

Benjamin Semegran

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EDUCATION

Tufts University, Medford, MA

Candidate for Bachelor of Science in Biology and Bachelor of Arts in History.

Expected May 2023

GPA: 3.97

Mahopac High School, Mahopac, NY June 2019

WORK EXPERIENCE

Levin Laboratory, Tufts University, Medford, MA

Laboratory Assistant and Paper Author, Nov 2019 - Present

- Served as a major part of the computational work for the anthrobots project, a follow-up to the xenobots project for the Levin Lab.
- The computational work largely covered the tracking, modeling and categorizing of very large volumes of data representing hundreds of individual bots.
- There was some work in the wet lab pertaining to imaging, processing, analysis and handling techniques for the bots as they traversed scratches in neuron plates.
- The finished paper is accessible through this link:
<https://www.biorxiv.org/content/10.1101/2022.08.04.502707v1.full>

Brewster Ambulance Company, Tufts University, Medford, MA

Covid and Flu Support, Oct 2021 - Present

- Carried out Covid-19 testing and Flu Vaccine clinics for the students of Tufts University.
- Maintained the sterility and integrity of the testing locations and vaccine clinics.
- Emphasis was placed on the satisfaction and confidentiality of each individual patient.

History Department Work-Study, Tufts University, Medford, MA

Front Desk Receptionist, Sept 2021 - Present

- Connected with students, teachers and staff of the Tufts history department to help with their requests for their classes and served as an office assistant.

Dana-Farber Cancer Institute, Boston, MA

Merkel Cell Lab Summer Research Assistant, June - August 2022

- Carried out computational work for a study into the use and effectiveness of liquid tumor DNA in the diagnosis of Merkel cell carcinoma.
- Collected and organized Merkel cell carcinoma patient data from the Dana Farber EPIC database.
- Was a part of research and clinical meetings that discussed patient data, diagnosis and care.

LEADERSHIP

Tufts Gaming Hub, Tufts University, Medford, MA

Competitive Hearthstone Officer and Coach, September 2021 - Present

- Coordinated outreach, funding, recruitment and events for the Tufts Gaming Hub for over 900 members with my focus centered around the popular online card game Hearthstone.
- Hosted biweekly meetings for competitive Hearthstone matches versus the best teams in collegiate Hearthstone esports and provided daily metagame data reports for my players.
- Was one of the most successful competitive esports teams in Tufts history reaching the semifinals within our first season and at multiple points in that season representing the highest-ranked Hearthstone team in the collegiate competitive scene.

SKILLS & INTERESTS

Computer: RStudio, TrackR, REDCap, EPIC patient database, Zen Microscopy, Adobe Creative Suite, Microsoft Office Suite

Lab: trained in cell culture specifically selecting and moving individual subjects between plates as well as fixating, imaging and computational analysis of these subjects.

Interests: Reading, Video Games, Travel, Film and Cooking.