

# Alexa Barbosa

732.770.2979 | [barbosaalexa1020@gmail.com](mailto:barbosaalexa1020@gmail.com) | 3 Chelsea Court Howell, NJ, 07731

## EDUCATION

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### **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

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### **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

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### **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

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### **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**

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**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**

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**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