

Can Kam

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EDUCATION

Dartmouth College, Hanover, NH, USA

Bachelor of Arts, Major in Neuroscience and Biological Chemistry, Minor in Music:

Relevant Coursework: Cellular & Molecular Neuroscience, Behavioral Neuroscience/Psychology, Neuromarketing, Cellular Biology, Biochemistry, Intro to Neuroscience, Organic Chemistry, General Chemistry, Mechanics, Statistics, Calculus, Music, Health, Equity, & Culture

June 2027

GPA: 3.62/4.00

University of Oxford, *Trinity College*, Oxford, UK

Coursework: Enzymes (A), Neuropharmacology (A) and Neurodegenerative Diseases (A)

January 2026 - March 2026

GPA: 4.00/4.00

RESEARCH & WORK EXPERIENCE

Yale University School of Medicine, Department of Neurology, New Haven, CT, USA

Visiting Undergraduate Research Intern

June 2026 - September 2026

- Conducting research on long-term cognitive and clinical outcomes in epilepsy, including the New-Onset Refractory Status Epilepticus (NORSE/FIRES) and Accelerated Long-Term Forgetting in Epilepsy (ALFIE) projects.
- Performing preliminary analyses of multimodal clinical, neuropsychological, and electrophysiological datasets (including long-term hippocampal depth-electrode and EEG recordings) using REDCap-based data management to probe mechanisms of memory dysfunction.
- Contributing to literature review, study design, and data interpretation, with exposure to neuromodulation therapies like Responsive Neurostimulation (RNS).

Yeh Lab at Dartmouth Geisel School of Medicine, Hanover, NH, USA

Undergraduate Research Assistant

June 2025 - Current

- Investigated the impact of prenatal alcohol exposure on amyloid protein processing in transgenic and non-transgenic mouse models, testing whether early-life disruptions to γ -secretase function shift production toward toxic, plaque-forming pathways in Alzheimer's disease
- Performed immunohistochemistry on 1,000+ brain sections to assess neurodegeneration, cortical volume loss, and apoptosis across experimental groups
- Conducted Western blotting (SDS-PAGE, BCA) on 500+ cortical samples, quantifying γ -secretase activity and neuroinflammatory markers via ImageJ-Fiji

Dartmouth Initiative for Research on Energy Communication Transformation (DIRECT) Lab, Hanover, NH, USA

Undergraduate Research Assistant

March 2025 - Current

- Designed a 2x3x2 mixed factorial study (N=150) examining how warm glow and cold prickle emotional framing influence pro-environmental decision-making, integrating EEG, eye-tracking, and GSR to capture real-time neural and physiological responses
- Developed a Hidden Markov Model in Python predicting behavioral transitions from low- to high-effort eco-behaviors by emotional intensity and ideology.
- Conducted factorial ANOVA and moderation analyses on induction conditions, message framing, and personality moderators (IRI, MFQ, NES)

Novartis, Istanbul, Turkey

Clinical Operations Intern

December 2025

- Completed a short-term internship, learning clinical study quality control (reviewing SOPs and GCP), pharmacovigilance workflows (adverse event collection, data entry, medical evaluation, regulatory submission), and clinical research operations, including trial documentation flow and safety signal tracking

Dartmouth Social Identity and Dialogue (SID) Lab, Hanover, NH, USA

Undergraduate Research Assistant

September 2024 - September 2025

- Analyzed multi-modal physiological and behavioral data (audio, video, BIOPAC heart rate/respiration) from 50+ interracial mentoring conversations, isolating anxiety-related cues underlying intergroup dialogue
- Conducted ANOVA and regression analyses in Excel quantifying emotion's impact on conversation quality, contributing findings to manuscript preparation

Florence Nightingale Hospital, Istanbul, Turkey

Shadowing Intern

August 2024 - September 2024

- Observed neurological examinations and pre/post-operative consultations for neurodegenerative disease and epilepsy cases, interpreting multi-modal clinical imaging (CT, MRI, EEG) to support diagnostic case reviews

Acibadem University Medical School and Engineering Faculty, Istanbul, Turkey

Shadowing/Engineering Intern

August 2021 - September 2022

- Analyzed fNIRS/fMRI data from cognitive protocols (n-back, Stroop, Go/No-Go) using ANOVA, t-tests, and regression, contributing findings to manuscripts
- Interpreted multi-modal neuroimaging (CT, MRI, EEG) across neurodegenerative disease cases, supporting diagnostic accuracy in clinical research settings

LEADERSHIP & SERVICE

American Lung Cancer Screening Initiative (ALCSI), Hanover, NH, USA

Chapter President

May 2025 - Current

- Founded Dartmouth's chapter of a national non-profit, mobilizing 20+ volunteers and partnering with Dartmouth Hitchcock Medical Center to expand lung cancer screening for high-risk populations
- Directed 10+ outreach events delivering early detection education and screening resources across the New England region

PUBLICATIONS

- **Neural and Partisan Dynamics of "Warm Glow" Influence on Pro-Environmental Behavior - CSU Journal of Sustainability and Climate Change (accepted, September 2025).** Synthesized 40+ peer-reviewed articles on neural, behavioral, and political drivers of consumer decision-making to identify levers for pro-environmental behavior
- **Neuroscience Handbook - Neuroscience 101 (Caretta Books, 1st ed., November 2022).** Authored and published an illustrated primer translating complex neuroscience into accessible language for a general audience.

SKILLS & CERTIFICATIONS

- **Skills:** Lab - Western Blotting, IHC, PCR, Gel Electrophoresis, SDS-PAGE, BCA/Bradford, Differential Centrifugation, Microscopy (Confocal, Fluorescence, Phase Contrast, DIC, Brightfield). Synthesis/Instrumentation - NMR (1D/2D $^1\text{H}/^{13}\text{C}$), Cryo-EM, X-ray Crystallography, GC-MS, IR & UV-Vis, Chromatography (Affinity, Ion Exchange, Gel Filtration, Column, TLC), Distillation, Recrystallization, Refluxing, Rotary Evaporation. Data/Computation - Python (HMM, pipelines), MATLAB, R, Stata, Excel (ANOVA, regression, t-tests), ImageJ-Fiji, Qualtrics. Structural/Modeling - PyMol, Chimera, CryoSPARC, SnapGene, ChemDraw.