

Hanlin Zhao

CUHK AIST undergraduate | AI/ML and software engineering internships - Summer 2027

zh12104405665@gmail.com | [Website](#) | [GitHub](#) | [OpenReview](#)

Machine learning | Computer vision | Embodied AI | Vision-language-action models

Education

The Chinese University of Hong Kong

2025 - 2029 (expected)

BEng in Artificial Intelligence: Systems & Technologies

CGPA: 3.883/4.000 | Dean's List 2025/26

Relevant coursework: Recommender Systems (STAT3009); Regression Analysis (STAT3008)

Research Experience

AI Robotic Perception Lab, CUHK

Aug 2026 - Present

Undergraduate Researcher | Supervisor: Prof. Hongliang Ren

Support experimental design, run experiments, and train models for self-evolving AI research.

Research topics include self-evolving robot policies, endoscopic navigation, and robotic irrigation.

Papers and Preprints

EndoRSI: Physical-Evidence-Driven Recursive Improvement of Endoscopic Robot Policies

C. K. Ng, Y. Zhang, T. Wu, S. H. Lui, **Hanlin Zhao**, et al.

arXiv:2610.13376, 2026 | Preprint

EndoVLA-OOV: Language-Conditioned Out-of-View Target Acquisition in Robotic Endoscopy

C. K. Ng, Y. Zhang, T. Wu, Z. Tang, **Hanlin Zhao**, et al.

arXiv:2610.24747, 2026 | Under review at IEEE TRL

EICARL: Traversability-Aware Decision Making Through Bounded Attempts in Narrow-Lumen Navigation

C. K. Ng, T. Wu, L. Bai, **Hanlin Zhao**, et al.

CoRL workshop | Accepted

Selected Engineering Projects

Movie Recommendation System | Python, NumPy, pandas

Implemented biased matrix factorization and rating baselines with validation-based model selection, cold-start fallbacks, saved artifacts, and a recommendation CLI.

Background Sensitivity in CLIP | Python, PyTorch, OpenCLIP

AIST1000 seminar project evaluating frozen CLIP on 370 images with paired background interventions and bootstrap intervals; a cropping robustness benefit remains unresolved.

Leadership and Service

ICP Mentor

Sep 2026 - Present

Provide peer mentoring and transition guidance, helping fellow students navigate university life and connect with the campus community through approachable support and clear communication.

Shaw College Student Ambassador

Sep 2026

Represent Shaw College in student-facing activities, outreach, and community engagement; support communication between the College and its student community.

Chinese Debate Team Member

Sep 2025 - Present

Research evidence, develop debate cases, and contribute to team training; present arguments in competition and collaborate on case preparation.

Quarterfinalist (Top 8), World Chinese Debate Invitational Tournament.

Selected Honors

Lee Quo Wei CUHK Golden Jubilee Scholarship; CUHK Entrance Scholarship

ELITE Stream Scholarship 2025/26; Honours at Entrance

Technical Skills

Python, C, R | NumPy, pandas, PyTorch, Git, CMake