

Isshori Gurung

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EDUCATION

Trinity College, Hartford, CT

May 2025

B.S. in Honors Anthropology & Neuroscience

WORK EXPERIENCE

Tufts Medical Center, *Clinical Research Coordinator I*, Boston, MA

July 2025 - January 2026

- Oversee research project design and implementation of three studies within Ophthalmology Department.
- Handled participant recruitment, informed consent, data collection, data entry & documentation for each study.
- Assessed and reviewed potential patients and eligibility for inclusion in a particular protocol based on protocol requirements.

Riverwoods Manchester, *Licensed Nursing Assistant*, Manchester, NH

June 2021 – January 2025

- Recorded vital signs of numerous residents, administered therapeutic treatments, and followed individualized care plan for more than 50 residents.
- Accumulated over 1,000 clinical hours while collaborating closely with co-workers to ensure quality care.

Shari Roth MD LLC, *Ophthalmologist Assistant*, Hartford, CT

September 2024 - December 2024

- Conducted visual field and OCT test on patients with glaucoma and macular degeneration.
- Gained a total of 45 clinical hours.

Trinity College, *Lab Teacher's Assistant*, Hartford, CT

September 2022 - May 2024

- Facilitated learning for a diverse group of 18 students as a Teaching Assistant for Intro Chemistry I & II by providing expert guidance and feedback during experiments.
- Graded assignments and provided assignment feedback.

RESEARCH EXPERIENCE

Perception Lab, *Research Assistant*, Hartford, CT

May 2023 - May 2025

- Created a computational pipeline and measured the change of pupil area with eye tracker when a peripheral cue is presented/excluded.
- Implemented deep learning models during the spring of junior year, by using Python and RStudio to statistically analyze data.
- Published a manuscript regarding the modulatory role of expectations on pupil area.

Hartford Hospital - Ayers Neuroscience Center, *Research Assistant*, Hartford, CT

May 2023 - May 2025

- Entered data of over 200 patients with epilepsy for a new system implemented by the hospital and streamlined information transfer into organized platform Cranial Cloud.
- Published in manuscript regarding data analysis of the nearly year-long data entry, examining patient survey participation and survey outcomes, and investigating patient-type-specific data trends.

- The Jackson Laboratory**, *Academic Year Fellow*, Bar Harbor, ME September 2024 - May 2025
- Expanded the original computational pipeline to conduct further analysis on the biological function of the genetic variants of interest Cholesteryl Ester Transfer Protein. Leveraging Python, SQL, & R to conduct pheWAS analysis on CETP*1405V* using the All of Us database.
 - Used transcriptomics to understand what is having a big effect on the results found from the summer.
- Anthropology Department**, *Lead Researcher*, Hartford, CT September 2024 - May 2025
- Investigated menstrual inequity at Trinity College by examining current menstrual equity initiatives and their impact on addressing period poverty through interviews and spatial analysis.
 - Submitted an IRB proposal and did an in-depth literary analysis of menstrual inequity.
- The Jackson Laboratory**, *Research Intern*, Bar Harbor, ME June 2024 - August 2024
- Worked in the Carter Lab under mentorship of Dr. Tamar Abel on the application of a computational pipeline to understand the biological processes for late-onset Alzheimer's Disease, studying the CETP variant by utilizing R.
 - Presented in Trinity College Summer Symposium and ABRCMS 2024, where I was awarded the travel and presentation award.
- Anthropology Department**, *Research Assistant*, Hartford, CT January 2023 - May 2023
- Conducted object analysis study on Chinese Object Assemblage, as well as learning about Chinese History and Culture.
- Connecticut's Children Hospital**, *Petit Fellow*, Hartford, CT September 2022 - December 2022
- Studied injury and violence prevention with Connecticut Children's experts and virtually shadowed staff members in different clinical areas throughout Connecticut Children's.
 - Presented a research proposal on intimate partner violence in South Asian communities to hospital administration, recommending potential initiatives for implementation as a Petit Fellow.
- Ketogenic Lab**, *Research Assistant*, Hartford, CT May 2022 - July 2022
- Manipulated levels of adenosine kinase to control amounts of adenosine present to see the effects of pain sensitivity and aggression through social dominance and hot plate tests on mice of different genders, weights, and genotypes.

PUBLICATIONS

- Parrella, M. A., **Gurung, I.**, & Grubb, M. A. (2025). Luminance matching in cognitive pupillometry is not enough: The curious case of orientation. *eneuro*, 12(11).
- Martz, G., **Gurung, I.**, & Li, Y. H. (2025). Implementation of clinic-based data capture in a real-world epilepsy clinic. *Epilepsy & Behavior*, 172, 110730.
- Gurung, I.**, & Guzman, A. (2025). Broken Dispensers: The Status of Menstrual Inequity at Trinity College. Trinity Student Scholarship. Trinity College Digital Repository, *JSTOR*, <https://jstor.org/stable/community.39519983>.

CONFERENCES

- Parella, M.A., **Gurung, I.**, Grubb, M. A. (2025, May 16-22). Luminance matching in cognitive pupillometry is not enough: The curious case of orientation [Poster presentation]. Vision Sciences Society, St. Pete Beach, FL. <https://www.visionssciences.org/>
- Parella, M.A., **Gurung, I.**, Grubb, M. A. (2024, November 21). The predictive pupil: Does implicitly signaling the prior probability of an abrupt onset modulate pupil area? Poster presentation]. Object Perception, Attention, and Memory (OPAM), New York City, NY. <https://www.opamconference.com/>
- Gurung, I.**, Abel, T., Kumar, S., Valenzuela, R., & Carter, G.W. (2024, November 13-16). Alzheimer's age-dependent molecular signatures in individuals with the loss of function CETP I405V variant [Poster Presentation]. ABRCMS, Pittsburgh, PA. <https://abrcms.org/>
- Gurung, I.** & Parella, M.A., Crotty, N., Grubb, M. A. (2024, May 16-22). Deep learning and the allocation of covert exogenous spatial attention [Poster presentation]. Vision Sciences Society, St. Pete Beach, FL. <https://www.visionssciences.org/>
- Gurung, I.** & Parella, M.A., Crotty, N., Grubb, M. A. (2024, April 21). Deep learning and the allocation of covert exogenous spatial attention [Poster presentation]. NEURON, Hamden, CT. <https://www.qu.edu/events-calendar/neuron-conference-20232024-04-21-09-00-am/>

PRESENTATIONS

- Gurung, I.**, Abel, T., Kumar, S., Valenzuela, R., & Carter, G.W. (2025, May). Phenome wide associations in individuals with CETP loss of function variants [Poster presentation]. AYF Symposium, The Jackson Laboratory, Farmington, CT. www.jax.org
- Gurung, I.**, Abel, T., Kumar, S., Valenzuela, R., & Carter, G.W. (2024, September). Alzheimer's age-dependent molecular signatures in individuals with the loss of function CETP I405V variant [Poster presentation]. Summer Research Symposium, Hartford, CT. <https://www.trincoll.edu/srp/>
- Gurung, I.**, Abel, T., Kumar, S., Valenzuela, R., & Carter, G.W. (2024, August 8). Alzheimer's age-dependent molecular signatures in individuals with the loss of function CETP I405V variant [Oral Presentation]. The Jackson Laboratory, Bar Harbor, ME. www.jax.org
- Gurung, I.** & Parella, M.A., Grubb, M. A. (2023, September 21). Pupillometry Reliably Indicates the Modulatory Effects of Covert Exogenous Cues [Poster presentation]. Summer Research Symposium, Hartford, CT. <https://www.trincoll.edu/srp/>
- Gurung, I.** & Toma, N. & Ghaloo, M., Ruskin D. (2022, September 21). Effects of Manipulating Adenosine on Mouse Behavior [Poster presentation]. Summer Research Symposium, Hartford, CT. <https://www.trincoll.edu/srp/>

LEADERSHIP & ACTIVITIES

NH Food Bank, *Volunteer*, Hooksett, NH

January 2024 – Present

- Volunteered on Friday mornings at the Meal Packing events to aid participants in managing their chronic health conditions for 2 hours.

Friends of MSF, *Vice-President*, Hartford, CT

September 2023 - May 2025

- Participated in organizing and volunteering for blood drives and community outreach events in collaboration with local healthcare organizations and Trinity students.
- Attended weekly meetings focused to plan for future events.

- Neuroscience Club, President, Hartford, CT** January 2023 - May 2025
- Executed community outreach events, like Brains and Barbeque that hosts high-schoolers from Hartford on campus to do some neuroscience/STEM-related activities (i.e. sheep dissection), a campus tour, and a BBQ, to encourage interest in Neuroscience.
 - Hosted panels featuring experts to provide mentorship and career insights.
 - Raised \$3000 dollars to fund our outreach events.
- JELLO, Eboard, Hartford, CT** January 2023 - May 2025
- Volunteered for 4 hours every other week in community service projects with many different Hartford organizations, such as the Wadsworth Atheneum and the Northside Institutions Neighborhood Alliance (NINA), in Hartford between the fall and spring semesters on service Saturdays.
- Fundraiser, Organizer, Hartford, CT** January 2025 – May 2025
- Organized a fundraiser that raised \$3,200, to support The Oda Foundation initiatives in healthcare, education, and community support in Kalikot, Nepal.
 - Used bake sales to supplement fundraising efforts.
- Club Boxing, Mentoring/Tutoring Coordinator, Hartford, CT** March 2022 - December 2024
- Affiliated with Charter Oak Boxing Academy (COBA), a non-profit organization that is dedicated to academically motivate and provide mentorship Hartford's COBA youth.
 - Started the mentoring and tutoring program, with 40 volunteers in attendance, for Hartford's COBA youth in Fall 2024.
 - Created events for the COBA youth and organized the annual boxing competition, attended by multiple colleges, held at Trinity College as an event coordinator from 2022-2024.
- Underrepresented Students in Neuroscience Mentorship, Mentor** September 2023 - May 2024
- Participated as a mentee and was a mentor in a program where underrepresented first and second-year students are matched with upperclassmen who can provide long-term support and guidance to help these students successfully navigate their undergraduate degree.
- CHER, Tutor, Hartford, CT** September 2023 - May 2024
- Tutored and mentored to high school students from low-income areas, in different subjects from Spanish to Precalculus, at Hartford Magnet Trinity College Academy.
- South Asian Student Association, Co-President, Hartford, CT** November 2021 - May 2023
- Co-President of South Asian Student Association for the year of 2022-23 and Social Chair during the year of 2021-22.
 - Introduced the diversity of cultures in South Asia to the bigger community of Trinity College by organizing events, such as Holi & Losar, that garnered the attendance of 300+ people and volunteered for 10 hours through community fundraising efforts.

HONORS & AWARDS

- Riverwoods Scholarship Award** 2023-2025
- Awarded by residents to support staff in their career endeavors.
- Dixon Turcott Educational Fund of the New Hampshire Charitable Foundation Award** 2021-2025
- Assisting worthy young men and women residing in Merrimack County to obtain a college education of medical, scientific, or professional nature.
- Thomas and Charlotte Valentine Taylor Educational Foundation Award** 2021-2025
- Awarded to students who graduated in the top third of their class at a private, independent secondary school.

The Frederick K. Errington Prize	2025
<ul style="list-style-type: none"> This prize is given to a graduating anthropology student who in the judgment of the department has demonstrated superior academic achievements and intellectual engagement in the discipline. 	
Fulbright Nepal SEMIFINALIST Award	2025
<ul style="list-style-type: none"> Recognized for academic excellence and potential to promote cross-cultural understanding. 	
ABRCMS Poster Presentation Award	2024
<ul style="list-style-type: none"> Awarded in the Undergraduate Poster Presentation in Computational Biology at the 2024 Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) in Pittsburgh, PA. This award is given to the top 16% of presenters, highlighting excellence in research, presentation, and scientific impact. 	
ABRCMS FULL Travel Award	2024
<ul style="list-style-type: none"> Awarded to under-graduate and graduate students to attend the Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS). 	
Trinity College Summer Research Grant	2022, 2023
<ul style="list-style-type: none"> Applied for and received 10 weeks. \$4500 stipend and housing for on-campus research 	

SKILLS AND INTERESTS

- Computer Skills:* PsychoPy, R, PyTorch, SQL, Python
- Language Skills:* Nepali- fluent

CERTIFICATION

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| <ul style="list-style-type: none"> Certified Nursing Assistant | 2021 – 2025 |
| <ul style="list-style-type: none"> Medicine and Allied Health | 2024 |
| <ul style="list-style-type: none"> Clinical Neuroscience | 2023 |