# Lianghao Xia

**Research Assistant Professor, The University of Hong Kong**

🔖 **Foundation Models**　🔖 **Graph Learning**　🔖 **Recommendation**
🔖 **Large Language Models**　🔖 **Self-Supervised Learning**　🔖 **Spatio-Temporal Modeling**

✉ aka_xia@foxmail.com　　🌐 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 | 06/2022 – 11/2024 |
| ✳ | **Ph.D.**, South China University of Technology | 09/2017 – 12/2021 |
| ✳ | **Bachelor**, South China University of Technology | 09/2013 – 06/2017 |

## Hornors & Awards

- World's **Top 2% Scientists** 2024 published by Stanford University.
- **AI 2000 Most Influential Scholars (2022-2023)** by Aminer in **Data Mining** and **Information Retrieval**.
- I was awarded the **He-Jingtang Innovation prize** upon completing my doctoral studies, an honor bestowed upon **only two PhD candidates throughout the university**.
- *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 Nomination & Hornarable Mention Award**
- WWW 2023 **Best Paper Nomination & Spotlight Paper**
- WSDM 2022 **Best Paper Nomination & Top-3 Most Cited Paper**
- WSDM 2023 **Top-1 Most Cited Paper**
- ICLR 2023 **Spotlight Paper** (Top 25%)

## Selected Publications

🔔 Google scholar citation **3615**, with **2085** in 2024 (10 months), h-index **31**, i-10 index **44**.

- **[WSDM'25]** <u>L. Xia</u>, M. Xie, Y. Xu, and C. Huang
  "Heterogeneous Graph Collaborative Filtering"

- **[EMNLP'24]** <u>L. Xia</u>, B. Kao, and C. Huang
  "OpenGraph: Towards open graph foundation models"

- **[KDD'24]** Z. Li, <u>**L. Xia**</u>, J. Tang, Y. Xu, L. Shi, L. Xia, D. Yin, C. Huang
  "UrbanGPT: Spatio-temporal large language models"
  **Most Influential Papers (10 / 559)**

- **[MM'24]** Y. Jiang, <u>**L. Xia**</u>, W. Wei, D. Luo, K. Lin, C. Huang
  "DiffMM: Multi-Modal Diffusion Model for Recommendation"
  **Best Paper Nomination & Hornarable Mention Award**

- **[WWW'24]** X. Ren, W. Wei, <u>**L. Xia**</u>, L. Su, S. Cheng, J. Wang, D. Yin, and C. Huang
  "Representation learning with large language models for recommendation"
  **Most Influential Papers (1 /405)**

- **[WWW'23]** <u>L. Xia</u>, C. Huang, C. Huang, T. Yu, and B. Kao
  "Automated self-supervised learning for recommendation"
  **Best Paper Nomination & Spotlight Paper (16 / 323), Most Influential Papers (10 / 323)**

- **[WWW'23]** <u>L. Xia</u>, C.Huang, J. Shi, and Y. Xu
  "Graph-less collaborative filtering"
- **[ICDE'23]** <u>L. Xia</u>, Y. Shao, C. Huang, Y. Xu, H. Xu, and J. Pei
  "Disentangled graph social recommendation"
- **[SIGIR'23]** X. Ren, <u>L. Xia</u>, J. Zhao, D. Yin, C. Huang
  "Disentangled Contrastive Collaborative Filtering"
  **Most Influential Papers (12 / 165)**
- **[WWW'23]** W. Wei, C. Huang, <u>L. Xia</u>, and C. Zhang
  "Multi-Modal Self-Supervised Learning for Recommendation"
  **Most Influential Papers (4 / 323)**
- **[WWW'23]** Y. Yang, C. Huang, <u>L. Xia</u>, C. Huang, D. Luo, K. Lin
  "Debiased contrastive learning for sequential recommendation"
  **Most Influential Papers (5 / 323)**
- **[ICLR'23]** X. Cai, C. Huang, <u>L. Xia</u>, and X. Ren
  "LightGCL: Simple yet effective graph contrastive learning for recommendation"
  **Spotlight Paper (Top 25%)**
- **[WSDM'23]** M. Chen, C. Huang, <u>L. Xia</u>, W. Wei, Y. Xu, R. Luo
  "Heterogeneous Graph Contrastive Learning for Recommendation"
  **Most-Cited Papers (1 / 123)**
- **[SIGIR'22]** <u>L. Xia</u>, C. Huang, Y. Xu, J. Zhao, D. Yin, J. Huang
  "Hypergraph contrastive collaborative filtering"
  **Most Influential Papers (2 / 161)**
- **[KDD'22]** <u>L. Xia</u>, C. Huang, and C. Zhang
  "Self-supervised hypergraph transformer for recommender systems"
- **[TNNLS'22]** <u>L. Xia</u>, C. Huang, Y. Xu, P. Dai, and L. Bo
  "Multi-behavior graph neural networks for recommender system"
- **[TKDE'22]** <u>L. Xia</u>, C. Huang, Y. Xu, J. Pei
  "Multi-behavior sequential recommendation with temporal graph transformer"
- **[SIGIR'22]** Y. Yang, C. Huang, <u>L. Xia</u>, and C. Li
  "Knowledge graph contrastive learning for recommendation"
  **Most Influential Papers (3 / 161)**
- **[WSDM'22]** W. Wei, C. Huang, <u>L. Xia</u>, Y. Xu, J. Zhao, D. Yin
  "Contrastive meta learning with behavior multiplicity for recommendation"
  **Best Paper Nomination & Most Cited Papers (3 / 159)**
- **[SIGIR'21]** <u>L. Xia</u>, Y. Xu, C. Huang, P. Dai, and L. Bo
  "Graph meta network for multi-behavior recommendation"
  **Most Influential Papers (13 / 151)**
- **[AAAI'21]** <u>L. Xia</u>, 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"
- **[IJCAI'21]** <u>L. Xia</u>, C. Huang, Y. Xu, P. Dai, L. Bo, X. Zhang, T. Chen
  "Spatial-temporal sequential hypergraph network for crime prediction with dynamic multiplex relation learning"
- **[ICDE'21]** <u>L. Xia</u>, C. Huang, Y. Xu, P. Dai, M. Lu, and L. Bo
  "Multi-behavior enhanced recommendation with cross-interaction collaborative relation modeling"
- **[TOIS'21]** <u>L. Xia</u>, C. Huang, Y. Xu, H. Xu, X. Li, and W. Zhang
  "Collaborative reflection-augmented autoencoder network for recommender systems
- **[SIGIR'20]** <u>L. Xia</u>, C. Huang, Y. Xu, P. Dai, B. Zhang, and L. B
  "Multiplex behavioral relation learning for recommendation via memory augmented transformer"

## Services & Tutorials

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