MSRP Application Reviewer

**Harvard University**, Cambridge, MA August 2012 – May 2016

*Bachelor of Arts cum laude in Biomedical Engineering*

*GPA: 3.7/4.0*

**Activities:** Biomedical Engineering Society, Students Against Malaria (Founder), House Committee, Undergraduate Council

**RESEARCH TRAINING**

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**Koch Institute of Integrative Cancer Research, MIT:** Cambridge, MA

Graduate Research Assistant, Laboratory of Dr. Angela N. Koehler

February 2020- Present

Project: Modulating transcription through small molecule inhibitors and degraders. Designed cell-based and biophysical assays to evaluate small molecule probes with the goal of elucidating their biological mechanism of action in the context of cancer.

**Broad Institute, MIT/Harvard:**

Cambridge, MA

Undergraduate Research Student, Laboratory of Dr. Angela N. Koehler

June 2012- January 2014

Project: Small molecules modulation of the c-Myc transcription factor. Carried out cellular and biophysical assays to evaluate the effect of small molecule compounds on the stability of c-Myc as well as Max-independent mechanisms in a Burkitt's Lymphoma cell line.

**Siemens Healthcare Diagnostics:**

Tarrytown, NY

Research & Development Intern

May 2014-August 2014

Project: Epitope mapping for diagnostics development. Planned and carried out immunological studies to optimize an HIV diagnostic product in preparation for regulatory approval and market launch in the Assay Development group

**The London School of Hygiene & Tropical Medicine:**

London, UK

Visiting Fellow (David Rockefeller International Grant), Group of Dr. Heidi Larson

May-August 2013

Project: Built a database to track and analyze more than 35,000 social media and news articles on vaccines from developing countries with the objective of identifying trends and factors contributing to confidence in vaccines

**PROFESSIONAL EXPERIENCE**

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**Deloitte Consulting:**

Boston, MA

Consultant | Strategy & Analytics

August 2016 – August 2019

Representative life sciences / biotech projects include:

## Mohammed Toure

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- *Oncology Landscape Strategy Development*: created competitive intelligence on key competitors with current and pipeline products in the immuno-oncology space, developed frameworks to help define the client's oncology business strategy for the next five years
- *Therapeutic Asset Search Strategy*: developed an analytical dashboard to evaluate key indicators of commercial viability, scientific compatibility of a select number of central nervous system (CNS) disease areas to enable the prioritization of growth opportunities in psychiatry and neurology
- *Patient Services Transformation*: interfaced with internal and external stakeholders to gather business requirements, generate analytical performance metrics, and develop reporting dashboards of patient's journey through a network of specialty pharmacies for better end-to-end visibility of the patient experience and improved adherence to treatment
- *Business Plan Development*: co-created workshop materials and conducted two strategy development workshops with client leadership team to identify strategic imperatives and choices regarding key segments to focus on and the approach to defending market share in four of their therapeutic areas

### **ADDITIONAL LEADERSHIP EXPERIENCE**

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#### **The MedTech Underground (MTU):**

Boston, MA

Founding Member / Recruitment Lead

June 2017-August 2019

- MTU is a grass-root organization of Deloitte practitioners with interests in the Medtech and Biotech industries to deliver pro-bono consulting services to pre-revenue start-ups. My efforts helped grow the organization from a team of 6 to more than 150 volunteers.

#### **The Ron Brown Scholars (RBS) Alumni Association:**

Treasurer of Executive Board

December 2015-January 2018

- RBS is a scholarship that competitively awards four-year \$40,000 scholarships to college-bound high school seniors of black/African American descent. Planned and co-lead the alumni association's inaugural strategic fundraising effort that raised more than \$80K in support of two four-year scholarships (up to \$10K per year), and continue to serve as mentor to younger scholars providing academic and career advice

#### **Students Against Malaria:**

President & Founder

April 2014-May 2016

- Conceptualized and steered the establishment of the organization by managing recruiting and relationships with sponsors. Generated and managed more than \$3000 in funding to launch the organization.

#### **MIT Summer Research Program (MSRP):**

Boston, MA

Pod Leader

June 2020-Present

- The MSRP program is a 9-week summer research experience for talented, underrepresented minority and underserved undergraduate students interested in pursuing doctoral education and who might benefit from engaging in a summer experience at MIT. The overall cohort size is approximately 40 students. As a Pod Leader, I manage a small pod of 8 students. I provide 1-on-1 guidance to students on aspects related to the PhD application process, review statements of objectives, and help monitor their research progress.

#### **MIT Biological Engineering Graduate Student Board:**

Boston, MA

Academic Chair

October 2019-Present

- Serve as a co-chair for academic related matters for the biological engineering graduate student board. Organize and lead activities designed to enhance the academic experience of graduate students in our department (e.g., informal group coffee chats with faculty, career panel discussions).

### **SCHOLARSHIPS / FELLOWSHIPS**

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The Alfred P. Sloan Foundation Graduate Fellowship (MPHD/UCEM)

2019

The Ron Brown Scholarship Program

2012-2016

The David Rockefeller International Experience Fellowship

2014