

Hongzheng Yang

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Education

The Chinese University of Hong Kong, incoming PhD student	Aug. 2025 –
• Systems Engineering & Engineering Management	
• Topics: MLLMs continual learning, LLMs alignment, LLMs reasoning	

Beihang University, BEng in Artificial Intelligence	Sep. 2018 – May. 2022
• GPA: 3.8/4.0	
• Courses: Machine Learning, Intelligent Robot and Control, Pattern Recognition, Methods of Optimization, Knowledge Engineering.	

Experience

Research Assistant, CUHK – HK, Sep. 2022 - Aug. 2024 (CSE MedAIR lab), Dec. 2024 - Now (SEEM Ethicalytics lab)

- Worked on federated learning, test time adaptation, medical image analysis at MedAIR lab.
- Participated in the implementation and discussions on SAE regularization for SLM activation steering, and on coronary artery angiography (CAG) intervention planning and simulation.

Publications

SEFE: Superficial and Essential Forgetting Eliminator for Multimodal Continual Instruction Tuning

Jinpeng Chen, Runmin Cong, Yuzhi Zhao, **Hongzheng Yang**, Guangneng Hu, Horace Ho Shing Ip, Sam Kwong
ICML 2025

Uncertainty estimation for safety-critical scene segmentation via fine-grained reward maximization

Hongzheng Yang, Cheng Chen, Yueyao Chen, Hon Chi Yip, Qi Dou

NeurIPS 2023

Dltta: Dynamic learning rate for test-time adaptation on cross-domain medical images

Hongzheng Yang, Cheng Chen, Meirui Jiang, Quande Liu, Jianfeng Cao, Pheng Ann Heng, Qi Dou
TMI 2022

Preprint

RSTFA: Efficient Training-Free Human Preference Alignment via Rejection Sampling for Text-to-Image Diffusion Models

Hongzheng Yang, Jason Chun Lok Li, Li Kun, Wenao Ma, Mingjie Xu, Yuzhi Zhao
under ICCV submission

Deepening LLMs Safety via MCTS-Guided Alignment

Hongzheng Yang, Mingjie Xu, Kun Li, Yuzhi Zhao
under COLM submission

Better Reasoning with Less Data: Enhancing VLMs Through Unified Modality Scoring

Mingjie Xu, Andrew Estornell, **Hongzheng Yang**, Yuzhi Zhao, Zhaowei Zhu, Qi Xuan, Jiaheng Wei
under NeurIPS submission

Fellowships & Awards

- Champion of MICCAI FeTS Challenge, to participate in Generalization “In The Wild” track.
- Graduate with Distinction from Beihang University.
- National Scholarship from the Ministry of Education, Government of China.