

Zhang Jiahao

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INTRODUCTION

Zhang Jiahao is a first-year Ph.D. student at University of Macau. He obtains his M.Eng. of Mechanical Engineering from City University of Hong Kong and B.Eng. of Automation from Nankai University.

His research focuses on **multi-modal models** and **generative learning**. He previously worked on leveraging vision-language model uncertainty for robust cross-modal retrieval, and explored large-scale world simulators and world models.

Moving forward, he will join the National University of Singapore (NUS) as a research intern, working on reinforcement learning and innovative representations for **embodied assembly capabilities** of **multimodal agentic models**.

EDUCATION

University of Macau Ph.D. in Computer Science Supervisor: Prof. Zhedong Zheng	<i>2025.8 – Present</i> Macau SAR
City University of Hong Kong M.Eng. in Mechanical Engineering	<i>2019.9 – 2020.10</i> Hong Kong SAR
Nankai University B.Eng. in Automation	<i>2014.9 – 2018.6</i> Tianjin, China

PUBLICATIONS

1. [SIGIR 2026] [Pretrain-then-Adapt: Uncertainty-Aware Test-Time Adaptation for Text-based Person Search](#)

Jiahao Zhang, Shaofei Huang, Yaxiong Wang, Zhedong Zheng

- We propose UATTA, a novel Pretrain-then-Adapt framework for text-based person search that utilizes bidirectional retrieval disagreement uncertainty to enable dynamic model adaptation on unlabeled test data.

INTERNSHIP

National University of Singapore (NUS) Research Visitor Supervisor: Prof. Angela Yao	<i>2026.10 – Present</i> Singapore
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- Exploring how to empower multimodal agentic models with embodied capabilities for complex LEGO assembly tasks through reinforcement learning and advanced representations.

WORK EXPERIENCE

China CITIC Bank Co., Ltd. Software Development Engineer	<i>2020.11 – 2025.7</i> Beijing, China
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- Developed the Auto Finance Supply Chain System for corporate banking. Designed and engineered management microservices for Investment Banking and Transaction Banking using Java, Spring Boot, and relational databases (DB2/MySQL).

- Contributed to the integration and refactoring of multiple corporate banking management microservices into a unified, comprehensive Corporate Banking Management System to improve system cohesion and efficiency. Participated in the full lifecycle (design, development, testing, and deployment) of the Green and Low-Carbon System for sustainable technology.
- Led DevOps operations, including configuration and version management, container image building via Docker, and cloud-based container deployment and maintenance via Kubernetes and Huawei Cloud.

COMPETITIONS

Competition Expert 3 silvers and 6 bronzes in [Kaggle](#), the World's AI Proving Ground by Google