

Deven Huang

Undergraduate Class of 2027
Biochemistry
New York University

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EDUCATION

New York University

Bachelor of Arts in Biochemistry, GPA: 3.981, Major GPA: 4.000

- Minors in Mathematics and Business Studies

New York, NY

September 2023-May 2027

Choate Rosemary Hall

High School Diploma

- SAT 1590; Overall GPA 4.043

Wallingford, CT

May 2023

HONORS

NYU DURF First- and Second-Year Training Grant

2025

NYU Dean's Undergraduate Research Fund Grant

2025

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

2024

Induction to Cum Laude Society

2023

PROGRAMS

NYU CAS Presidential Honors Scholars Program

September 2023 – Present

Choate Rosemary Hall Science Research Program

September 2021 – November 2022

EXPERIENCE

Union Square Eye Care

Ophthalmic Technician

New York, NY

June 2025 - Present

Stern Business Analytics Club

Quantitative Finance Team Member

New York, NY

February 2025 - Present

Marcus Weck Lab at New York University

Research Assistant

New York, NY

February 2025 - Present

NYU College of Arts and Science

College Leader

New York, NY

May 2024 – Present

- College Leaders serve as role models, mentors and sources of support for incoming first-years.
- Collaborated with a CAS professional advisor to facilitate a weekly course
- Mentored a cohort of 35 first year students, informing them about NYU resources, events, and programs.
- Instructed students on the core pillars of Academic Success, Personal and Career Development, Community Engagement, and Leadership Experience.
- Built the CAS community by hosting 6 Cohort Events.

Jewish Community Center of Greater New Haven

Lifeguard and Swim Instructor

Woodbridge, CT

June 2024 – August 2024

SenseTime SmartLife Solutions

Project Manager Intern

Abu Dhabi, UAE

June 2023

- Provided AI powered imaging services to 5 different locations throughout Abu Dhabi, serving thousands of people
- Managed the progress of dozens of tasks per day for a team of about 10.
- Held team members accountable to a schedule and negotiated any changes that needed to be made.
- Provided hands-on testing of the AI products with troubleshooting.
- Produced 5 Standard Operating Procedures outlining our work to company executives, one for each of the 5 sites.

Brian Hafler Lab at Yale School of Medicine

Research Assistant

New Haven, CT

June 2021 – August 2024

- Performed biochemical and molecular biology procedures to investigate high impact ocular diseases
- Investigated the angiogenic effects of IGFBP2 in retinas with Age-Related Macular Degeneration via immunofluorescent staining and *ex vivo* murine retinal angiogenesis assays.
- Performed single-nucleus isolation, mice retina dissections, ELISA assays, and BSA assays to identify new potential targets for biologic drugs.

- Used immunofluorescent staining to confirm the presence of senescence associated secretory proteins (SASPs) in the retina, such as CXCL11, CCL20 and IQGAP1.
- Visualized amyloid-beta plaques in the eye through whole globe clearing and immunofluorescent staining
- Spearheaded a project quantifying the microvasculature effects /plaque development of COVID-19 on the retina.

New England Retina Associates

Hamden, CT

Ophthalmic Photographer

June 2020 – August 2021

- Served >50 patients per day
- Took > 100 OCT scans per day
- Used high-tech imaging machines to take retina scans and photos to assist the doctor with diagnosis and treatment of retinal conditions.
- Took ocular coherence tomography (OCT) scans, digital fundus photos, and fluorescein angiographies
- Conducted medical scribing, recording the doctor's notes during patient exams and preparing the patients for intravitreal injections.
- Trained other ophthalmic photographers and technicians about use of imaging tools.

PUBLICATIONS

Huang, D., Cervantes, L. (2025). Management of severe intraocular lens tilt using transscleral retention sutures. *JCRS Online Case Reports* 13():p e00167. <https://doi.org/10.1097/j.jcro.000000000000167>

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>

NON-LAB RESEARCH

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

SKILLS

Computer: Advanced proficiency in Excel, knowledge of MS Office applications, Photoshop, Premiere Pro, and Procreate

Research: Immunofluorescence Staining, Hematoxylin & Eosin Staining, Data Analysis, ELISA Assay, Bradford Assays, Confocal Microscopy, Cryostat Sectioning, EMRA assay, Preparation of snRNA-seq samples

Clinical: CPR/AED Certified, Optical Coherence Tomography, Fundoscopy, Fluorescein Angiography, Intraocular Injection Patient Prepping

Other: Lifeguard Certified