

# Ammar I Marvi

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## EDUCATION

|   |                         |
|---|-------------------------|
| <b>Massachusetts Institute of Technology</b><br><i>Advanced Study Program</i>   | 2023 –<br>Cambridge, MA |
| <b>University of California, Los Angeles</b><br><i>B.S. in Neuroscience, minor in Statistics &amp; Data Science, Arabic &amp; Islamic Studies</i> | 2023<br>Los Angeles, CA |

## EXPERIENCE

|   |                                |
|---|--------------------------------|
| <b>Massachusetts Institute of Technology</b><br><i>Adv: Nancy G Kanwisher</i> <ul style="list-style-type: none"><li>Studying the functional landscape of the human brain.</li></ul>   | 2023 –<br>Cambridge, MA        |
| <b>University of California, Los Angeles</b><br><i>Adv: Alcino J Silva</i> <ul style="list-style-type: none"><li>Learning and memory deficits in mouse models of Noonan's Syndrome.</li></ul>   | 2021 – 2023<br>Los Angeles, CA |
| <b>Cedars-Sinai Medical Center</b><br><i>Adv: Josh Burda</i> <ul style="list-style-type: none"><li>Molecular and cellular regulation of regenerative synaptic circuit remodeling after traumatic CNS injury.</li></ul><br><i>Adv: Akil Merchant</i> <ul style="list-style-type: none"><li>Studying diffuse large B-cell lymphomas and associated Hedgehog signaling in blood cancer patients.</li></ul> | 2020<br>Los Angeles, CA        |

## PUBLICATIONS

### Papers

- Marvi, A.I., Kanwisher, N.G., Khosla, M. (2025) **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.<sup>†</sup>, Zhuang, C.<sup>‡</sup>, Dobs, K.<sup>‡</sup>, Kanwisher, N.G.<sup>‡</sup> (2024) **A single computational objective may not be sufficient for human-like face discrimination.** *Conference on Cognitive Computational Neuroscience*
- Hutchinson, S.<sup>†</sup>, Marvi, A.I.<sup>†</sup>, 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

|   |                                |
|---|--------------------------------|
| <b>DataRes</b><br><i>Research team</i> <ul style="list-style-type: none"><li>Led a student research group studying ML approaches to NLP, computer vision, and diffusion model tasks.</li></ul>  | 2022 – 2023<br>Los Angeles, CA |
| <b>Nu Rho Psi</b><br><i>External Vice-President</i> <ul style="list-style-type: none"><li>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.</li></ul> | 2021 – 2023<br>Los Angeles, CA |
| <b>BEAM</b><br><i>Student teacher</i> <ul style="list-style-type: none"><li>Taught students at Title-1 elementary schools via educational STEM activities. Designed interactive and informative curricula.</li></ul>  | 2021 – 2023<br>Los Angeles, CA |
| <b>UCLA Health Clinic</b><br><i>Cardiovascular team</i>   | 2020<br>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.