
EDUCATION**Northeastern University**, Boston, MA

Sept 2022 - May 2026

*Bachelor of Science Data Science and Behavioral Neuroscience | Pathways: Computer Science, Pre-medicine***Honors & Awards:** Dean's List, Northeastern Conference Travel Award 2025, Alpha Epsilon Delta Honor Society**Activities:** Writer for NU Sci Magazine (2023-Present), Mentor in Neurons Club, Women in Tech, Hall Council Treasurer (2024-2025)

TECHNICAL SKILLS**Languages:** Python, SQL, R, Java, JavaScript, HTML/CSS, React, Swift, Kotlin**Tools:** Git, Linux, Jupyter Notebook, VSCode, PyCharm, SPSS, MySQL Workbench, ITK-SNAP, Figma, Jira, Adobe Creative Suite**Libraries:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Keras

WORK EXPERIENCE**Research Engineer** | Cognition and Intelligence Lab, University of Miami

(Full-Time) July 2025 - Dec 2025

Advisors: Dr. Mingbo Cai (Primary), Dr. Sho Tsuji

(Part-Time) Jan 2026 - Present

- Designed and deployed an end-to-end automated behavioral annotation pipeline using multimodal video-language model to classify time-series parent-child interaction states from video data, achieving 90% accuracy across 500+ annotated segments and reducing manual annotation time; following software engineering best practices
- Engineered prompt optimization and output parsing framework to convert generative model predictions into structured behavioral labels; developed statistical validation workflows to validate model performance against human expert annotations
- Preparing first-author manuscript for ICDL Conference and open-source framework release

Research Assistant | Center for Translational Neuroimaging, Northeastern University

May 2023 - May 2024

Advisors: Dr. Craig Ferris, Dr. Praveen Kulkarni

- Performed 3D neuroimaging segmentation on 50+ rodent MRI datasets using ITK-SNAP; preprocessed fMRI data
- Supported pre-clinical psilocybin research for mild TBI treatment through behavioral phenotyping protocols including open-field testing, novel object recognition, animal acclimation, and gavaging

Clinical and Hospital Intern | Cleveland Clinic, Weston, FL

May 2024 - Aug 2024

Primary Mentor: Dr. Samer Riaz | Neurology Unit

- Analyzed neuroimaging data (EEG, MRI, CT) for 50+ epilepsy and neurological disorder cases; correlated imaging biomarkers with clinical presentations to understand diagnostic workflows and treatment planning
- Observed surgical procedures and participated in pre/post-operative outcome discussions
- Attended interdisciplinary physician meetings focused on complex case reviews; developed understanding of how quantitative imaging metrics and clinical data interpretation inform decision systems in neurology; 400+ hours of exposure

LEADERSHIP & ACTIVITIES**Product Manager** | (Contract Employee) Zor! LLC, Boston, MA

Sept 2025 - Present

- Lead cross-functional team of 10+ students across engineering, design, and business functions in agile development cycles; manage product roadmap and sprint planning for digital health management app serving 50+ beta users
- Drive strategic partnerships and investment discussions with 1 venture capital firm; developed pitch deck materials
- Provide UI/UX design consultation with clinical and technical focus; designed relational database schema for patient health records and conducted user research interviews with 30+ healthcare providers
- Contribute to deep learning model for personalized health predictions; generate synthetic patient data for validation

Teaching Assistant | Northeastern University, Boston, MA

Jan 2025 - Apr 2025

Professor: Dr. Leslie Ricci | Course: BIOL3415 Neurobiology and Technology

- Hosted 2 weekly office hours and exam review sessions for 40+ students; provide guidance on assignments, exam prep, and research projects. Proofread course materials to refine curriculum and communicate with the professor and co-TA

Clinical Volunteer | UMC Free Clinic, Miami, FL

May 2022 - Present

- Take patient vitals and check-up paperwork. Distribute health products, food, clothing, and toy donations. Communicate in Spanish. Serving uninsured, minority, or unhoused communities. Manage and collect donation finances at annual gala events. Total ongoing 200+ volunteer hours.

PRESENTATIONS**First-author Poster**, *AI-based analysis of action and attention in parent-child interaction*, NeuroBoston-SfN Chapter

Dec 2025