

APOORVA SHARMA

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EDUCATION

PhD Cognitive Psychology Yale University Advisor: Dr. Sam McDougle	<i>2023-Present</i>
MSc Cognitive Science Indian Institute of Technology, Gandhinagar Advisor: Dr. Pratik Mutha GPA: 9.70/10.00 Gold Medalist	<i>2020-2022</i>
BSc Life Sciences Ramjas College, University of Delhi GPA: 8.93/10.00 High Honors Distinction	<i>2017-2020</i>
Senior Secondary School The Khaitan School, Noida Best of 4 Subjects: 95.25% Certificate of Excellence	<i>2014-2016</i>

RESEARCH EXPERIENCE

Research Assistantship Contribution of Explicit and Implicit Mechanisms in Motor Learning Center for Cognitive and Brain Sciences, IIT Gandhinagar, India Advisor: Dr. Pratik Mutha Awarded Sabarmati-Bridge Fellowship 2022 (declined in favor of other opportunities)	<i>July 2022 – July 2023</i>
Master's Thesis Role of Implicit Mechanisms in Savings in Sensorimotor Adaptation IIT Gandhinagar, India Advisor: Dr. Pratik Mutha	<i>August 2021 – May 2022</i>
Research Internship Burnout Due to Online Teaching and Its Effects on Cognitive Functioning During COVID-19 Institute of Aerospace Medicine, Indian Air Force, Bengaluru, India Advisor: Dr. Sowgandhi Chaturvedulla	<i>May 2021 - August 2021</i>
Research Internship Effects of Stress on Long-Term Depression in Rat Hippocampus. CHIT1 as a Putative Marker for ALS and Its Role in Pathogenesis National Institute of Mental Health and Neuro Sciences, Bengaluru, India Advisor: Dr. Sathyaprabha, HOD Neurophysiology	<i>May 2019</i>

PUBLICATIONS / MANUSCRIPTS IN PREPARATION

Oza, A., Kumar, A., **Sharma, A.** & Mutha, P.K., (2024) *Limb-related sensory prediction errors and task-related performance errors facilitate human sensorimotor learning through separate mechanisms.* PLoS Biol 22(7): e3002703

Sharma, A., Kumar, A. & Mutha, P.K., *Dissociating the Contribution of Learning Mechanisms to Savings in Motor Adaptation.* (Manuscript in preparation)

CONFERENCES

Poster Presentations

Sharma, A., Kumar, A. & Mutha, P.M., *Dissociating the Contributions of Learning Mechanisms to Savings in Motor Adaptation*, Society for Neuroscience, November 2022, San Diego, USA

Sharma, A., Kumar, A. & Mutha, P.M., *Role of Implicit and Explicit Strategies in Motor Skill Relearning*, SERB Conference on Women in Science and Technology, September 2022, Gujarat, India

Talks

Sharma, A., Kumar, A. & Mutha, P.M., *Strategy Use, not implicit mechanisms, drives Savings in Motor Adaptation*, Annual Conference of Cognitive Science, December 2022, New Delhi, India

TECHNICAL SKILLS

- Data Interpretation: Eye Tracking (Tobi, Eye-Link), Electroencephalography
- fMRI Analysis (Gaussian Smoothing, DICOM Conversion using Heudiconv, FEAT GLM Pipeline)
- Data Analysis: R, SPSS
- Experiment Design: PsychoPy, PsychToolBox
- Adobe Illustrator

LABORATORY SKILLS

- Single cell recording
- Immunohistochemistry Techniques (ELISA, Immunoelectrophoresis, Immunodiffusion)
- Electrophoresis Techniques (Western Blotting)
- Chromatography, Colorimetry/Spectroscopy

TEACHING EXPERIENCE

Teaching Assistant: Evolutionary Neuropsychology

IIT Gandhinagar, India
Instructor: Dr. Fred Coolidge

March – May 2022

Teaching Assistant: Fundamentals of Neuroscience

IIT Gandhinagar, India
Instructor: Dr. Pratik Mutha

August – December 2021

WORKSHOPS AND SEMINARS ATTENDED

- Lecture Course: Non-Invasive Brain Stimulation, India EMBO & IIT Gandhinagar
- NeuroMatch Academy 2022: Computational Neuroscience
- Workshop: Proteomics using R-Programming, Council of Scientific and Industrial Research (CSIR) and Dept. of Biomedical Sciences, University of Delhi
- Workshop: Protein Purification and Chemiluminescence Imaging, University of Delhi
- Online Course: Research Design, University of North Texas

COMMUNITY SERVICE AND ACTIVITIES

- Volunteer Organizer: Brain Awareness Day
Yale University *March 2024*
- Volunteer Organizer: Graduate Interview
Yale University *February 2024*
- Organizer: Brain Awareness Week
IIT Gandhinagar, India *January 2021*
- Co-Founder & Volunteer: *August 2017 – August 2018*
Enactus Ramjas (Student-led Non-Profit Organization), New Delhi
Co-founded and led initiatives addressing the water crisis and affordable healthcare for underserved communities
- Organizer: Blood donation camps and awareness marches *2016*
Interact Club, Rotary Noida

LANGUAGE PROFICIENCY

Hindi (Native); **English** (Fluent)