

YANCHENG LONG

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EDUCATION BACKGROUND

The Chinese University of Hong Kong

Master of Science in Computer Science

Sep. 2026 - Aug. 2027

Hong Kong, China.

Harbin Institute of Technology, Shenzhen

Computer Science and Technology

Sep. 2022 - Jun. 2026

Shenzhen, China.

- **GPA:** 89.8/100

- **Exchange:** City University of Hong Kong (Sep. - Dec. 2024)

RESEARCH INTEREST

My research focuses on **Multimodal** and **Data Centric AI**, with a focus on advancing **multimodal understanding**, **reward modeling** for image generation and editing, and **robust cross-modal learning**.

PUBLICATIONS

[1] **Yancheng Long***, Yankai Yang*, Hongyang Wei, Wei Chen, Tianke Zhang, Changyi Liu, et al., “SpatialReward: Bridging the Perception Gap in Online RL for Image Editing via Explicit Spatial Reasoning”. **[ICML 2026]**[\[Website\]](#)[\[Paper\]](#)

[2] Shuo Yang, **Yancheng Long**, Yujie Wei, Zeke Xie, Hongxun Yao, Min Xu, Liqiang Nie, “Noisy Correspondence Rectification in Multimodal Clustering Space for Cross-modal Matching”. **[TPAMI] (First Student Author)**[\[Paper\]](#)

[3] Yankai Yang*, **Yancheng Long***, Hongyang Wei, Wei Chen, Tianke Zhang, et al., “Joint Reward Modeling: Internalizing Chain-of-Thought for Efficient Visual Reward Models”. **[NeurIPS 2026 Under Review]**[\[Paper\]](#)

[4] Wei Chen, **Yancheng Long**, Mingqiao Liu, Haojie Ding, Yankai Yang, Hongyang Wei, et al., “Spatial Chain-of-Thought: Bridging Understanding and Generation Models for Spatial Reasoning Generation”. **[ACM MM 2026 Under Review]**[\[Website\]](#)[\[Paper\]](#)

[5] Hongyang Wei*, Bin Wen*, **Yancheng Long**, Yankai Yang, Yuhang Hu, Tianke Zhang, Wei Chen, et al., “UniRef-Image-Edit: Towards Scalable and Consistent Multi-Reference Image Editing”. [\[Paper\]](#)

[6] Jiyu Guo, Shuo Yang, Yiming Huang, **Yancheng Long**, Xiaobo Xia, Xiu Su, Bo Zhao, Zeke Xie, Liqiang Nie, “UtilGen: Utility-Centric Generative DataAugmentation with Dual-Level Task Adaptation”. **[NeurIPS 2025 Accepted]**[\[Paper\]](#)

RESEARCH & PROFESSIONAL EXPERIENCE

Kuaishou Technology

Sep. 2025 - Present

Multimodal LLM Algorithm Researcher (Keye team - Core Technology Research Department)

Beijing, China.

- **Foundation Model Training:** Participated in training the Keye multimodal foundation model, focusing on advancing its core multimodal understanding capabilities. [\[Project Page\]](#)
- **Image Editing Reward Models:** Spearheaded research in online RL for image editing by developing the generative SpatialReward model (**P.1, ICML'26**) for explicit spatial reasoning, and co-developed the Joint Reward Modeling framework (**P.3, NeurIPS'26 UR**) to internalize chain-of-thought for efficient visual rewards.
- **Spatial Reasoning & Image Editing:** Co-developed bridging frameworks for spatial reasoning generation (**P.4, ACM MM'26 UR**) and scalable multi-reference image editing architectures.

THUNLP Group & ModelBest.Inc

Apr. 2025 - Sep. 2025

Omni-modal Algorithms Intern (Top Talent Plan - Foundational Models Department)

Beijing, China.

- Contributed to the MiniCPM-o 4.5 through end-to-end, low-latency speech generation, Audio-RLHF training, advanced emotional-control audio capabilities, and dataset construction. [\[Project Page\]](#)

iLearn Lab (Topic: Noisy Correspondence Learning & MLLM)

Dec. 2024 - Present

Research Assistant (Supervisor: Prof. Shuo Yang, Harbin Institute of Technology, Shenzhen)

Shenzhen, China.

Core contributions to the following works:

- **BiCro++ (P.2, TPAMI)** tackles noisy correspondence in cross-modal matching by leveraging bidirectional similarity consistency to generate soft labels, effectively filtering misaligned image-text pairs.
- **UtilGen (P.6 NeurIPS'25)** introduces a utility-centric augmentation framework that uses task-specific feedback to iteratively optimize synthetic data generation at both model and instance levels.

AWARDS

- **Academic Awards:** 2023-2024 Second Prize Scholarship for Undergraduate Student (15%)
- The 15th LanQiao Programming Contest Group A (C) • Provincial Second Prize
- 2023 China Undergraduate Mathematical Contest in Modeling • Provincial Second Prize