

Justin Vega | thejustinvega.com | vega.ju@northeastern.edu | Cell: 516-492-2858

Education

Northeastern University

Boston, MA

Candidate for B.S. in Physics and Philosophy

Expected Graduation: May 2023

Honors: Dean's List, Karen T. Riggs Shining Torch Scholarship, GPA 3.6/4.0

Relevant Coursework: Electronics, Electricity & Magnetism, Advanced Physics Lab, Quantum Mechanics

Relevant Experience

Northeastern Physics Department

Boston, MA

Undergraduate Teaching Fellow

Jan 2020 – Present

- Serves as a lab assistant for two sections of Physics 2
- Prepares lab equipment and guides students through physics experiments

National Society of Physics Students

Sep 2018 – Present

- Attends research talks and colloquiums hosted by professors and students at Northeastern
- Serves as a mentor to 1st year students, helping them transition to university classes and lifestyle

Brookhaven National Laboratory

Upton, NY

Nuclear Physics Research Intern

Jul 2017– Dec 2017

- Completed the first ever systematic survey of angular distribution data for the United States' National Nuclear Data Center's Evaluated Nuclear Data File database
- Wrote Python, UNIX, and HTML scripts to generate and display thousands of plots for the neutron sub-library of the ENDF Nuclear Data Library
- Co-authored an official BNL report on angular distributions of 427 different isotopes

Skills

Lab: Electrical (Multimeter, Breadboard, Soldering, Oscilloscope), Spectrometer, Lasers, Logic Gates

Proficient: Python, HTML, CSS, LaTeX, UNIX, Adobe (Premiere, Lightroom, Photoshop), Ableton Live

Familiar knowledge: MATLAB, Linux, JavaScript, Java, PHP, Adobe Illustrator, Pro Tools

Additional Experience

Northeastern Information Technology Services

Boston, MA

ITS Student Communications Assistant

Jan 2019 – April 2019

- Directed, filmed, and edited a commercial for PAWS Skill for Northeastern's student body
- Photographed headshots of Northeastern ITS Staff and delivered high-quality edited photos using Adobe Creative Suite
- Formatted and wrote articles using WordPress about ITS events for a newsletter distributed to 30,000+ students and faculty members

The Downbeats

Sep 2018 – Present

Music Director

- Plans, arranges, rehearses, and performs a cappella repertoire with Northeastern's Downbeats (16 students)
- Shapes the overall sound of the group and executes artistic vision of arrangements in rehearsals

Interests

Astrophysics • Astrophotography • Songwriting • Composition • Music Production • Philosophy