

Vio Ta

Medford/Somerville, MA

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EDUCATION

Tufts University, Medford, MA

Expected May 2026

Bachelor of Science in Biomedical Engineering; Minor in Biotechnology

GPA: 3.37, Dean's List

- **Relevant Coursework:** Organic Chemistry, Biochemistry, Engineering Design Process, Biomechanics, Modern Optics & Photonics, and Biomedical Concepts (at the Cellular, Tissue, & Organ levels)

EXPERIENCE

Xu Lab

Tufts University, Medford, MA

Undergraduate Research Assistant

May 2024 – Present

- Fabricate lipid nanoparticles (LNPs) for mRNA drug delivery to develop therapies for organ-specific diseases.
- Research the role of protein corona formation on biodistribution and selective organ targeting of LNPs.
- Aid postdoctoral scholars and graduate researchers with experimental design, sample preparation, and data collection for 5+ research projects to increase weekly productivity and output.
- Maintain a professional laboratory notebook for efficient data collection, sample tracking, and calculations.

Ragon Institute of Mass General, MIT, & Harvard – Gaiha Lab

Cambridge & Brockton, MA

Remote Summer Research Intern

July 2021 – Aug 2021

- Analyzed 200+ COVID-19 B-cell and T-cell immune response data samples from the Chelsea & Greater Boston area using R programming to evaluate the effect of COVID-19 vaccines on innate immune responses.
- Presented visualized data and project conclusions to principal investigators in a virtual poster session.
- Explored higher-level concepts of immunology through a concurrent weekly lecture series.

Massachusetts Life Science Center Apprenticeship

Brockton High School, Brockton, MA

Apprentice

Feb 2021 – May 2021

- Cloned and purified Luciferase protein using cell processing and recombinant DNA techniques.

LEADERSHIP

Tufts Biomedical Engineering Society (BMES)

Medford, MA

Research Chair

Sept 2024 – Present

- Assist 10+ freshmen and sophomores with securing research experience in BME department labs.
- Host presentations and networking events with professors, graduate workers, and postdoctoral scholars related to undergraduate and graduate-level BME research, with over 30+ attendees.
- Design an accessible resource database for biomedical/chemical engineering research and conference grant information for underprivileged students with the Center for STEM Diversity.

Tufts Dept. of Theatre, Dance, & Performance Studies (TPDS) Scene Shop

Medford, MA

Student Asst. Technical Director, Work Study Carpenter & Scenic Painter

Jan 2022 – Present

- Collaborate with scenic designers from the university department and student theatre organizations to construct and/or paint 9+ play and musical sets following the designer's artistic vision.
- Organize and wash paints, brushes, and tools in the work environment to streamline workflow leading up to production week and preserve the longevity of shop materials.

Tufts Vietnamese Students Club (VSC)

Medford, MA

External Outreach Chair

Aug 2023 – May 2024

- Planned 3+ cultural events, including a coffee shop event and an annual culture show with 200+ attendees each.
- Communicated with 5 Greater Boston Vietnamese student organizations to plan a social event with 70+ attendees.

SKILLS

- **Technical:** Microsoft Office, MATLAB, Python, R, AutoCAD, SolidWorks, woodwork, carpentry
- **Laboratory:** Cell culture, Plasmid construction, Molecular biology, PCR, *In vitro* transcription, *In vivo* rodent work (handling, tail-vein & IP injections, organ dissection, blood collection), BSL2 & Animal BSL1 safety