

# Darsh Patel

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## Education

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<b>Hofstra University</b>   Long Island, NY  <i>Bachelor of Science in Biology (Pre-Health Scholar's Program)</i> Honors: Hofstra University Honors College, Dean's List Scholarships: Presidential Scholarship	Class of 2024 Cumulative GPA: 3.77
<b>The Bronx High School of Science</b>   Bronx, NY	Cumulative GPA: 93.19

## Experience

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<b>Westbury Family Dentists</b>   Dental Assistant	June 2023 - May 2025
<ul style="list-style-type: none"><li>• Prepared patients for dental procedures and created a comfortable atmosphere for them.</li><li>• Performed intraoral X-rays according to guidelines and assisted in a range of dental procedures.</li><li>• Documented patients' dental history and recorded treatment procedures.</li></ul>	
<b>SANT News</b>   Assistant Manager	February 2021 - Present
<ul style="list-style-type: none"><li>• Handled customer transactions in the POS system and managed inventory to fulfill retail obligations.</li><li>• Maintained high-level product knowledge and implemented it to offer exceptional customer assistance. Increased customer satisfaction by 15%.</li><li>• Established and maintained professional customer relationships.</li></ul>	
<b>Wolverines U</b>   Director of Mathematics Department	September 2021 - Present
<ul style="list-style-type: none"><li>• Wolverines U is a non-profit organization composed of 16 undergraduate students that offers K-12 students in New York City free enrichment education.</li><li>• Founded the Algebra I curriculum centered on concepts of the New York State Regents Examination to support the education of students.</li></ul>	
<b>Glen Oaks Volunteer Ambulance Corporation</b>   Member	November 2022 - January 2023 January 2018 - March 2020
<ul style="list-style-type: none"><li>• Trained to obtain the necessary Emergency Medical Technician skill(s) and implemented them in artificial scenarios.</li><li>• Volunteered to provide assistance at special community events and promote community involvement and safety.</li><li>• Trained other youth squad members in first aid and Emergency Medical Services.</li></ul>	
<b>All Hands On Physical Therapy</b>   Extern	August 2020 - September 2020
<ul style="list-style-type: none"><li>• Shadowed Dr. Be and Dr. Patel to gain first-hand clinical experience in Physical Medicine &amp; Rehabilitation.</li><li>• Learned to implement electrical stimulation, hot and cold therapy, ultrasound therapy, and EMG/NCV testing.</li><li>• Memorized personalized recuperation programs for patients and helped record patient progress.</li></ul>	

## Research

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### Hofstra Sustainability

October 2022 - December 2022

- Led the research study that analyzed Hofstra University's to promote sustainability and methods of implementation.
- Presented the research to architects that are in sustainable architecture. Implemented their suggestions to improve the research study.
- Presented at the Undergraduate Research Fair to be reviewed by peers and other professors.

### Epidemiologic Trend in the United States

October 2022 - Present

- Obtained data on firearm homicide in the United States from 1999-2020 from the Centers for Disease Control and Prevention Online Data
- Conducted statistical analysis to understand the epidemiological trend and will be submitted to the Annals of Epidemiology

### Cellular Biology in Yeast, Exocytosis

August 2023 - Present

- Conducting research on yeast to understand polarized exocytosis and the exocyst complex.
- Findings displayed that Sec10-R441 mutations can rescue the Sec1-1 phenotype but not the loss of function in Sec2 or Cdc42, indicating that the exocyst's role in Sec1 activity is independent of Rab or Rho activation.

### Transposon Mutagenesis in Maize

January 2024 - May 2024

- Conducted research on transposon-induced mutagenesis via Ac/Ds insertions in maize, focusing on the gene Zm00001eb045670 involved in carbohydrate transport and Golgi apparatus function.
- Findings demonstrated reduced gene expression with Ac transposons, underscoring the role of mutagenesis in maize functional genomics and resilience to stress.

## Extracurricular Activities

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### Pre-Dental Student Association | Secretary

September 2021 - Present

- Engaged with professionals in the healthcare field.
- Volunteered to create a positive impact on society.

### Men's Ultimate Frisbee Club | Member

September 2021 - Present

- Attend practice to train and improve on personal and team-building skills
- Compete with other East Division I Metro teams in tournaments

## SKILLS

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**Certifications:** Certified Emergency Medical Technician, CPR Certified, Mental Health First Aid

**Language:** English, Gujarati (conversational), Hindi (conversational), Spanish (conversational)

**Computer:** SPSS, Google Drive, Microsoft Office