

EDUCATION

Johns Hopkins University

Baltimore, MD

Bachelor of Science, Majors: Biomolecular and Chemical Engineering and Neuroscience

May 2025

- Graduated with General Honors and Departmental Honors in Chemical Engineering
- GPA: 3.81/4.0
- Fraternity Treasurer Phi Gamma Delta (FIJI)

RELEVANT EXPERIENCE

SCORE LABORATORY (JHU)

Baltimore, MD

Research Assistant

September 2024 – May 2025

- Developed and administered novel treatment materials for the PICTURE-IT Study, focused on speech rehabilitation in post-stroke aphasia patients
- Engaged directly with patients during task sessions, strengthening active listening skills and enhancing patient rapport
- Gained insights into the role of self-expression in mental health and the importance of communication in patient recovery

CRONE LABORATORY (JHU)

Baltimore, MD

Clinical Research Assistant

November 2023 – September 2024

- Led reliability analysis of brain-to-speech decoding models using intracranial EEG data from an ALS patient
- Administered cognitive and linguistic tasks during experimental sessions to collect high-fidelity neural data for model training
- Supported data preprocessing and applied regression analyses to assess model performance across sessions
- Coordinated patient intake, setup, and experimental protocol execution, ensuring consistency and ethical care in human-subject research

UCSF DEPARTMENT OF NEUROSURGERY

San Francisco, CA

Engineer Intern

May 2023 – August 2023

- Worked as part of engineering team on a brain-to-speech implantable neuroprosthetic device
- Designed and carried out device verification tests (electrode soaking impedance test)
- Adjusted mechanical designs for device based on neurosurgeon feedback

KEYSTONE TUTORING

Baltimore, MD

Co-Founder

October 2022 – Present

- Founded and scaled a tutoring company matching high school students with qualified tutors from top universities, generating over \$500/week in revenue
- Developed two branches: a paid service offering academic support in STEM, writing, test prep (SAT/ACT), and college advising; and a non-profit branch providing free tutoring to underserved students
- Recruited, trained, and managed a team of 6+ tutors, implementing systems to maintain personalized, high-impact instruction
- Oversaw business operations including scheduling, invoicing, marketing, and strategic expansion based on local educational needs

MAKING NEUROSCIENCE FUN VOLUNTEERING PROGRAM

Baltimore, MD

Operations Director

February 2022 – May 2023

- Promoted from volunteer instructor to Operations Director after proposing and implementing structural improvements to enhance program reach and sustainability
- Collaborated with program founder to redesign workflows, improving training, scheduling, and communication for volunteers
- Delivered interactive neuroscience lessons to K–5 students, blending brain health, mental wellness, and emotional awareness in age-appropriate formats

PROJECT LEADER AT CANCER RESEARCH CENTER AT JHMI

Baltimore, MD

Research Assistant

February 2022 – May 2023

- Managed own project as a part of Dr. Prashant Desai's Lab studying the KSHV genome
- Led a team of 3 research assistants in developing primers and g-blocks for several ORFs in KSHV

COBALT CONSULTING GROUP

Baltimore, MD

Consultant

November 2022 – May 2025

- Led a consulting team tasked with evaluating alternative dosing strategies for an anticoagulant drug to minimize adverse events
- Conducted competitive landscape analysis, literature reviews, and preliminary clinical research to support evidence-based recommendations

ACHIEVEMENTS

- All 4 years of college on Dean's List, Departmental Honors in Chemical Engineering and General Honors
- MCAT Score: 521

SKILLS

Spanish (native), Catalan (native), RedCap Software, Fusion 360 CAD, IRB submission systems, JavaScript, Python, MATLAB, UNIX, Excel, Word, PowerPoint, Advanced Wet Laboratory Skills, ImageJ, FIJI