

***Deven Huang***

Student, New York University College of Arts and Science

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<b>College GPA:</b>	3.981	<b>Major GPA:</b>	4.000

**School Experience:**

<b>New York University.</b> New York, NY Bachelor of Arts in Biochemistry - Minors in Mathematics and Business Studies	09/2023 – 05/2027
<b>Choate Rosemary Hall.</b> Wallingford, CT High School Diploma - SAT: 1590; Overall GPA: 4.043	09/2019 – 05/2023
<b>Amity Middle School Bethany.</b> Bethany, CT	08/2017 – 06/2019

**Quantitative Courses at NYU:**

**Grade:**

Organic Chemistry II & Laboratory; January 2025—May 2025	“A”
General Physics II & Laboratory; January 2025—May 2025	“A”
Linear Algebra; January 2025—May 2025	“A”
Organic Chemistry I & Laboratory; September 2024—December 2024	“A”
General Physics I & Laboratory; September 2024—December 2024	“A”
Calculus III; September 2024—December 2024	“A”
General Chemistry & Laboratory II; September 2023—December 2023	“A”
Principles of Biology II; January 2024—May 2024	“A”
Principles of Biology Laboratory; January 2024—May 2024	“A”
General Chemistry & Laboratory I; September 2023—December 2023	“A”
Principles of Biology I; January 2024—May 2024	“A”

**Quantitative Courses at Choate:**

Honors Algebra II; September 2019—June 2020

Honors Physics; September 2019—June 2020

Honors Precalculus; September 2020—May 2021

Honors Chemistry; September 2020—May 2021

Calculus BC; September 2021—May 2022

Honors Physics with Calculus; September 2021—May 2022

Linear Algebra; September 2022—November 2022

Honors Biology; September 2022—May 2023

Multivariable Calculus; November 2022—May 2023

### **Special Academic Programs:**

#### **NYU CAS Presidential Honors Scholars Program; 2023-Present**

Membership to the CAS Presidential Honors Program is offered to the top 10% of admitted freshman each academic year. Scholars are required to take the honors track of their major, perform independent research, study abroad, perform community service and take advantage of New York City's cultural resources. Scholars meet regularly for lectures and discussions and participate in a wide variety of cocurricular activities. Examples of these include the Scholars Lecture Series, cultural events in the city, social events, and community service projects. Scholars are required to maintain a GPA of at least 3.65

#### **Science Research Program, Choate Rosemary Hall; 2021-2022**

The Science Research Program (SRP) is a selective fifteen-month course offered to motivated students interested in the sciences. The first portion of the program helps students prepare for research in university laboratories during the summer before their senior year. Students are accepted to the program based on both an extensive written application and an interview with the program coordinators, based as much on maturity, motivation, and commitment to independent work as on the strength of one's record in science. For the past fifteen years, the Choate Science Research Program has successfully matched students with mentors in laboratories at the most prestigious universities in the country.

### **Work Experience:**

<b>Union Square Eye Care</b> , New York, NY <i>Ophthalmic Technician</i>	6/2025-Present
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<b>Stern Business Analytics Club</b> , New York, NY <i>Quantitative Finance Team Member</i>	2/2025-Present
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<b>Marcus Weck Lab</b> , New York, NY <i>Research Assistant</i>	2/2025-Present
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<b>NYU College of Arts and Science</b> , New York, NY <i>College Leader</i>	4/2024-Present
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College Leaders are an essential part of the First-Year experience at NYU CAS, serving as role models, mentors and sources of support for incoming first-years. Through weekly meetings, I mentor a cohort of 35 first year students, educating them about NYU resources, campus events, and out-of-NYU programs. College Leaders instruct students on the core pillars of Academic Success, Personal and Career Development, Community Engagement, and Leadership Experience. College Leaders also build the CAS community by hosting a minimum of 6 Cohort Events and collaborate with a CAS professional advisor to facilitate the weekly course, acclimating students to NYU and NYC.

**Jewish Community Center of Greater New Haven.** Woodbridge, CT

6/2024-8/2024

*Lifeguard/Swim Instructor*

In my role as a lifeguard, my primary responsibility was to supervise all aquatic activities at my local JCC to ensure that all policies, guidelines, and safety procedures are followed. I was required to warn all participants of dangerous activities and, in the event of injury, administer first aid and rescue swimmers in danger of drowning. I also had to inspect both the pool facilities and the quality of the water to ensure everything was within safe limits, and I assisted in cleaning the pool and other facilities as needed. I also had to manage the patrons using the pool, resolving conflicts and ensuring everyone had an enjoyable time.

**Brian Hafler Lab.** New Haven, CT

6/2022-8/2024

*Research Assistant*

I interned at the Brian Hafler Lab at the Yale University School of Medicine for 3 summers, performing molecular biology experiments with the ultimate goal of helping to cure high impact ocular diseases. For my first summer, I focused on the protein IGFBP2 and its role as an angiogenic factor in eyes with Age-Related Macular Degeneration (AMD). I performed immunostaining experiments, hematoxylin and eosin stains, *Ex vivo* sprouting assay and confocal microscopy, all to assess whether or not IGFBP2 is a potential target for anti-protein treatments for AMD. During my second summer, I touched upon a number of projects, helping each of the primary researchers with their own work. I performed single-nucleus isolation, mice retina dissections, ELISA assays, and BSA assays. In the most recent summer, I took on a number of different projects, all with the ultimate goal of using the retina as a window to the central nervous system. I stained for senescence associated secretory proteins in the retina, performed whole eye clearing and staining to visualize amyloid-beta plaques in eyes, and began a project to quantify the effects that COVID-19 has on the eye.

**SenseTime Smartlife Solutions.** Abu Dhabi, UAE

6/2023

*Project Manager Intern*

I served as a Project Manager Intern to the Abu Dhabi division of the SenseTime Smartlife Solutions team, which provides AI powered imaging services to 4 amusement parks and the Qasr Al Watan there. In my role, my primary responsibility was to keep track of dozens of tasks per day, leading a team of about 10. Through daily meetings, I was required to hold my team members accountable to a schedule, negotiate any changes that need to be made, and report this progress to the team leader. Via on-site testing of the our product, I also worked to produce documents outlining our work to company executives and producing a Standard Operating Procedures for each of the 5 sites.

**New England Retina Associates.** Hamden, CT

06/2020 – 08/2021

*Ophthalmic Photographer*

My primary role at New England Retina Associates (NERA) was as an ophthalmic technician and photographer; I used high-tech imaging machines to take retina scans and photos to assist the doctor with diagnosis and treatment of retinal conditions. Imaging included ocular coherence tomography (OCT) scans, digital fundus photos, and fluorescein angiographies. Other responsibilities included medical scribing and recording the doctor's notes during patient exams and preparing the patients for intravitreal injections. Required knowledge of ophthalmology,

proficiencies in ophthalmic equipment such as the OCT machine and retinal camera, interpersonal communication skills, and good hand dexterity.

### **Research:**

- 1) Performed a case series presenting a new surgical technique for correction of scleral-fixated intraocular lens tilt.
  - a. Published in The Journal of Cataract & Refractive Surgery as lead author
  - b. Accepted for presentation at the 43<sup>rd</sup> Congress of the European Society of Cataract and Refractive Surgeons
- 2) Produced 3D models of ocular lenses to showcase the differences between healthy eyes and astigmatic eyes.
  - a. Presented at The Connecticut Society of Eye Physicians Scientific CME Regional Meeting 2024
- 3) Data table analysis of patients with diabetic retinopathy and the effects of social health determinants on disease severity upon presentation.
  - a. Published in EC Ophthalmology as the lead author
  - b. Published in The International Journal of Ophthalmology and Visual Science as the lead author
  - c. Accepted for presentation at the Global Ophthalmology Summit 2025
- 4) Review of the peripheral immune system involvement in eyes with age-related macular degeneration
  - a. Published in Frontiers in Cell and Developmental Biology as a contributing author
- 5) Data table analysis of patients with macular edema following retinal vein occlusion (MEfRVO) and the effect of delayed appointments due to the COVID-19 pandemic.
  - a. Presented at The Retina World Congress and American Society of Retina Specialists
- 6) Performed a case review of pigmented intraocular tumors.
  - a. Accepted by American Academy of Ophthalmology, EyeNet Journal as a contributing author
- 7) Created a survey investigating the effects of the COVID-19 pandemic on Retina Practices and Patients.
  - a. Published in Retina Today as a contributing author

### **Publications:**

Huang, D., Cervantes, L. (2025). Management of severe intraocular lens tilt using transsulcus retention sutures. *JCRS Online Case Reports* 13():p e00167.

<https://doi.org/10.1097/j.jcro.0000000000000167>

Huang, D., Channamsetty, S., Verter, E., Huang, J. (2024). Racial and Socioeconomic Differences Correlate with Healthcare Disparities in Patients with Diabetic Retinopathy. *International Journal of Ophthalmology & Visual Science*, 9(3), 30-39.

<https://doi.org/10.11648/j.ijovs.20240903.11>

Huang, D., Channamsetty, S., Huang, J. (2023). Severe Healthcare Disparities Arise in Patients with Diabetic Retinopathy. *EC Ophthalmology*, 14(4), 3-7.  
<https://ecronicon.net/assets/ecop/pdf/ECOP-14-00971.pdf>

Ascunce, K., Dhodapkar, R. M., Huang, D., & Hafler, B. P. (2023). Innate immune biology in age-related macular degeneration. *Frontiers in cell and developmental biology*, 11, 1118524.  
<https://doi.org/10.3389/fcell.2023.1118524>

Verter, E., Coady, P., Huang, D., Huang, J. (2020). Effects of COVID-19 on Retina Practices and Patients. *Retina Today*, 15(5), 62-64. <https://retinatoday.com/articles/2020-july-aug/effects-of-covid-19-on-retina-practices-and-patients>

### **Continued Medical Education Events:**

**Hartford Healthcare and Connecticut Uveitis Foundation:** May 29, 2024  
**Advances in Ophthalmology and Optometry**

**Connecticut Society of Eye Physicians Scientific CME Regional Meeting: Navigating Ophthalmology's Many Challenges** June 14, 2024  
- Prepared 3D models for Presentation, "What is Astigmatism"

### **Volunteer Work:**

**Choate Science Tutoring** 09/2020 – 05/2021

An application or recommendation-based peer tutoring program. I meet for an hour a week with a student taking a science course I've already completed, and I help them work through homework, practice problems, study for an assessment, or get a head start on new material.

**Choate Math Tutoring** 09/2020 – 05/2021

An application or recommendation-based peer tutoring program. I meet for an hour a week with a student taking a math course I've already completed, and I help them work through homework, practice problems, study for an assessment, or get a head start on new material.

**Special Olympics** 02/2020

Special Olympics is the world's largest sports organization for children and adults with intellectual disabilities and physical disabilities. I volunteered during a skiing and snowboarding activity they held, where I got to interact with the athletes, made sure they were going the right way, and doing my best to ensure that they had an enjoyable time.

**Habitat for Humanity of Bridgeport Connecticut** 08/2021, 08/2023

Habitat for Humanity is a non-profit organization dedicated to constructing affordable housing for those in need. For my work with them, I constructed bookshelves to be placed in the newly constructed houses, and got to work with the family I was building the bookshelf for. I also participated in fund raiser for to help additional families in need.

**Integrated Refugee and Immigrant Services (IRIS)** 11/2021 – 2/2023

### **Afterschool Tutoring**

IRIS is a non-profit agency whose mission is to help refugees and other displaced people to

establish new lives in the USA. Every week, I work with them for a few hours to help tutor established refugees in New Haven elementary school and middle school. In addition to tutoring, I also have the opportunity to help these young refugees adjust socially to their new environment and United States.

### **School Publications:**

**Choate Public Health – Calorie Restriction: The Key to a Longer Life?** Spring, 2020

**Choate Public Health – Pinworm Infections: The Basics** Fall, 2019

**Choate Public Health – Health Reimagined in the Remote World of COVID-19** Fall, 2020

**Choate Public Health – Neuralink: Testing the Brink of Neurotechnology** Fall, 2020

**Choate Public Health – Farming Technology Yields Potential Global Solutions** Spring, 2021

**Choate Public Health – Racial Disparities in Healthcare: Substance Abuse in Black and Indigenous Communities** Fall, 2021

**Voices – owen hurcum: “their worship of wales”** Fall, 2021  
Voices is Choate Rosemary Hall’s LGBTQIA+ publication on campus.

**Lorem Ipsum – Opinion: MFA is a Campus Hazard** Fall, 2021  
Lorem Ipsum is Choate Rosemary Hall’s satire publication on campus.

**Choate Public Health – The Health Center Cares About Our Sexual Wellness, and You Should Too** Spring, 2022

**Voices – Historical LGBTQIA+ Voices in STEM** Spring, 2022

**Choate Public Health – Racial and Ethnic Disparities in Childhood Obesity + Subsequent Obesity Treatment** Winter, 2022

### **Memberships:**

**NYU Medical Dialogue Review Copy Editor** 2/2024 – 5/2024

**Eco-Rep** 9/2020 – 5/2023

Application based team of students dedicated to environmental sustainability. Work with Choate’s Conservation Proctors and the student body to challenge our school to be as environmentally responsible as possible. Requires reapplication each year.

**Gold Key Ambassador**

9/2020 – 5/2023

Application based team of students who serve as the first student point of contact for prospective Choate students. Gold Key Ambassadors work with the Choate Admissions Office, providing tours and answering questions for prospective students.

**Choate's Committee for Diversity, Equity and Inclusion**

11/2020 – 5/2023

Founding member of Choate's Committee for Diversity, Equity and Inclusion (CDEI). CDEI is a branch of the student government dedicated to improving the diversity, equity and inclusion of our school by educating the student body, empowering identity-based clubs, and holding our school accountable.

**Cabinet of Choate Aerospace Association**

12/2020 – 5/2023

Founding member and Director of Operations of the Choate Aerospace Association (CAA). CAA is a club dedicated to increasing the interest of aerospace and bring a wealth of knowledge about the subject to the Choate student population.

**Cabinet of Choate Medical Interest Club**

12/2020 – 5/2023

Founding member and Vice President of the Choate Medical Interest Club (MIC). MIC's mission is to foster an interest in medicine and medical sciences in the Choate community, allow students to interact with real medical professionals, broaden knowledge in medical topics, and provide a method through which students can improve their presentation and research skills.

**Choate Public Health Copy Editor**

9/2022 – 5/2023

**JV Cross Country**

Fall, 2019 – 2022

Choate's junior varsity cross country team.

**JV Basketball**

Winter, 2019 – 2021

Choate's junior varsity basketball team.

**JV Crew**

Spring, 2020 – 2021

Choate's junior varsity crew team

**Varsity Crew**

Spring, 2022 – 2023

Choate's varsity crew team

**Gold Key Leader**

Fall 2022 - 5/2023

Gold Key Leaders serve as a liaison between Gold Key Ambassadors and the Admission Office, train new Gold Key Ambassadors, serve on Choate Q&A's, all while still fulfilling their Regular Gold Key Responsibilities.

**Pathways Mentor**

Fall 2022 - 5/2023

Pathways Mentors are assigned a new student of color to mentor throughout. We're expected to meet with them regularly and provide support and guidance as necessary.

**Diversity, Equity, and Inclusion Work:****2020 NAIS Student Diversity Leadership Conference (attended) 12/2020**

The NAIS Student Diversity Leadership Conference is a multiracial, multicultural gathering of high school student leaders from across the U.S. and abroad. SDLC focuses on self-reflecting, forming allies, and building community. Admission for Choate students is based on an extensive written application.

**2021 CAIS Student Diversity Leadership Conference (attended) 4/2021**

CAIS SDLC is a student conference that is led by some of the leading diversity practitioners and educators across the state of Connecticut. This virtual conference features workshops, affinity groups, and ways to build community and connect.

**AAPI Interscholastic Conference (hosted) 5/2021**

Asian American/Pacific Islander Interscholastic Conference was a student conference I, in cooperation with students from other private schools, planned, organized, and hosted online to connect AAPI students attending private high schools in Connecticut and to try to educate them. Although only an hour long, we had two guest speakers and time for conversation groups.

**Diversity Day Facilitator 2020, 2021, 2022**

During Choate's annual Diversity Day, I was chosen to plan, host, and lead conversations on several topics, varying from the morals and ethics of having a romantic "type," to the historical precedence for and institutional biases of healthcare disparities. Facilitators are chosen based on a written application process and previous involvement with the Equity and Inclusion office.

**Awards/Recognitions:**

**NYU DURF First- and Second-Year Training Grant** Spring 2025

**NYU Dean's Undergraduate Research Fund Grant** Spring 2025

**NYU Dean's List for Academic Year of 2023-2024** Summer 2024

**Invitation to NYU CAS Presidential Honors Scholars Program** Summer 2023

**Invitation to Sigma Xi Research Society** Summer 2023

**Induction to Cum Laude Society** Spring 2023

**Candidate for U.S. Presidential Scholars Program** Winter 2022

**National Merit Scholarship Program Commendation** Fall 2022

**Notable Mention: Choate Rosemary Hall Award for Outstanding Accomplishment and Genuine Interest in Physics** Spring, 2022



**JV Basketball Team Captain**

Winter, 2021

As captain of the JV basketball team, I led the team through stretches and practices, and was the example/role model for the team. This role was chosen based on a combination of basketball skills, leadership skills, experience, and maturity.

**Cross Country Social Media Manager**

Fall, 2021-2022

As the social media manager of the cross-country team, it was my responsibility to balance practice with pictures. I used my role to advertise competitions, keep former runners in the loop, and fostering team community.

**Choate Third Term Dean's List**

2020,2021,2022,2023

**Choate Second Term Dean's List**

2020,2021,2022,2023

**Choate First Term Dean's List**

2019,2020,2021,2022