

Education

Dartmouth College

B.A.in Biology

Hanover, NH

Expected Graduation: 2022

Research Experience

Lab Assistant

October 2018 – June 2019

Higgs Lab, Geisel School of Medicine at Dartmouth College

Hanover, NH

- Analyzed intracellular membrane tubes in pancreatic cancer cells.
- Used the Andor Spinning Disk, Airyscan, and DIC Microscopes to image stained cells and used ImageJ for quantification.
- Presented my research at the 2019 Wetterhahn Science Symposium.

Research Assistant

February 2017 - August 2018

Benson Lab, Icahn School of Medicine at Mt. Sinai

New York City, United States

- Assessed abnormalities in synaptic fractions in relation to Autism Spectrum Disorder.
- Used confocal microscopy to image stained cells and Metamorph and ImageJ for analysis.
- Presented my project at the NYC Science and Engineering Fair and was awarded 4th Place in the 2018 Annual STEP Competition (Senior Division).

CEYE Research Scholar, President

June 2016 - August 2018

Center for Excellence in Youth Education, Icahn School of Medicine at Mt. Sinai

New York City, United States

- Selected for a two-year biomedical research program cultivating lab skills in DNA technology.
- Served as President of my class, acting as a liaison between my peers and the administration.
- Helped guide middle school students through heart, brain, and kidney dissections.
- Volunteered at the Annual Mount Sinai Brain Awareness Fair. Participated in the Annual March for Science and 2018 Climate March.

Extracurricular Activities

Volunteer, Junior Facilitator

September 2018 - Present

Sexual Assault Peer Allies, Movement Against Violence, Dartmouth College

Hanover, NH

- Trained to serve as a resource for students who have experienced sexual assault or intimate partner violence.
- Facilitate discussions about sexual violence in Greek houses and gender inclusive communities.

Volunteer

September 2018 - Present

Growing Change, Dartmouth College

Hanover, NH

- Work in classrooms to teach youth about food systems and healthy eating.
- Connect with the vibrant local agricultural community to build on strong farm-to-school networks.

Executive Committee Member

September 2018 - Present

Nathan Smith Pre-Health Society, Dartmouth College

Hanover, NH

- Responsible for planning and executing programs that assist pre-medical students with science courses, explore ethical issues in medicine, and organize shadowing opportunities.

Pathways Scholar

September 2018 - Present

Health Professions Program, Dartmouth College

Hanover, NH

- Gain greater depth of knowledge, inspiration, and tools to understand and tackle social determinants and equity in health care through exposure to expert facilitators and robust discussions.
- Learn about innovative approaches for providing critical care to the most vulnerable in our society. Develop ethical understanding, mindfulness and compassion for a future in a health career.

Great Issues Scholar & Mentor

September 2018 - Present

John Sloan Dickey Center, Dartmouth College

Hanover, NH

- Participated in a year-long series of interactive events aimed at enhancing one’s understanding of current international events related to development, global health, and climate change throughout freshman year.

Awards

- Citation for Meritorious Performance in German, Dartmouth College (2019)
- AATG National German Exam, Gold Certificate (2016, 2017, 2018)
- Questbridge College Prep Scholar, New Americans Award (2017)
- Questbridge National College Match Scholarship (2018)

Skills

- Languages: Bengali, German
- Computer: InDesign, Autodesk Inventor, Revit, Fusion 360
- Research: Tissue Staining for Histology, Confocal Microscopy, ImageJ/FIJI for Analysis