

KABIR SWAIN

kswain@mit.edu \diamond kswain98.github.io

RESEARCH INTEREST

My research experience has focused on **computer vision**, **large language models**, and **efficient scaling**.

EDUCATION

Massachusetts Institute of Technology *Expected June 2027*
Ph.D, EECS, Advised by Prof. Antonio Torralba

Massachusetts Institute of Technology *Expected May 2025*
S.M, EECS, Advised by Prof. Antonio Torralba

KTH Royal Institute of Technology *June 2023*
S.B, Electronics and Computer Engineering

RESEARCH EXPERIENCE

CSAIL, Massachusetts Institute of Technology August 2023 - Present
Graduate Researcher advised by Professor Antonio Torralba *Cambridge, MA*

CSAIL, Massachusetts Institute of Technology May 2022 - June 2023
Visiting Student working with Professor Antonio Torralba *Cambridge, MA*

CSAIL, Massachusetts Institute of Technology February 2021 - April 2022
Research Intern working with Prof. Torralba, Dr. S Li, Dr. X Puig *Cambridge, MA*

Harvard-MIT May 2020 - December 2021
Research Intern working with Prof. Karp, Prof. Joshi, Dr. Joseph *Cambridge, MA*

Harvard-MIT 2015 Summer
Research Intern working with Prof. Karp, Prof. Joshi *Cambridge, MA*

Selected Publications

Planned Submission, **Kabir Swain**, Sijie Han, Antonio Torralba, ECCV 2026

Under Submission, **Kabir Swain**, Sijie Han, Antonio Torralba, ICML 2026

Under Review, **Kabir Swain**, Sijie Han, Antonio Torralba, CVPR 2026

VirtualEnv: A Platform for Embodied AI Research, **Kabir Swain**, Sijie Han, Ayush Raina, Jin Zhang, Shuang Li, Michael Stopa, Antonio Torralba, AAAI 2026

AWARDS & HONORS

Apple inc. Student Scholarship Winner (**Top 200 worldwide**) *2014*

SKILLS

Programming Language Python, C/C++, CUDA, Javascript, Java, Swift
ML Libraries PyTorch, NumPy, Jax, TensorFlow