

ERIC G. BARDON

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EDUCATION

BROOKLINE HIGH SCHOOL

Expected June 2026

GPA: 4.00/4.00 - Current classes: Linear Algebra*, AP Chemistry*, AP Biology*, AP US Government*, AP Spanish*, Honors English* (* = Highest Level)

Exam Results: 36 on ACT; 5s on AP BC Calculus, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism, AP US History, AP Computer Science A: Java

WORK EXPERIENCE

Mootha Lab - Broad Institute/Massachusetts General Hospital

Boston, MA

Research Intern with Prof. Vamsi Mootha

June 2024 - Present

- Conducted computational research on mitochondrial proteomes of eight species part of the mitochondria tree of life project (MitoTOL), including five parasitic organisms that infect hundreds of millions globally.
- Discovered potential function of uncharacterized proteins including assignment of potential pathways through development of statistical pathway mapping program. Used orthology and advanced statistical and homology methods including AlphaFold, CLIME, BLAST, and Foldseek. Presented findings and research efforts in lab meetings.
- Co-author on research paper submitted to *Cell*: "Comparative mitochondrial proteomics across the tree of life reveals evolutionary, functional, and therapeutic insights." Second paper regarding underlying methodologies in pipeline.

Language Virtual

Brookline, MA

Vice President & Fundraising Board Member

Nov 2023 - Present

- Student-run 501(c)3 nonprofit based in the Boston area with 200+ staff volunteers and 800+ students offering 1 on 1 English lessons including in Ukraine, Nicaragua, Korea, and Thailand.
- Work in the administrative team to keep the program running smoothly with the extensive number of students and teacher and lead the fundraising initiative with local and social events to generate the proper resources.

The Country Club

Chestnut Hill, MA

Banquet Server

Dec 2024 - Present

Congressman Jake Auchincloss Congressional Campaign (MA-4)

MA 4th Congressional District

Campaign fellow for Rep. Jake Auchincloss of the 4th Congressional district.

Feb 2024 - Oct 2024

- Wrote a policy brief on MBTA Communities Act to analyze the effects of legislation on 4th Congressional District towns.
- Spoke with voters on policy decisions, volunteered at a district caucus, and collected signatures door to door.

Boston University Summer Lab

Boston, MA

Student & Scholar with the BU Summer Lab Program

July 2023 - May 2024

- Worked with biotechnology in lab experiments learning about, plasmids, and GFP tagging, bacterial gene transformation. Focus on CRISPR-Cas9 to understand gene editing in an experiment with the lacZ gene in *E. coli*.

ACTIVITIES

Brookline High School Government

Brookline, MA

Chair of the Brookline High School Legislature, Chair of Student Council

Sep 2022 - Present

- Lead policy discussions and set agendas for the student-faculty legislature that governs school rules. Passed the Tackling Injustice Bill to ensure transparency and accountability in the administration's handling of discrimination and harassment.
- Represent student concerns and speak on their behalf in the Legislature as Chair of the Student Council, a sub-body focused on student issues. Lead Student Council's distribution of \$8,000+ to help school clubs.

Brookline High School Cross Country / Track

Brookline, MA

Captain, Varsity Cross Country & Track – MIAA D1 XC Team State Champions (2024, 2025)

Sep 2022 - Present

SKILLS AND INTERESTS

Skills: Coding in Java (AP Computer Science A), Coding in R

Language: English (Native), Spanish (Working Proficiency)

Personal Interests: Playing Tennis, Running, Double Black Skiing, Baking, Woodworking