

Daniel Ben-Levi

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Ambitious high school senior with interdisciplinary interests in linguistics, computational linguistics, philosophy, education, entrepreneurship, and social justice.

Education

Newton South High School – Class of 2023

GPA: 4.0/4.0 **ACT:** 35

AP COURSES COMPLETED (Score): Chemistry (5), US History (5)

AP COURSES IN PROGRESS: Calculus BC, Language, French, Psychology, Physics C: Mechanics, Physics C: Electricity and Magnetism

Extra-curricular courses: 33rd European Summer School in Language, Logic, and Information (2022), ACLU National Advocacy Institute (2022), Martial Arts Lessons (2011 - Present), InspiritAI Scholars (2021), Boston Leadership Institute Engineering Research (2021), iDTech Advanced Python Coding with ML & Cryptography (2021), iDTech Coding Apps with Java (2021), BWSI Yes! You Can Program Autonomous Cars (2021), iDTech Python Coding: Arcade Games and AI (2021), Guitar Lessons and Performances (2011 - 2021), Ice Hockey (2013-2020)

Research Experience

University of Massachusetts Amherst, Linguistics Department (Started January, 2022; 12 hours/week, 34 weeks)

- Worked as a research assistant to Professor Micheal Becker, a renowned phonologist.
- Completed a project investigating the pronunciation of 19th century French poems.
 - Performed analysis on statistics of poets' meters and tendencies to generate constraints
 - Wrote an analysis program that used poetic constraints to mark the most probable intended reading
 - Performed analysis comparing the works of poets
 - Wrote a large portion of the project's final paper

Independent Linguistics Research (Started October 2021, 10 hours/week, 21 weeks)

- Literature review discussing the effects of the universal grammar theory on the social sciences
- Project on the best way to draw syntax trees, involved carrying out a study at my high school
- Project on the effects of tone and stress on meaning
- Project on the origins of semantic differentiation

Leadership Experience

English Haven (Started November, 2021; 8 hours/week, 36 weeks)

- Founder and President
 - ELL non-profit that promotes equality in education and opportunity for refugee children
 - Assisted 45 families in their resettlement process by providing an ESL curriculum to their tutors

LigerBots, FRC 2877 (Started September 2021; 12 hours/week, 52 weeks)

- Chief Marketing Officer (11th grade)
 - Led outreach (22 events), fundraising (\$17,000), publicity, meeting planning, and training for team of 92.
 - Qualified for the World Championship (logistics prevented attendance)
 - Entrepreneurship Award, Engineering Inspiration Award, Gracious Professionalism Award
- Patent Lead (10th grade)
 - Led the writing of a provisional patent: non-auditory communication in team sports
 - Self-taught legal writing received high praise from a patent lawyer

Challenges in Computational Linguistics (Started October 2021; 1.5 hours/week, 16 weeks)

- Founder and President
 - Students solve puzzles, interpret algorithms, and research areas of compLing that interest them.
 - Constructed NLP algorithm that taught a NN how to conjugate verbs
 - Solved NACLO (North American Computational Linguistics Olympiad) puzzles.

Teaching Experience

Kids Kicking Cancer (Started June 2020; 1 hours/week, 52 weeks)

- National non-profit organization that offers martial arts therapy to kids.
- Our focus is on pain and stress management for pediatric patients, as well as creating resilience and support for otherwise healthy children.
- Backed by research, our non-contact martial arts therapeutic program gives kids the tools to self-regulate when they encounter stress or are experiencing a pain crisis.

Esposito's Academy of Self-Defense (Started March 2020, 8.5 hours/week, 52 weeks)

- Program focuses on development of life skills in pursuit of martial arts excellence.
- Teach students the value of respect, self-discipline, goal setting, positive attitude, and fitness.
- Led teams of instructors in teaching groups of up to fourteen students.