

Aditi Malpure

Education

University of Connecticut

Storrs, CT, Conferred May 10th, 2026

Bachelor of Science: Major, Molecular and Cellular Biology; Minor, Psychological Sciences

STAMPS Scholar; Specialized Program In Medicine (BS/MD), Honors Student

GPA: 3.93/4.0; Dean's List Fall 2023-Spring 2026

Research Experience

Connecticut Children's Medical Center

Hartford, CT, Sep. 2025-Present

Research Coordinator

Dec. 2025-Present

- Writing an independent Institutional Review Board (IRB) protocol to create a survey study analyzing pediatric support systems and their role in suicide prevention as a part of the suicide prevention team
- Consulting with a team of biostatisticians, psychologists and clinical physicians to provide expert opinions on study design and data analysis
- Creating a REDcap survey to enroll patients in the study

Clinical Research Assistant- Suicide Prevention Team

Sep. 2025-Present

- Enrolled patients in a behavioral health study under Dr. Steven Rogers in the emergency department to screen for potential behavioral health concerns early on in life as a part of the Suicide Prevention team
- Reviewed EPIC track board and conducted chart review to determine patient eligibility according to inclusion/exclusion criteria, and to see if patients went to appointment if screened positive
- Explained study to patients and parents and obtain informed consent/assent to participate in study

Undergraduate Research Assistant

Sep-Nov. 2025

- Enrolled patients in various survey studies including safe cannabis storage, public health knowledge on genomic information, and EMS communication in the pediatric Emergency Department
- Sought out translator when needed to enroll Spanish speaking patients in studies
- Provided resources, answered questions and educated participants pertaining to topics covered by the studies

Tuncdemir Lab at UConn Health Department of Neuroscience

Farmington CT, May 2024-Present

Undergraduate Research Assistant

- Independently designed a project involving chemo genetic manipulation tactics such as Designer Receptors Exclusively Activated by Designer Drugs (DREADD) in various genetic mice line backgrounds to further understand the neuronal circuit and the role that adult born granule cells play in context discrimination deficits
- Conducted fear generalization experiments and observe effects in the MEC/LEC and hippocampal regions in mice from dentate gyrus inputs
- Experience in systems neuroscience techniques including rodent behavioral experiments such as Contextualized Fear Conditioning (CFC) tests, zero maze anxiety tests, and light/dark box tests

Heaslip Lab at UConn Department of Molecular Cell Biology

Storrs, CT, Jan. 2024-May 2024

Undergraduate Research Assistant

- Investigated the role of N-terminal proteins in actin filament regulation of Toxoplasma gondii through plasmid cloning experiments to identify potential targets for antiparasitic drug development

Mok Lab at UConn Health- Department of Molecular Cell Biology

Farmington, CT, Mar. 2022-Aug. 2023

Research Intern

- Researched antibiotic persistence of different stressors placed on strains of E. coli to improve prescription drugs
- Mastered lab techniques such as gel electrophoresis, PCR, making agar plates, autoclaving, and plasmid cloning
- Participated in the National Agar Art competition and presented findings to lab group

Presentations

- Frontiers in Undergraduate Research Poster Exhibition, University of Connecticut, Storrs, CT, *April 2026*. **Malpure, Aditi**. "Contribution of Adult Hippocampal Neurogenesis to Fear Generalization and Discrimination." (Poster presentation)
- Stanford Research Conference 2026, Stanford University, Stanford, California, *April 2026*. **Malpure, Aditi** "Contribution of Adult Hippocampal Neurogenesis to Fear Generalization and Discrimination." (Poster presentation)
- National Undergraduate Conference at Brown 2026, Brown University, Providence, RI, *April 2026*. **Malpure, Aditi; Stella Garson; Halanda Nguyen**. "Feasibility and Acceptability of Tablet-based Behavioral Health screening in the Pediatric Emergency Department and Referrals to Care Coordination." (Oral Presentation)
- National Undergraduate Conference at Brown 2026, Brown University, Providence, RI, *April 2026*. **Malpure, Aditi**. "Contribution of Adult Hippocampal Neurogenesis to Fear Generalization and Discrimination" (Oral Presentation)
- Frontiers in Undergraduate Research Poster Exhibition, University of Connecticut, Storrs, CT, *April 2025*. **Malpure, Aditi**. "Fear Generalization in Rodents and its Implications in Post Traumatic Stress Disorder-like Symptomatology" (Poster presentation)
- Neuroscience Program Retreat Exhibition, UConn Health Department of Neuroscience, Farmington, CT, *May 2025*. **Malpure, Aditi** "PTSD-like context discrimination deficits in male and female mice" (Poster presentation)

Awards and Grants

2025 Summer Undergraduate Research Fund (SURF) recipient

- Awarded \$5500 from the University of Connecticut through a competitive application process to support an independent research project in collaboration with the Tuncdemir Lab

STAMPS Scholar- University of Connecticut

- One of three recipients for a highly selective national 4-year full-ride scholarship
- Given to scholars demonstrating academic excellence, leadership, and community service

Girl Scout Gold Award Recipient 2023

- Awarded for the "Recycle Right" project, which created and distributed 1,000+ educational recycling stickers for residential bins to improve proper waste sorting; delivered presentations at local elementary schools, town events, and town hall.
- Collaborated with CT DEEP officials, town mayor, state legislators, and school administrators to expand project impact

Skills

Wet Laboratory Skills: Gel electrophoresis, Polymerase chain reaction (PCR), Cryostat, Perfusion surgery, Mice handling, Genotyping mice, Intraperitoneal (I.P) injections in mice, Scruffing mice, Fluorescent microscopy, Cloning, Histology analysis, Immunostaining

Clinical Research Skills: IRB protocol writing and compliance, REDCap, HIPAA compliance, EPIC proficiency, Patient Enrollment

Computer: MS Excel, Office, PowerPoint, Word; ImageJ, ANY-maze software, VideoFreeze by MedAssociates software, BioRender poster builder

Certifications

Emergency Medical Technician (EMT) from National Registry Emergency Medical Technician (NREMT) (2024, recertified 2026), CPR+ Basic Life Support (BLS) recertified (2026), QPR certified(2026), Seal of Biliteracy in Hindi and Marathi (2023)

Clinical Experience

Tolland Fire Department

Tolland, CT *Dec. 2024-Present*

Emergency Medical Technician (EMT)

- Provide patient care and life support in emergencies by conducting assessments, triage, and medical interventions while operating essential medical equipment in a rural town setting. 324 hours (as of Dec 2025)
- Volunteer in community service events and participate in other town events, open houses, parades, and displays

Trinity Health of New England

Hartford, CT *Aug. 2025-Present*

Emergency Medical Technician (EMT)

- Provide patient care during transfer cases and emergencies and in an urban setting, 180 hours (as of Dec 2025)

Rao HospitalPune, Maharashtra, India *June 2024-Aug. 2024**Intern*

- Shadowed multiple doctors in the hospital's outpatient departments including OB/GYN's, internal medicine, pediatrics, neurology, family medicine and orthopedics (150 hours)
- Took vitals/blood samples in ICU/ER and observed OR operations/procedures including hysterectomies, craniotomies, hip replacements, incisions and drainages (200 hours)
- Discussed differences between Indian and US healthcare systems with practicing clinicians

Shadowing

Various Locations and Dates

- Shadowed Pediatrician Dr. Anton Alerte at the Burgdorf Clinic for 20 hours (*Dec. 2024- Jan. 2025*)
- Shadowed Pediatric Psychiatrist Dr. Pragya Verma at Naugatuck Joshua Center for 40 hours (*June 2026*)
- Shadowed Pediatric Emergency Physician Dr. Steven Rogers and Nurses at Connecticut Children's Medical Center (CCMC) Emergency Department (ED) for 40 hours (*Oct. 2025-Dec. 2025*)
- Shadowed Pediatric ED Social Worker Usha Kaul at CCMC ED for 60 hours (*Mar. 2026-June 2026*)

Leadership and Activities**Organic Chemistry**Storrs, CT *Jan. 2025-Present**Teaching Assistant*

- Attended lectures and held weekly office hours to mentor college students with organic chemistry content
- Created practice problems and worksheets to assist with class material

Camp Kesem at UConnStorrs, CT *Sep. 2023-Present**Co-Director, Camp Counselor*

- Lead UConn's chapter of the national nonprofit Kesem organization, overseeing the executive board and weekly meetings
- Direct and plan fundraising initiatives with a \$40,000 annual goal to support a free, weeklong summer camp for children whose parents have been diagnosed with cancer
- Meet regularly with the national program coordinator to discuss chapter progress, review training strategies, and ensure alignment with national goals

Hindu YUVA at UConnStorrs, CT *Sep. 2023-Present**Cofounder & Co-President*

- Supervise planning events that educate and connect collegiate students with Hindu values and ideals through poojas, prayers, community service events, and general body meetings
- Represent UConn's chapter at national summits and regional conferences to strengthen leadership skills and foster connections within the national Hindu YUVA network
- Co-founded and built the organization by navigating university policies, completing establishment procedures, and securing funding through the Undergraduate Student Government (USG)
- Managed elections, resolved conflicts, and set up professional communication within the organization
- Oversee internal committees and logistics to ensure coordination and execution of chapter initiatives

Big Brother Big SistersWindham, CT *Jan. 2024-Present**Site Manager**Sep. 2025- Present*

- Manage all volunteers and logistics of the current site including documentation of volunteer hours, transportation to and from the site, meetings and communication with management in Community Outreach at UConn

*Volunteer**Jan. 2024- Present*

- Mentored children with special needs through reading, educational games, arts and crafts, and homework support.

UConn Jhalak Dance TeamStorrs, CT *Sep. 2023-Present**Member*

- Practiced 11-15 hours a week to perform Bollywood-hip hop, Indian classical dance at national intercollegiate competitions

Aditi's Deluxe Treats Baking BusinessSouth Windsor, CT *Aug. 2022- Present**Founder and Baker*

- Launched a home-based baking business, fulfilling custom orders for cakes, cupcakes, cake pops, and cookies
- Created original recipes incorporating Indian-inspired flavors, including Rasmalai and Gulab jamun cakes

- Participated in national cake decorating competitions and won 1st place in state cake decorating competitions through Family, Career and Community Leaders of America (FCCLA)