Ali Cy

617-866-2852 | califyn@mit.edu | https://ali.cy

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
MEng in Electrical Engineering & Computer Science — *Sep. 2025 – Present*
BSc in EECS, Minor in Literature (GPA: 4.8/5.0) — *Sep. 2022 – Present*
- <u>Teaching Assistant</u>: 6.796 Deep Learning
- EECS Coursework: 6.748 Information Theory, 6.S894 Accelerated Computing, 6.S953 Embodied Intelligence (A), 6.790 Machine Learning (A), 6.780 Inference and Information (A)
- Other Coursework: 7.05 Biochemistry (A), 18.701 Abstract Algebra (A), 8.05 Quantum Physics II (A)

PUBLICATIONS

1. Keya Hu, **Ali Cy**, Linlu Qiu, Xiaoman Delores Ding, Runqian Wang, Yeyin Eva Zhu, Jacob Andreas, Kaiming He. *ARC is a vision problem!* arXiv: 2511.14761. Preprint.

2. Zhitong Gao, Parham Rezaei, **Ali Cy**, Nataša Jovanović, Mingqiao Ye, Jesse Allardice, Afshin Dehghan, Roman Bachmann, Oğuzhan Fatih Kar, Amir Zamir. *Image generation by test-time search over tokens.* In submission to CVPR 2026.

3. **Ali Cy***, Anugrah Chemparathy*, Michael Han, Rumen Dangovski, Peter Lu, Marin Soljacic. *Studying phase transitions in contrastive learning with physics-inspired datasets.* ICML 2023 Physics4ML Workshop.

RESEARCH EXPERIENCE

MEng & Undergraduate Researcher — Feb. 2025 – Present
PI: <u>Kaiming He</u>, MIT EECS — *Cambridge, MA*
- Visual methods for abstract reasoning (ARC).
- Adaptation of diffusion models into energy-based models.

Summer Intern — Jun. 2025 – Sep. 2025
PI: <u>Amir Zamir</u>, EPFL — *Lausanne, Switzerland*
- Latent verifiers for search over images.

Undergraduate Researcher — Feb. 2023 – Feb. 2025
PI: <u>Vincent Sitzmann</u>, MIT EECS — *Cambridge, MA*
- Unsupervised optical flow estimation.

Undergraduate Researcher — Jun. 2021 – Feb. 2023
PI: <u>Marin Soljačić</u>, MIT Physics — *Cambridge, MA*
- Training dynamics of contrastive learning.
- Period of time includes high school internship.

HONORS

NSF Graduate Research Fellowship	2025
European Girls' Math Olympiad *Silver Medal*	2020

OTHER PROJECTS

1. **Ali Cy***, Kairo Morton*. *Training diffusion policies without expert data.* 6.S953 Embodied Intelligence Final Course Project, 2024.

LEADERSHIP & OUTREACH

President & Founder — Aug. 2020 – Sep. 2023
Athemath — *Online*
- Organized online math olympiad classes in which women teach women math. Currently has ∼100 students/year.
- Created and designed program. Led logistics, fundraising, staff recruitment, admissions; taught classes, ran events.