

Ammar I Marvi

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EDUCATION

Massachusetts Institute of Technology

Advanced Study Program

2023 –

Cambridge, MA

University of California, Los Angeles

B.S. in Neuroscience, minor in Statistics & Data Science, Arabic & Islamic Studies

2023

Los Angeles, CA

EXPERIENCE

Massachusetts Institute of Technology

Adv: Nancy G Kanwisher

2023 –

Cambridge, MA

- Studying the functional landscape of the human brain.

University of California, Los Angeles

Adv: Alcino J Silva

2021 – 2023

Los Angeles, CA

- Learning and memory deficits in mouse models of Noonan's Syndrome.

Cedars-Sinai Medical Center

Adv: Josh Burda

2020

Los Angeles, CA

- Molecular and cellular regulation of regenerative synaptic circuit remodeling after traumatic CNS injury.

Adv: Akil Merchant

- Studying diffuse large B-cell lymphomas and associated Hedgehog signaling in blood cancer patients.

PUBLICATIONS

Manuscripts

- Marvi, A.I., Kanwisher, N.G., Khosla, M. (2024) **Sparse components distinguish visual pathways & their alignment to neural networks.** *ICLR*

Posters

- Xu, R., ..., Marvi, A.I., ..., Richardson, M. (2024) **Dissection of functional networks in the human brain using electrical stimulation and fMRI.** *Society for Neuroscience*
- Marvi, A.I.[†], Zhuang, C.[‡], Dobs, K.[‡], Kanwisher, N.G.[‡] (2024) **A single computational objective may not be sufficient for human-like face discrimination.** *Conference on Cognitive Computational Neuroscience*
- Hutchinson, S.[†], Marvi, A.I.[†], Kamps, F., Chen, E.M., Saxe, R., Fedorenko, E., Kanwisher, N.G. (2024) **An efficient multimodal fMRI localizer for high-level visual, auditory, & cognitive regions in humans.** *The Vision Sciences Society*
- Marvi, A.I., Almeida-Filho, D., Silva, A.J. (2023) **Benchmarking the tracking of cells in longitudinal miniscope recordings across sessions.** *UCLA Undergraduate Creativity & Research Showcase*

LEADERSHIP & SERVICE

DataRes

Research team

2022 – 2023

Los Angeles, CA

- Led a student research group studying ML approaches to NLP, computer vision, and diffusion model tasks.

Nu Rho Psi

External Vice-President

2021 – 2023

Los Angeles, CA

- Organized outreach and networking events, hosted research days and seminars, co-led research symposiums with UCLA faculty, taught undergraduates on neuroscience methods and journal club presentation.

BEAM

Student teacher

2021 – 2023

Los Angeles, CA

- Taught students at Title-1 elementary schools via educational STEM activities. Designed interactive and informative curricula.

UCLA Health Clinic

Cardiovascular team

2020

Santa Monica, CA

- Contributed to meta-analyses on the effect of RAAS blockers on COVID-19 patients worldwide

Bruin Review

2019 – 2020

Science writer

Los Angeles, CA

- Challenged traditionally taboo topics and encouraged civil discourse amongst UCLA students in topical science-related research.