Ammar I Marvi

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EDUCATION

Harvard University — 2025 –
PhD in Psychology; PI: Talia Konkle — Cambridge, MA

Massachusetts Institute of Technology — 2023 – 2025
Advanced Study Program — Cambridge, MA

University of California, Los Angeles — 2023
B.S. in Neuroscience, minor in Statistics & Data Science, Arabic & Islamic Studies — Los Angeles, CA

EXPERIENCE

Harvard University — 2025 –
Adv: Talia Konkle — Cambridge, MA
- Visual perception and cognition in intelligent systems.

Massachusetts Institute of Technology — 2023 – 2025
Adv: Nancy G Kanwisher — Cambridge, MA
- Studying the functional landscape of the human brain.

University of California, Los Angeles — 2021 – 2023
Adv: Alcino J Silva — Los Angeles, CA
- Learning and memory deficits in mouse models of Noonan's Syndrome.

Cedars-Sinai Medical Center — 2020
Adv: Josh Burda — 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

Papers

- **Marvi, A.I.**[†], Hutchinson, S.[†], Fedorenko, E., Saxe, R.R., Kamps, F.S., Regev, T.I., Chen, E.M., Kanwisher, N.G. (2025) **An efficient mulitfunction fMRI localizer for high-level visual, auditory, & cognitive regions in humans.** *Imaging Neuroscience*
- **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*
- **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

Spotlight distinction — 2025
The Thirteenth International Conference on Learning Representations (ICLR) — Singapore

Leadership & Service

DataRes   2022 – 2023
Research team   *Los Angeles, CA*
  ∗ Led a student research group studying ML approaches to NLP, computer vision, and diffusion model tasks.

Nu Rho Psi   2021 – 2023
External Vice-President   *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   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.