Melanie Quick

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Boston, MA / Minneapolis, MN

EDUCATION

Boston University College of Engineering *September 2015 - May 2019*
Bachelor of Science, Biomedical Engineering
GPA: 3.75/4.00

Academic Recognitions:
FIRST Robotics Research Scholarship
Dean's List (All Semesters), Dean's Host (4 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, Manufacturing, Automation, and Prototyping (DAMP) Lab
NSF Living Computing Project Award Recipient

- Research automated assembly of recombinase-based state machines
- Wrote automated data collection script and liquid handling robot protocols
- Participated in synthetic biology outreach (STEM Pathways program)

Presentation

- International Workshop on Bio-Manufacturing Automation (October 2018), Poster Presentation

Medical Scribe *March 2018 - Current*

Boston Children's Department of Gastroenterology

- Shadow pediatric gastroenterologist weekly in the Inflammatory Bowel Disease (IBD) Center
- Accurately document patient history, symptoms, recent labs and diagnostics, and physical examination

Technology Innovation Scholars Program Ambassador *September 2017 - Current*

Boston University College of Engineering

- Mentored Boston University Academy FIRST Robotics team
- Participate in outreach at Boston area high schools to engage teenagers in STEM
- Organized "Females in STEM" outreach event at BU Academy (Fall 2018)

Research Assistant *June - August 2017*

Mayo Clinic Department of Otorhinolaryngology - Head & Neck Surgery

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

Presentation

- Combined Otolaryngology Spring Meetings (April 2018), Poster Presentation

SKILLS

Programming Languages: Python, Java, C++, MATLAB, CSS, HTML, LaTeX, R

Laboratory: *Techniques:* Golden Gate Assembly, bacterial transformation, cell culturing. *Technology:* LIMS systems (Aquarium), OT-2 (Opentrons)

CAD Programs: CREO Parametric, SolidWorks

Other: Adobe Creative Cloud (Illustrator, Photoshop, InDesign), Spanish & French (Intermediate)