

Alexa Barbosa

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EDUCATION

Brown University, Providence, Rhode Island, Class of 2028

- Presidential Scholars Program- 2028 Scholar
- Major: Biochemistry & Molecular Biology Sc.B., Pre-Med Track

Howell High School, Farmingdale, New Jersey, Class of 2024

- GPA (weighted): 5.3852
- AP Scores: 5's- AP Physics 1, AP Physics 2, AP US History, AP Computer Science A, AP Calculus AB, 4's- AP Biology, AP Chemistry

RESEARCH

Brown University Valdez Lab, Cell & Molecular Biology | Undergraduate Student Researcher December 2024-Present

- Currently researching the role of APOE expression in motor neurons in the spinal cord and microglial response during stress-related conditions, such as aging, injury, and Alzheimer's Disease
- Trained in PCR, mice perfusions, spinal cord dissections, tissue sectioning, IHC, image analysis of microglia and motor neuron interactions in the lumbar region of the spinal cord

EXTRACURRICULAR

Brown University Students For Life | Member

November 2024 - Present

- Attend conferences and galas hosted to raise charity for various organizations that support women in need
- Volunteer at charity events that raise awareness for the Pro-Life cause

New Jersey Governor's School in the Sciences | Scholar

2023 July 16 - 2023 August 4

- Selected through an intense application process of 271 applicants. (60 applicants accepted)
- Took rigorous courses in Neuroscience, Medicinal Chemistry, Biology of Cancer, Quantum Computing
- Participated in Team Research and developed a scientific article with 11 other scholars

Howell Girls Cross Country/Track & Field | Athlete & Women's Captain

February 2021-June 2024

- Ten hours of practice each week; balancing academic workload and training after school throughout the year
- Races once a week after school or on Saturdays
- Organized daily practices every morning over the summer and led weekly workouts for the women's team with two other captains each week; mentored new runners before and during the season

VOLUNTEER

Rhode Island Hospital | Volunteer

August 2025-Present

- Guide patients to their respective departments as part of 'Greeting Hours' as a volunteer each week

Current Hours: 16

Strive2ThriveEdu International Tutoring Organization | Tutor & Project Coordinator

December 2020-June 2024

- International, non profit organization whose tutors teach various subject matters to underprivileged students around the world
- Tutoring over zoom calls once a week for an hour and a half, improving efficiency for other international tutors
- Taught Precalculus, Algebra, Geometry, Basic Science, and Intermediate English

National Honors Society | Member

January 2023-June 2024

- Served 20+ hours of community service each semester

*Total Hours: 151***WORK EXPERIENCE****Brown University Community Coordinator | On-Campus Employee**

August 2025 - Present

- Work 20 hours per week as a Resident Assistant (RA) in my resident dorm building

LEADERSHIP**Brown RISD Catholic Community | FOCUS Bible Study Leader**

August 2025-Present

- Leader of a Freshman Bible Study of six female students
- Meet weekly in prayer and fellowship, and guide discussions over various content in the Bible

Student Council | President

September 2023-June 2024

- Elected by the student body to serve as Student Council President in 12th grade
- Organize and coordinate school events to increase school spirit, welcome incoming freshmen, and celebrate the Senior Class

Student Government | Class President

September 2020-June 2023

- Have held the position of Class President 9th,10th, and 11th grade
- Participate in monthly meetings with the principal to discuss the school atmosphere and ways to improve student and academic success
- Excellent practice of time management and organizational skills with balancing academic achievement and leadership responsibilities

Superintendent Executive Student Cabinet | Member

June 2023-June 2024

- Chosen through a selective process to represent Howell High School as one of six members of the superintendent's cabinet throughout the district
- Participate in monthly meetings with the executive board at the Superintendent's office, discussing school improvements and collaborating with other board members
- Practice in working through community problems and taking initiative to solve them