

# Can Kam

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## EDUCATION

<b>Dartmouth College</b> , Hanover, NH, USA	June 2027
<i>Bachelor of Arts, Major in Neuroscience and Biological Chemistry, Minor in Music:</i>	GPA: 3.61/4.00
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	
<b>University of Oxford, Trinity College</b> , Oxford, UK	January 2026 - March 2026
Coursework: Enzymes, Neuropharmacology and Neurodegenerative Diseases	
<b>Uskudar American Academy High School</b> , Istanbul, Turkey	June 2023
Honors/Awards: Silver Medal at International British Biology Olympiad (BBO)	GPA: 96.11/100   IB Diploma Grade: 42/45
Activities: President of Music Club, Neuroscience Club, and Health and Medicine Club	

## RESEARCH & WORK EXPERIENCE

<b>Yeh Lab at Dartmouth Geisel School of Medicine</b> , Hanover, NH, USA	June 2025 - Current
<i>Undergraduate Research Assistant</i>	
- Investigated the impact of prenatal alcohol exposure on amyloid protein processing in transgenic and non-transgenic mouse models, testing whether early-life disruptions to $\gamma$ -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 $\gamma$ -secretase activity and neuroinflammatory markers via ImageJ-Fiji	
<b>Dartmouth Initiative for Research on Energy Communication Transformation (DIRECT) Lab</b> , Hanover, NH, USA	March 2025 - Current
<i>Undergraduate Research Assistant</i>	
- 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)	
<b>Novartis</b> , Istanbul, Turkey	December 2025
<i>Clinical Operations Intern</i>	
- 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	
<b>Dartmouth Social Identity and Dialogue (SID) Lab</b> , Hanover, NH, USA	September 2024 - September 2025
<i>Undergraduate Research Assistant</i>	
- 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	
<b>Florence Nightingale Hospital</b> , Istanbul, Turkey	August 2024 - September 2024
<i>Shadowing Intern</i>	
- 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	
<b>Acibadem University Medical School and Engineering Faculty</b> , Istanbul, Turkey	August 2021 - September 2022
<i>Shadowing/Engineering Intern</i>	
- 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

<b>American Lung Cancer Screening Initiative (ALCSI)</b> , Hanover, NH, USA	May 2025 - Current
<i>Chapter President</i>	
- 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

<b>Neural and Partisan Dynamics of "Warm Glow" Influence on Pro-Environmental Behavior: A Multimodal Review</b>	September 2025
<i>CSU Journal of Sustainability and Climate Change (manuscript under review; submitted September, 2025)</i>	
- Reviewed and synthesized 40+ peer-reviewed sources examining neural, moral, and partisan dynamics driving pro-environmental behavior	

<b>Neuroscience Handbook - Neuroscience 101, Caretta Books, 1st ed.</b>	November 2022
- Authored an illustrated neuroscience primer covering neural systems, synaptic plasticity, and cognitive behaviors, available on personal website	

## SKILLS & CERTIFICATIONS

- <b>Laboratory Techniques:</b> Western Blotting, Immunohistochemistry (IHC), PCR, Gel Electrophoresis, SDS-PAGE, BCA/Bradford Assay, Differential Centrifugation, Microscopy (Confocal, Fluorescence, Phase Contrast, DIC, Brightfield)
- <b>Chemical Synthesis &amp; Instrumentation:</b> NMR (1D/2D $^1\text{H}/^{13}\text{C}$ ), Cryo-EM, X-ray Crystallography, GC-MS, IR & UV-Vis Spectroscopy, Chromatography (Affinity, Ion Exchange, Gel Filtration, Column, TLC), Distillation, Recrystallization, Refluxing, Rotary Evaporation
- <b>Data Analysis &amp; Computation:</b> Python (HMM modeling, data pipelines), MATLAB, R, Stata, Excel (ANOVA, regression, t-tests), ImageJ-Fiji, Qualtrics
- <b>Structural Biology &amp; Molecular Modeling:</b> PyMol, Chimera, CryoSPARC, SnapGene, ChemDraw
- <b>Certifications:</b> CITI Program – Group 2: Social/Behavioral Research (Aug 2024 – Aug 2027; ID 64434490)