

Lianghao Xia

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📖 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 **4415**, with **2520** in 2024, h-index **34**, i-10 index **49**.

- [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)
- [KDD'22] **L. Xia**, C. Huang, and C. Zhang
"Self-supervised hypergraph transformer for recommender systems"
Google Citation 109, Top 7% Most-Cited Papers of KDD'2022
- [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 \(Top 13 / 151\)](#)
- **[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"
[Google Citation 210, Top 6% Most-Cited among the 1692 Accepted Papers of AAAI'2021](#)
- **[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"
[Google Citation 121, Top 12% Most-Cited Papers of SIGIR'2020](#)
- **[Under review]** Z. Guo, [L. Xia](#), Y. Yu, T. Ao, and C. Huang
"LightRAG: simple and fast retrieval-augmented generation"
[Receives 11.2k 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*