Eliam Chang

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EDUCATION

Vanderbilt University

Majors: Biomedical Engineering & Computer Science Minor: Digital Fabrication **GPA:** 3.82

EXPERIENCE

Kang Lab

Research Assistant

- Applied drug treatments to GAT-1 and GAT-3 mutated cells to evaluate difference in protein expression and function.
- · Conducted PEI-mediated transfection for cDNA and performed Western blotting for protein detection and quantification

Ascension Saint Thomas West

Patient Care Technician (PRN), Cardiac Telemetrist (PRN)

- April 2023 December 2023, January 2024 June 2024 • Monitored 50 at-risk patients by tracking electrical activity patterns in the heart to detect life-threatening rhythms
- Assisted nurses by communicating patient rhythms, admit, and discharge with medical technicians to solve patient complications

Venodynamics

Biomedical Engineering Intern

- Developing an Inferior Vena Cava model to test for full occlusion with the Venodynamics Heart Failure Treatment Device
- Writing a clinical trial research paper comparing the abilities of cardiologists against our device in detecting full occlusion
- · Fundraising for four emerging Wondr'y biomedical startups through interviewing biomedical investors across the United States

Vanderbilt Wond'ry Map the Systems

Competitor

- Combatted disparities within the diagnosis and treatment of Alzheimer's by researching, mapping, and presenting findings
- Interviewed over 12 caretakers, physicians, policymakers, lawyers, and professors to understand and present on Alzheimer's care

Vanderbilt Institute of Nanoscale Science and Technology

Summer Intern. Technical Crew Member

- Compared and presented on sputter, electron-beam, and resistive deposition on optimal thin-film properties of Al, Al₂O₃, and Cr
- · Maintained and troubleshot multi-million-dollar instruments to enable users to conduct seamless research

COMMUNITY SERVICE

Vanderbilt Special Olympics

Vice President, Sports Coordinator, Treasurer

- United the greater Vanderbilt community with over 25 neurodiverse individuals by coaching them in various athletic events
- Facilitated Vanderbilt relations with Tennessee Special Olympics by organizing a Polar Plunge to raise money for athletes

Nu Chapter Beta Upsilon Chi

Community Service Chair, Recruitment Chair

- Raised awareness for food insecurity by coordinating brothers in serve, educate, and fundraise for 14 non-profits organizations
- Planned 10 recruitment events in order to select 8 new members from an applicant pool of over 40 Christian individuals

Forest Hills Baptist Church

Assistant 3rd Grade Teacher, Worship Team Member

- Implemented a virtually broadcasted Sunday service to provide a worship experience for those unable to attend in-person
- Engaged youth members by designing and teaching a bible curriculum and incorporating music from 12 years of cello experience

SKILLS & INVOLVEMENT

Skills: Fusion 360, Python, Java, MATLAB, JavaScript, CSS, HTML, Mandarin (fluent), Spanish (conversational), Orchestral Cello Interests: Teaching chess to others, Eurovision watch-parties, Golden State Warriors, Color-coordination, Catan boardgame Campus Involvement: Resident Advisor (RA), Bellan Lab Research Assistant (October 2022 - July 2023), Tikkum Olam Makers

October 2023 – present

Nashville, TN

Nashville, TN

Class of 2026

Nashville, TN

Nashville, TN

January 2024 – May 2024

Nashville, TN

September 2023 – January 2023

Nashville, TN May 2023 – August 2023, September 2023 – December 2023

Nashville, TN

August 2022 – Present

Nashville, TN

October 2023 – Present

Nashville, TN

September 2023 – present