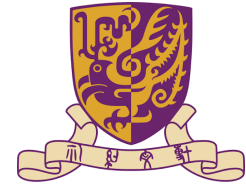


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RESEARCH INTERESTS

My research lies at **AI for Healthcare**, with a long-term vision of building **trustworthy** clinical AI systems. I focus on **medical MLLMs and agents**, with an emphasis on making their diagnostic reasoning transparent and verifiable through **LLM reasoning** and **RL** techniques. My work also involves **medical imaging and computer vision**, where I curate clinical datasets and develop domain-specific foundation models that bridge visual perception with diagnostic reasoning.

EDUCATION

The Chinese University of Hong Kong, Shenzhen

Shenzhen, China

Master of Philosophy in Computer Science

Sept. 2025 – Jun. 2027

- **Advisor:** Prof. Juexiao Zhou; **GPA: 3.6/4.0**

Hangzhou Dianzi University

Hangzhou, China

Bachelor of Engineering in Computer Science and Technology

Sept. 2021 – Jun. 2025

- **Advisors:** Prof. Renshu Gu and Fangli Guan; **GPA: 3.8/4.0**

PUBLICATIONS [\[Google Scholar\]](#) **Equal Contribution*

Journals

[J1] **Yuhao Shen**, Zhangtianyi Chen, Yuanhao He, Yan Xu, Shuping Zhang, Liyuan Sun, Zijian Wang, Yinghao Zhu, Yuyuan Yang, Jiahe Qian, Ziwen Wang, Xinyuan Zhang, Wenbin Liu, Zongyuan Ge, Tao Lu, Siyuan Yan, Juexiao Zhou. *Trustworthy and Fair SkinGPT-R1 for Democratizing Dermatological Reasoning across Diverse Ethnicities*. **Major revision at Nature Communications**. [\[paper\]](#) [\[code\]](#)

[J2] Zhangtianyi Chen*, **Yuhao Shen***, Florensia Widjaja, Yan Xu, Liyuan Sun, Zijian Wang, Hongyi Chen, Wufei Dai, Juexiao Zhou. *SkinGPT-X: A Self-Evolving Collaborative Multi-Agent System for Transparent and Trustworthy Dermatological Diagnosis*. **Under peer review at Nature Communications**. [\[paper\]](#) [\[code\]](#)

[J3] Ce Shen, Shuiming Wang, **Yuhao Shen**, Shuai Ye. *Research and Application of 3D Point Cloud Matching Algorithm Based on Machine Vision in Real-Time Detection of Bulk Materials*. *Automation Applications*, 2023. [\[paper\]](#)

Conferences

[C1] **Yuhao Shen**, Jiahe Qian, Shuping Zhang, Zhangtianyi Chen, Tao Lu, Juexiao Zhou. *Towards Trustworthy Dermatology MLLMs: A Benchmark and Multimodal Evaluator for Diagnostic Narratives*. The 19th European Conference on Computer Vision (ECCV 2026). [\[paper\]](#) [\[code\]](#)

[C2] **Yuhao Shen**, Lang Cao, Simo Du, Yuqing Wang, Juexiao Zhou, Hao Peng, Yue Guo. *MedGuideX: Internalizing Decision Logic from Clinical Guidelines into Large Language Models for Reliable Diagnostic Reasoning*. **Under Review at AAAI 2027**. [\[paper\]](#)

- [C3] **Yuhao Shen**, Liyuan Sun, Yan Xu, Wenbin Liu, Shuping Zhang, Shawn Afvari, Zhongyi Han, Jiaoyan Song, Yongzhi Ji, Tao Lu, Xiaonan He, Xin Gao, Juexiao Zhou. *SkinCaRe: A Multimodal Dermatology Dataset Annotated with Medical Caption and Chain-of-Thought Reasoning*. The 3rd International Workshop on Multimedia Computing for Health and Medicine (**ACM MM 2026 Workshop**). [[paper](#)] [[dataset](#)]
- [C4] **Yuhao Shen**, Xiyan Huang. *A Comparative Visualization Analysis of Neural Network Models using Grad-CAM*. Conference Covering Computer Science and Information Technology (**CSI 2025**). [[paper](#)]
- [C5] **Yuhao Shen**. *Exploring Generalization Capability of U-Net Architecture through Domain Adaptation*. International Conference on Artificial Intelligence and Communication (**ICAIC 2024**).
- [C6] Lang Cao*, **Yuhao Shen***, Tianyang Luo, Yue Guo. *GuideSkill: Evolving Executable LLM Agent Skills for Guideline-Grounded Clinical Reasoning*. **Under Review at AAAI 2027**. [[paper](#)]
- [C7] Jiahe Qian*, **Yuhao Shen***, Zhangtianyi Chen, Juexiao Zhou, Peisong Wang. *CoTBox-TTT: Grounding Medical VQA with Visual Chain-of-Thought Boxes During Test-time Training*. **Under Review at AAAI 2027**. [[paper](#)]
- [C8] Zhangtianyi Chen, Florensia Widjaja, Wufei Dai, Xiangjun Zhang, **Yuhao Shen**, Juexiao Zhou. *Beyond Prompt-Based Planning: MCP-Native Graph Planning-based Biomedical Agent System*. **Under Review at AAAI 2027**. [[paper](#)]
- [C9] Ruipeng Zhang, Zhangtianyi Chen, Zixuan Huang, Tong Ji, Junlin Liu, **Yuhao Shen**, YiQi Liao, Bailin Liang, Ruibo Duan. *HalluAgent: Type-Conditioned Visual Evidence for Hallucination Mitigation in Large Vision-Language Models*. **Under Review at AAAI 2027**.

Patents

- [P1] *Machine Vision Universal Image Browser System*. 2023SR1244870.
- [P2] *A Dock Production Management System Based on Big Data*. CN115936373A.
- [P3] *A Laser Detection Method for Port Machine Equipment*. CN117970367A.
- [P4] *An Automated Operation Method for Ship Hold Cleaning*. CN119329709A.

EXPERIENCES

Ant Healthcare, Ant Group <i>Research Intern</i> Advisor: Dr. Junjun He Research: General Medical Artificial Intelligence	Aug. 2026 – Present
University of Illinois Urbana-Champaign (UIUC) <i>Research Intern</i> Advisor: Prof. Yue Guo Research: Trustworthy Clinical Reasoning for Medical LLMs	Feb. 2026 – Jun. 2026
The Chinese University of Hong Kong, Shenzhen <i>Research Intern</i> Advisor: Prof. Juexiao Zhou Research: Medical Image Segmentation for Dermatology	Mar. 2025 – May 2025
Xidian University Hangzhou Institute of Technology <i>Research Intern</i> Advisor: Prof. Chao Yang Research: 3D Point-Cloud Perception	Jul. 2023 – Sept. 2023