

Luke J. Huang

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EDUCATION

MIT

Physics + CS: 5.0/5.0 GPA

Cambridge, MA

Fall 2024 - Present

- Coursework: Distributed Systems (6.5840, G), Mathematical Statistics: a Non-Asymptotic Approach (18.656, G), Deep Learning (6.7960, G), Information Theory (6.7480 G), Inference and Information (6.7800 G), Design and Analysis of Algorithms (6.1210), Algebra I (18.701), Quantum Physics III (8.06)

EXPERIENCE

OpenAI

Member of Technical Staff (Resident)

June 2026 – Present

San Francisco, CA

- Pretraining

Applied Compute

Research Intern

Jun 2025 – Sep 2025

San Francisco, CA

- Built large-scale RL training infrastructure for out-of-distribution reasoning tasks for enterprise customers.

Han AI Lab

Researcher

Aug 2024 – Present

Cambridge, MA

- First author of [Variance Controlled Policy Optimization](#), a robust asynchronous RL algorithm delivering **2.5x** faster on long-horizon tool-use tasks. **ICML 2026**
- Co-first author of [Locality-Aware Parallel Decoding](#), a novel multi-token prediction architecture **13x** faster than previous autoregressive (AR) image generation models. **ICLR 2026 Oral, Top 1.13% of over 19,000 submissions**
- Trained low-latency generative image models to provide visual guidance to vision-language-action (VLA) systems as part of [ForeAct](#), with a +40.9% absolute improvement over the Physical Intelligence's π_0 VLA. **CVPR 2026**

PUBLICATIONS & PREPRINTS

Huang, L., Zhang, Z., Hu, Q., Yang, S., Han, S. *Stable Asynchrony: Variance Controlled Off-Policy RL for LLMs*. **ICML 2026** [Paper](#) — [Code](#)

Zhang, Z.* , **Huang, L.***, Wu, C., Yang, S., Peng, K., Lu, Y., Han, S. *Locality-aware Parallel Decoding for Efficient Autoregressive Image Generation*. **ICLR 2026 Oral, Top 1.13%**. [Paper](#) — [Code](#)

Zhang, Z., Yang, S., Hu, Q., **Huang, L.**, Hou, J., Sun, Y., Lu, Y., Han, S. *ForeAct: Steering Your VLA with Efficient Visual Foresight Planning*. **CVPR 2026**. [Paper](#) — [Code](#)

Uddin, S. Z.* , Vaidya, S.* , Choudhary, S., Chen, Z., Salib, R. K., **Huang, L.**, Englund, D. R., Soljačić, M. *AI-Driven Robotics for Free-Space Optics*. [Paper](#)

HONORS AWARDS

Putnam Top 200, 2024 U.S. IPhO Team and Gold Medalist (3rd place overall over 256 participants / 55 countries), Regeneron STS Finalist (Top 40), Math Olympiad Program (MOP) Attendee and USA(J)MO Winner, RSI Scholar (2023)