

DUC NGUYEN

EDUCATION

New York University, New York, NY
PhD, Neural science

Aug 2022 - current

University of California Berkeley, Berkeley, CA
B.A., Psychology
Graduation with Highest Honors and High Distinction
Thesis title: *Role of Compassion in Decision-making*

December, 2019

PROFESSIONAL AND RESEARCH EXPERIENCES

Postbac trainee, Bethesda, MD
Spatial Navigation and Memory Unit, NINDS, NIH
PI: Dr. Yi Gu

Aug 2020 - July 2022

- Lead a research project on understanding how multisensory information is encoded in the medial entorhinal cortex during spatial navigation
- Collaborate with engineer team to build new setup that can deliver auditory stimulus in virtual reality
- Learned and applied several techniques including: mouse survival surgery; training mouse in virtual reality; in-vivo calcium imaging using two-photon microscope
- Designed tasks to (1) identify existence of auditory cue cells; (2) investigate auditory and visual cue cells populations
- Analyze mice's behavioral performance and neural activities

Undergrad Research Assistant, Berkeley, CA
Berkeley Social Interaction laboratory, UC Berkeley
PI: Dr. Dacher Keltner

Jan 2018 - Dec 2019

- Coded behavioral emotions under training from grad student Joseph Ocampo
- Helped with data collection: checking survey measurement, distributing surveys, organizing data, and preprocessing data
- Conducted independent honors thesis on the effect of compassion on decision-making in an interpersonal context with mentoring from Joseph and Dr. Keltner

Undergrad Research Assistant, Berkeley, CA
Center for Human Sleep Science, UC Berkeley
PI: Dr. Matthew Walker

Jan 2019 - Jul 2019

- Helped data collection by monitoring participants overnight
- Set up EEG on participants and monitor signal quality during recording

SKILLS

- Data Analysis - proficient in analyzing, visualizing and interpreting data using R, MATLAB, Python
- Research tools - Psychtoolbox; Virmen; Qualtrics; Amazon MTurk
- Neuroimaging - operating and setting up equipment including: EEG, in-vivo calcium imaging two-photon microscope
- Animal training - behavioral training and recording neural activity in rodents within laboratory settings

PRESENTATIONS & AWARDS

- ★ Nguyen, Duc & Gu, Yi (2021, Apr): "*Spatial Navigation using Auditory Cues in head-fixed mice*". Presented at NIH postbac poster day, NIH.
- ★ Nguyen, Duc; Ocampo, Joseph, & Keltner, Dacher (2019, May). "*Role of Compassion in Decision Making*". Presented at the 2019 Annual Psychology Department Poster Session, Berkeley, CA.
- ★ Summer Undergraduate Research Fellowship (SURF) scholar (2019 summer)