Melanie Quick

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EDUCATION

Boston University College of Engineering

September 2015 - May 2019

Bachelor of Science, Biomedical Engineering

GPA: 3.74/4.00

Academic Recognitions:

FIRST Robotics Research Scholarship

Dean's List (All Semesters), Dean's Host (3 Semesters)

Selected Coursework:

Natural Sciences

Systems Physiology, Biochemistry,

Organic Chemistry

Applied Sciences Molecular Bioengineering,

Biomaterials, Systems & Signals, Fluid Mechanics

Formal Sciences

Differential Equations, Probability, Linear Algebra, Data Structures

EXPERIENCE —

Research Assistant June 2018 - Current

Boston University Design, Manufacuring, Automation, and Prototyping (DAMP) Lab NSF Living Computing Project Award Recipient

- Researched sequential logic genetic circuits, automated assembly of recombinase-based state machines, and the efficacy of standardized synthetic biology protocols
- Wrote automated data collection script and liquid handling robot protocols
- Participated in synthetic biology outreach as part of the STEM Pathways program
- Competency in design and execution of advanced synthetic biology protocols

Research Assistant & Scribe

March 2018 - Current

Boston Children's Department of Gatroenterology

- Scribe in pediatric gastroenterology clinic 4 hours per week
- Synthesize nutrition and medication data in patients with recently diagnosed Celiac Disease
- Competency with data analysis in R

Technology Innovation Scholars Program Ambassador

September 2017 - Current

Boston University College of Engineering

- Mentor FIRST robotics teams
- Provide opportunities to engage young people, particularly women, in STEM

Research Assistant

June 2017 - August 2017

Mayo Clinic Department of Otorhinolaryngology - Head & Neck Surgery

- Researched swallowing and speech outcomes of patients receiving primary surgery via transoral robotic surgery (TORS)
- Conducted comprehensive PRISMA systematic literature review
- Wrote Visual Basic software to expedite data retrieval and organization

Presentation

Combined Otolyarnology Spring Meetings (April 2018), Poster Presentation

- SKILLS -

Programming Languages: Python, Java, CSS, HTML, MATLAB, Visual Basic, R. Experience In: LabView, LaTeX, Ruby on Rails, Javascript

Laboratory: PCR Optimization, Golden Gate Cloning, Gibson Cloning, Primer Design

CAD Programs: CREO Parametric, SolidWorks

Other: REDCap, Microsoft Office, Photoshop, Spanish & French (Intermediate)