

Ziwei Liu

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Ph.D. student in the AML Lab at the School of Data Science, City University of Hong Kong. My research focuses on Recommender Systems, Information Retrieval, and Large Language Models (LLMs), with papers published and presented at top international AI conferences.

EDUCATION

City University of Hong Kong Ph.D. in Data Science. Affiliation: AML Lab	(Hong Kong, China)	Sep 2025 – Present
City University of Hong Kong Master of Engineering in Data Science. Supervisor: Prof. Zhao Xiangyu	(Hong Kong, China)	Sep 2023 – Oct 2024
Southeast University Bachelor of Engineering in Robotics Engineering. Co-supervised by Prof. Gan Yahui & Prof. Li Jun. Excellent Graduation Project	(Nanjing, China)	Sep 2019 – Jun 2023

RESEARCH EXPERIENCE

Chinese University of Hong Kong (Shenzhen) Research Assistant	(Shenzhen, China)	May 2024 – Dec 2024
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PUBLICATIONS & PREPRINTS

The Best of the Two Worlds: Harmonizing Semantic and Hash IDs for Sequential Recommendation (H^2Rec).

Accepted by KDD'26 ADS Track (May 2026).

- Harmonizing semantic IDs with Hash IDs to address the overwhelming collaborative problem in Sequential Recommendation, providing a promising solution to leverage both SID and HID in discriminative recommendation or ranking models.

LLM-EDT: Large Language Model Enhanced Cross-domain Sequential Recommendation with Dual-phase Training.

Accepted by SIGIR'26 Full Paper (April 2026).

- Proposes a new first-train-and-then-fine-tune paradigm for cross-domain sequential recommendation to address the transition problem. To address the domain imbalance problem, LLM-EDT proposes a powerful item augmenter to generate the 'bridge' among different domains. Extensive experiments on public datasets validate the effectiveness of each design.

SIGMA: Selected Gated Mamba for Sequential Recommendation.

Accepted by AAAI'25 (Dec 2024).

- One of the first studies to analyze problems arising from applying the Mamba structure to Sequential recommendation. To successfully integrate Mamba into a standard SRS, we design a dual-branch Mamba module that integrates with a lightweight GRU via a selective gate.

TUTORIALS

- **KDD 2025:** Large language model enhanced recommender systems: Taxonomy, trend, application and future. (Aug 2025)

HONORS AND AWARDS

- **AAAI 2025 Travel Award & Volunteer** (Jan 2025)
- **Silver Medal in Kaggle: LLM Prompt Recovery** (Rank: 44/2175) (Dec 2024)
- **Excellent Graduation Project**, Southeast University (Jun 2023)

ACADEMIC SERVICE

- **Journal Reviewer:** IEEE TKDE, ACM TOIS
- **Program Committee / Reviewer:** MM 2026, SIGIR 2026 (Research Track), SIGIR 2025, ACM RecSys 2025, AAAI 2026 (Main & AIA Track)