

# Lianghao Xia

Research Assistant Professor, The University of Hong Kong

📖 Foundation Models   📖 Graph Learning   📖 Recommendation

📖 Large Language Models   📖 Self-Supervised Learning   📖 Spatio-Temporal Modeling

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🌐 <http://akaxlh.github.io/>

🔗 <https://github.com/akaxlh>

📄 <https://scholar.google.com/citations?user=fDDjoUEAAAAJ>

## Work & Education Experience

- |   |                   |
|---|-------------------|
| 🌟 Research Assistant Professor, The University of Hong Kong | 11/2024 – Present |
| 🌟 Postdoctoral Fellow, The University of Hong Kong          | 04/2022 – 11/2024 |
| 🌟 Ph.D., South China University of Technology               | 09/2017 – 12/2021 |
| 🌟 Bachelor, South China University of Technology            | 09/2013 – 06/2017 |

## Honors & Awards

- **World's Top 2% Scientists** 2024 published by Stanford University
- **AI 2000 Most Influential Scholar** (2022-2023) by AMiner in **Data Mining** and **Information Retrieval**: **Rank 4th** (Citation-based), **Rank 7th** (Contribution-based), **Rank 2nd** (Rising-Star).
- One KDD 2024 **Most Influential Papers** (Rank 10th / 559 Accepted Papers)
- One WWW 2024 **Most Influential Papers** (Rank 1st / 405 Accepted Papers)
- Three WWW 2023 **Most Influential Papers** (Rank 4th, 5th, 10th / 323 Accepted Papers)
- One SIGIR 2023 **Most Influential Papers** (Rank 12th / 165 Accepted Papers)
- Two KDD 2023 **Most Influential Papers** (Rank 10th, 11th / 497 Accepted Papers)
- Two SIGIR 2022 **Most Influential Papers** (Rank 2nd and 3rd / 161 Accepted Papers)
- One SIGIR 2021 **Most Influential Papers** (Rank 13th / 151 Accepted Papers)
- ACM MM 2024 **Best Paper Honorable Mention Award**
- WWW 2023 **Best Paper Nomination & Spotlight Paper** (Top 16 among 323 Accepted Papers)
- WSDM 2022 **Best Paper Nomination & Top-3 Most Cited Paper**
- WSDM 2023 **Top-1 Most Cited Paper among 123 Accepted Papers**
- ICLR 2023 **Spotlight Paper** (Top 25%)

## Selected Publications

- 🔔 Google scholar citation **4600+**, with **2500+** in 2024, h-index **34**, i-10 index **51**.
- [EMNLP'24] **L. Xia**, B. Kao, and C. Huang  
"OpenGraph: towards open graph foundation models"  
**One of the First Graph Foundation Models, GitHub Star 300+**
  - [WWW'23] **L. Xia**, C. Huang, C. Huang, T. Yu, and B. Kao  
"Automated self-supervised learning for recommendation"  
**Best Paper Nomination & Spotlight Paper (Top 16 / 323), Most Influential Papers (Top 10 / 323)**
  - [WWW'23] **L. Xia**, C. Huang, J. Shi, and Y. Xu  
"Graph-less collaborative filtering"  
**Top 10% Most-Cited Papers of WWW'2023**
  - [ICDE'23] **L. Xia**, Y. Shao, C. Huang, Y. Xu, H. Xu, and J. Pei  
"Disentangled graph social recommendation"  
**Top 8% Most-Cited Papers of ICDE'2023**
  - [SIGIR'22] **L. Xia**, C. Huang, Y. Xu, J. Zhao, D. Yin, and J. Huang  
"Hypergraph contrastive collaborative filtering"  
**Most Influential Papers of SIGIR'2022 (Top 2 / 161), Citation 360+**
  - [KDD'22] **L. Xia**, C. Huang, and C. Zhang  
"Self-supervised hypergraph transformer for recommender systems"  
**Top 7% Most-Cited Papers of KDD'2022, Citation 110+**
  - [TKDE'22] **L. Xia**, C. Huang, Y. Xu, and J. Pei  
"Multi-behavior sequential recommendation with temporal graph transformer"  
**Top 13% Most-Cited Papers of TKDE'2022**

- **[SIGIR'21]** [L. Xia](#), Y. Xu, C. Huang, P. Dai, and L. Bo  
"Graph meta network for multi-behavior recommendation"  
**Most Influential Papers of SIGIR'2021 (Top 13 / 151), Citation 200+**
- **[AAAI'21]** [L. Xia](#), C. Huang, Y. Xu, P. Dai, X. Zhang, H. Yang, J. Pei, and L. Bo  
"Knowledge-enhanced hierarchical graph transformer network for multi-behavior recommendation"  
**Top 6% Most-Cited among the 1692 Accepted Papers of AAAI'2021, Citation 210+**
- **[IJCAI'21]** [L. Xia](#), C. Huang, Y. Xu, P. Dai, L. Bo, X. Zhang, and T. Chen  
"Spatial-temporal sequential hypergraph network for crime prediction with dynamic multiplex relation learning"  
**Top 5% Most-Cited among the 587 Accepted Papers of IJCAI 2021**
- **[ICDE'21]** [L. Xia](#), C. Huang, Y. Xu, P. Dai, M. Lu, and L. Bo  
"Multi-behavior enhanced recommendation with cross-interaction collaborative relation modeling"  
**Top 6% Most-Cited Papers of ICDE'2021**
- **[SIGIR'20]** [L. Xia](#), C. Huang, Y. Xu, P. Dai, B. Zhang, and L. B  
"Multiplex behavioral relation learning for recommendation via memory augmented transformer"  
**Top 12% Most-Cited Papers of SIGIR'2020, Citation 120+**
- **[Under review]** Z. Guo, [L. Xia](#), Y. Yu, T. Ao, and C. Huang  
"LightRAG: simple and fast retrieval-augmented generation"  
**Receives over 12k GitHub Stars**
- **[KDD'24]** Z. Li, [L. Xia](#), J. Tang, Y. Xu, L. Shi, L. Xia, D. Yin, and C. Huang  
"UrbanGPT: spatio-temporal large language models"  
**Most Influential Papers of KDD'2024 (Top 10 / 559)**
- **[MM'24]** Y. Jiang, [L. Xia](#), W. Wei, D. Luo, K. Lin, and C. Huang  
"DiffMM: multi-modal diffusion model for recommendation"  
**Best Paper Nomination & Honorable Mention Award**
- **[WWW'24]** X. Ren, W. Wei, [L. Xia](#), L. Su, S. Cheng, J. Wang, D. Yin, and C. Huang  
"Representation learning with large language models for recommendation"  
**Most Influential Papers of WWW'2024 (Top 1 / 405)**
- **[SIGIR'23]** X. Ren, [L. Xia](#), J. Zhao, D. Yin, and C. Huang  
"Disentangled contrastive collaborative filtering"  
**Most Influential Papers of SIGIR'2023 (Top 12 / 165)**
- **[WWW'23]** W. Wei, C. Huang, [L. Xia](#), and C. Zhang  
"Multi-modal self-supervised learning for recommendation"  
**Most Influential Papers of WWW'2023 (Top 4 / 323)**
- **[WWW'23]** Y. Yang, C. Huang, [L. Xia](#), C. Huang, D. Luo, and K. Lin  
"Debiased contrastive learning for sequential recommendation"  
**Most Influential Papers of WWW'2023 (Top 5 / 323)**
- **[ICLR'23]** X. Cai, C. Huang, [L. Xia](#), and X. Ren  
"LightGCL: simple yet effective graph contrastive learning for recommendation"  
**Spotlight Paper (Top 25%), Google Citation 264**
- **[WSDM'23]** M. Chen, C. Huang, [L. Xia](#), W. Wei, Y. Xu, and R. Luo  
"Heterogeneous graph contrastive learning for recommendation"  
**Most-Cited Papers of WSDM'2023 (Top 1 / 123)**
- **[KDD'22]** Y. Yang, C. Huang, [L. Xia](#), Y. Liang, Y. Yu, and C. Li  
"Multi-behavior hypergraph-enhanced transformer for sequential recommendation"  
**Google Citation 120, Top 7% Most-Cited Papers of KDD'2022**
- **[SIGIR'22]** Y. Yang, C. Huang, [L. Xia](#), and C. Li  
"Knowledge graph contrastive learning for recommendation"  
**Most Influential Papers of SIGIR'2022 (Top 3 / 161)**
- **[WSDM'22]** W. Wei, C. Huang, [L. Xia](#), Y. Xu, J. Zhao, and D. Yin  
"Contrastive meta learning with behavior multiplicity for recommendation"  
**Best Paper Nomination & Most Cited Papers of WSDM'2022 (Top 3 / 159)**

## Services & Tutorials

- **Regular PC Members of Conferences:** SIGIR, KDD, WWW, AAAI, NeurIPS, ICLR, ICML, CIKM, SDM
- **Reviewer for Journals:** TKDE, TBD, TNNLS, TLT, TOIS, TWEB, TKDD, TIST
- **Tutorials** at CIKM'2022, WWW'2024, KDD'2024