Mishree Narasaiah

mishnar@unc.edu | LinkedIn | Personal Website

EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC — Fall 2025 - Present
Bachelor of Science, Neuroscience — Expected Graduation: May 2029
GPA: Unreleased

EXPERIENCE

UT Health Austin's Mitchel and Shannon Wong Eye Institute, Austin, TX — Jun 2024-Jul 2024
Shadowing Intern

- Shadowed ophthalmologist Dr. Eileen Bowden, learning about ophthalmologic diagnoses and potential treatments.
- Distributed "eye care kits" to patients, developing soft skills in tactful and empathetic communication.
- Discovered my interest in the field of neuro-ophthalmology, which introduced me to a potential career pathway that combined my two strongest interests in healthcare: ophthalmology and neurosurgery.

BLU Dental, Austin, TX — Nov 2022-Nov 2023
Clinical Intern

- Shadowed dentists, hygienists, and orthodontists while gaining hands-on experience handling dental tools and managing clinical paperwork.
- Obtained patient vitals, sterilized and packaged dental tools, and cleaned and set up rooms between patient procedures.

RESEARCH AND PUBLICATIONS

Hantman Lab @ UNC Neuroscience Center, Chapel Hill, NC — Aug 2024-Present
Paid Undergraduate Research Assistant

- Exploring neural mechanisms of post-stroke recovery in skilled motor control and movement in model mice via a reach and grab task.

Exploring pheromone-based communication in snails, Austin, TX — Dec 2024-March 2025
Independent Behavioral Biology Research

- Research Question: How does pheromone-based communication affect trail-following in *Otala lactea* and *Bulimulus guadalupensis* as measured by the number of snails that follow a mucin trail through a Y-maze over a three-hour period?
- Aim: To explore how communication via snails' mucin trails influences trail-following behavior in the two species to determine whether pheromones influence mate and food-finding, as well as whether this behavior impacts species-specific survival success and aggregation.

Exploration of preventative chemicals in contact lens infections, Austin, TX — Jan 2024-Dec 2024
Independent Biology Research

- Research Question: To what extent do various contact lens solutions (saline, multipurpose solution, and hydrogen peroxide) inhibit the number of colonies *Staphylococcus epidermidis* grown on silicone hydrogel contact lenses at different stages of the disinfecting technique (rub & rinse and storage), measured by colony count over 24 hours using the Rodac imprint method on TSA plates?
- Presented at the International Young Researchers' Conference at Columbia University in December, 2024
  Paper DOI | Poster Link

Biomedical Engineering Research, Austin, TX — Jun 2024-Jul 2024
Intern @ UT Austin's Biomedical Engineering Lab

- Aim: To utilize the novel Type 1 Secretion System (T1SS) developed for use in Gram-negative bacteria to induce the secretion of Eglin C, a pharmacologically active elastase inhibitor which has been shown to inhibit matriptase, a protease correlated with cancer progression that plays an essential role in the metastatic process of cancer cells in multiple cancer pathways. Our aim was to achieve the large-scale secretion of Eglin C, as it has become a major interest in biotherapeutics for cancer.
- Worked under Dr. Katie Hansen and undergraduate student mentors to complete the project and presented my poster I crafted at the concluding symposium.
  Poster Link

From Seizure to Surgery: A Battle with a Cavernous Hemangioma, Austin, TX — Jun 2023-Dec 2023
Health Narrative

- Aim: I worked with a friend undergoing treatment for a cavernous hemangioma to write this health narrative and tell her story. After an immersive 7 months, I curated this health narrative to accurately and impactfully convey her experience based on independent research.
- Presented virtually at the International Young Researchers' Conference held in Tokyo, Japan.
  Paper DOI

LEADERSHIP AND COMMUNITY INVOLVEMENT

Remote Area Medical (RAM), Chapel Hill, NC Aug 2025-Present

Community Host Group Networking Lead

- Working within UNC Chapel Hill's RAM chapter on a longitudinal project to establish our own remote clinic involving experienced physicians and student volunteers in Chapel Hill to attend to patients in need with minimal costs.
- Involved in communication with RAM headquarters, local physicians, medical schools, and an active volunteer at other RAM clinics.

SKILLS AND CERTIFICATIONS

Certifications:

Biotechnician Assistant Credentialing Exam by Biotility

Electrocardiogram Technician by NHA

Languages:

Native Fluency	**Conversational Fluency**	**Working Fluency**
Hindi	Spanish	Telugu
English		Kannada

References available upon request