

Ammar I Marvi

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EDUCATION

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

EXPERIENCE

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

AWARDS

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| Spotlight distinction <i>The Thirteenth International Conference on Learning Representations (ICLR)</i> | 2025 Singapore |
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LEADERSHIP & SERVICE

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| DataRes <i>Research team</i> <ul style="list-style-type: none">Led a student research group studying ML approaches to NLP, computer vision, and diffusion model tasks. | 2022 – 2023 Los Angeles, CA |
| Nu Rho Psi <i>External Vice-President</i> <ul style="list-style-type: none">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. | 2021 – 2023 Los Angeles, CA |

BEAM

2021 – 2023

*Student teacher**Los Angeles, CA*

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

UCLA Health Clinic

2020

*Cardiovascular team**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.