

Ivy Liang

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EDUCATION

- The University of Texas at Austin**, Austin, TX May 2025
Bachelor of Science, Neuroscience Honors, Certificate in Spanish for Healthcare Professions
GPA: 3.91
- Texas Academy of Mathematics and Science**, Denton, TX May 2021
GPA: 3.94

EXPERIENCE

- Duarte Memory and Aging Lab**, Austin, TX January 2024 - Present
Undergraduate Researcher
- Fully trained to set up and operate an electroencephalogram for brain activity readings
 - Utilize PsychoPy, MATLAB, and Python to process, clean, and analyze data derived from EEG experiments
 - Collaborate with PI and PhD students to design tasks used in various neurological experiments
 - Current project: using EEG to determine brain wave patterns that represent active learning in human studies
- Optimize Neurology**, Austin, TX May 2023 - Present
Medical Assistant, Front Admin
- Maintain accurate and up-to-date patient records, document medical histories, enter data into electronic health records systems, ensure confidentiality of patient information, set up Botox injections and occipital nerve blocks
 - Collaborate with healthcare professionals to ensure effective patient care, smooth workflow and communication
 - Process prior authorizations to pharmacies and specialty pharmacies for medications prescribed to patients
- Devitt/Hillis Research Lab**, San Marcos, TX June 2022 - August 2022
Undergraduate Researcher
- Fully-trained to operate an Olympus Laser Scanning Microscope and Hirox Digital Microscope alone
 - Learned to conduct immunohistochemistry to stain for rhodopsin and Pax6 activity in salamander eyes
 - Researched the biological development of *Eurycea Rathbuni* and *Eurycea Nana* salamanders native to Texas
- Kroger Pharmacy**, Spring, TX July 2021 - August 2021
Pharmacy Technician
- Fully-trained to fill, verify, and release various types of medications per prescriptions and provider's orders
 - Worked closely with the pharmacist to ensure quality care to all patients and maintain patient confidentiality
 - Prepared new medications and refill requests for patients of all ages and kept track of inventory supplies
- Liu Research Lab**, Dallas, TX January 2020 - August 2021
Undergraduate Researcher
- Interdisciplinary research focused on CRISPR-Cas9; designing a new variant of Cas9 for more specific cleavage
 - Implement and advance machine learning methods, Chimera, Terminal, and Jupyter for data analyzation
- Cundari Research Lab**, Denton, TX August 2019 - December 2020
Undergraduate Researcher
- Chemistry-focused research on the functionalization of methane
 - Utilize WinSCP, Putty, Terminal, Cruntch2 and Cruntch3, and Chemcraft for analyzing results
 - Published in the Journal of Physical Chemistry A: <https://pubs.acs.org/doi/abs/10.1021/acs.jpca.0c04756>
- MD Andersen GI Specialists of Houston LLP**, Houston, TX January 2021 - May 2021
Student Intern
- Shadow Dr. Anandu in clinical and endoscopy center settings during an entire workshift

- Work alongside a medical student from Mexico to practice Spanish and learn what her responsibilities entail
- Assist with basic clinical work, practice diagnosing patients, experience how a GI clinic is run

TAMS Helping Other People Everywhere (HOPE), Denton, TX

August 2020 - May 2021

Junior Blood Drive Coordinator, Secretary

- Collaborated with fellow Junior Blood Drive Coordinators to host a blood drive at McConnell Hall
- Oversee 18 unique volunteering committees and coordinated their transition to online and decentralized formats
- Host major events at TAMS: Blood Drives, HOPE Auction, yearly Halloween escape room
- Partnered with Carter BloodCare to raise over 100 units of blood during the 2019-2020 school year
- Raised \$8,500 through HOPE Auction 2020 and donated \$17,000, after it got matched, to Rainforest Trust
- Raised \$6,300 through HOPE Auction 2021 and donated to Direct Relief
- <https://www.tamshope.org/>
- <http://voyagedallas.com/interview/meet-saatvik-sunkavalli-braiden-aaronson-harish-sridharan-ivy-liang-amy-guan-hope-helping-people-everywhere-far-northwest>

LEADERSHIP & COMMUNITY INVOLVEMENT

Brain Exercise Initiative (BEI)

August 2023 - Present

Volunteer

- Assist in brain-stimulating exercises with seniors at local senior homes to improve cognitive function
- Raise awareness for Alzheimer's disease and other neurodegenerative diseases by volunteering at local events
- Initiated new activities that incorporated physical exercise along with brain exercises to promote physical health

UT Student Engineers Educating Kids (SEEK)

August 2023 - Present

Program Officer, Volunteer

- Collaborate with other program officers to facilitate volunteering sessions and design novel activities
- Promote awareness of higher education in engineering to community youth through tutoring and mentoring
- Serve as the point of communication between the school program managers and SEEK and its volunteers

Alpha Epsilon Delta Honor Society (AED)

August 2022 - Present

Volunteer Coordinator, Volunteer Committee

- Attend weekly meetings
- Lead volunteer events and facilitate communication between different volunteer organizations and AED
- Founding coordinator for the popular Love-A-Bull dog rescue volunteer events for society members

UT Filipino Student Association (FSA) Ultimate Frisbee Team

August 2021 - Present

Ultimate Frisbee Co-Captain, Athlete

- Conduct team practices with a co-captain, organize socials for team cohesion, coach new members
- Three-time champion in the annual Goodphil competition, competing against university teams statewide

UT University Orchestra (UTUO)

August 2021 - May 2023

Flautist, University Orchestra Student Association

- Gain entry to the orchestra through a competitive, blind audition process at the start of every school year
- Organize groups for mixed ensembles and social events to encourage community within the orchestra
- Perform in two to three concerts, a self-organized mixed ensemble, and two weekly rehearsals per semester

Montgomery County Animal Shelter

June 2019 - August 2022

Volunteer

- Assist shelter staff with adoption fairs and events by facilitating set-up and take-down and guiding adopters
- Developed a more efficient way of making cat feed bowls that almost halved the original preparation time
- Help set up cat room before shelter opens to the public by thoroughly cleaning kennels and feeding cats

SKILLS

Technical / Computer Skills: *Basic Python, Intermediate Excel, Microsoft Office, Elation EMR, PsychoPy, IgorPro, Flute*

Languages: *English (fluent), Mandarin (Fluent), Spanish (Intermediate)*

HONORS AND AWARDS

- Dean's Scholars Honors Program
- Dinner with 16 Longhorns (16/400 chosen from application submissions)
- Lan Nguyen Memorial Scholarship for Alpha Epsilon Delta (Texas Alpha Chapter) 2023
- One of thirteen chosen for the National Flute Association Flute Choir 2021-2022
- Undergraduate Research Fellowship Summer 2022
- Co-authored a publication in the American Chemical Society <https://doi.org/10.1021/acs.jpca.0c04756>