

GRAYDON NOLEN

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EDUCATION

Yale University, New Haven, CT

Aug 2024 - May 2028

BS in Molecular Biochemistry and Biophysics

Awards: Yale College First-Year Summer Research Fellowship in the Sciences & Engineering

Saint Ann's School, Brooklyn, NY

Jul 2024

WORK EXPERIENCE

Batista Lab, *Undergraduate Research Assistant*, New Haven, CT

Jan 2025 – Present

- Undergraduate researcher advised by Professor Victor S. Batista and Tianyin Qiu to study force-induced conformational changes in the mechanosensory protein Talin-1 using molecular dynamics simulations and custom scripting tools.
- Prepared molecular systems, developed steered molecular dynamics protocols, and automated vector analysis and backbone constraints using Tcl scripting and VMD. Investigated protein mechanics and structure preservation under load, with applications in understanding cellular mechanotransduction.

Cape Cod Healthcare, Hyannis, MA

Jun 2023 – Jul 2024

Patient Access Representative (Two terms: Jun 2023 – Aug 2023, Jun 2024 – Jul 2024)

- Collected patient insurance, demographic information, and processed copays in the ER as part of a team of 6 representatives at patients' bedsides.

Great Island Homeowners Association, *Maintenance Staff*, West Yarmouth, MA

July 2022 – Aug 2022

- Maintained a restaurant 6 days a week that served 70 – 120 people daily.
- Maintained and cleaned a golf driving range daily.

LEADERSHIP EXPERIENCE

Yale Concert Band, *Cornet 2*, New Haven, CT

Aug 2024 – Present

- Cornet 2 of 6 trumpets in the Yale Concert Band, Yale's premier wind ensemble. A group of 45-60 players that plays a broad variety of wind band music including traditional and experimental, contemporary music. The Yale Concert Band works with student, faculty, and established world-class composers. It also works with a variety of soloists. The band often regularly performs tours and benefit concerts worldwide.

Davenport Pops, *Trumpet 2*, New Haven, CT

Aug 2024 – Present

- Trumpet 2 of 8 Trumpets in the Davenport Pops Orchestra (DPops). A student led orchestra that performs 4 times a year with a large variety of music from pop artists like Rihanna to classical music like 1812 by Tchaikovsky.

SKILLS AND INTERESTS

- *Licenses and Certifications:* NREMT Certification (6607-4458-9300), MA B-EMT License, BLS Certification
- *Computer Skills:* Python (intermediate), Tcl (basic), Bash (intermediate), Epic Systems (intermediate)
- *Language Skills:* English (fluent), Spanish (conversational)
- *Interests:* Medicine, Biochemistry, and Public Health.