

Xinting Liao | Curriculum Vitae

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I am a final-year Ph.D. candidate majoring in Computer Science of Zhejiang University. My research interests include trust-worthy machine learning, collaborative (federated) modeling, and foundation models.

Contact

Web links:

- Homepage
- Google Scholar
- ORCID
- DBLP
- GitHub
- Semantic Scholar

Education and Professional Service

Zhejiang University

Doctor of Science in Computer Science

- Supervisor: Xiaolin Zheng & Chaochao Chen.

Hangzhou, China

Sep. 2020 – Jun. 2025 (Expected)

Sichuan University

Bachelor of Science in Software Engineering, (GPA: 3.81/4.0)

Chengdu, China

Sep. 2016 – Jun. 2020

Experience

NExT++ Lab in National University of Singapore

Visiting Student

- Supervisor: Tat-Seng Chua.
- Task: Federated recommender system, Privacy in foundation models.

Singapore

Jun. 2024 – Present

Text Intelligence Lab in Westlake University

Visiting Student

- Supervisor: Yue Zhang.
- Task: Mining concept stocks based on language model (BERT).

Hangzhou, China

Oct. 2019 – May. 2020

Medical Image Lab in Sichuan University

Undergraduate Intern

- Task: System of breast lesion diagnosis.

Chengdu, China

Mar. 2018 – Jun. 2019

Awards

Prizes:

- The 3rd Chinese Graduate Artificial Intelligence Innovation Competition (Third Prize) 2021
- Longfor Scholarship 2023
- Wen-Chixiang Scholarship 2024
- Outstanding Graduate Student 2023, 2024
- Five Virtues Student 2024

Professional Service

Program Committee Member or Reviewer

- ACM MM,
- ACL ARR,
- EMNLP ARR,
- ICML,
- NeurIPS,
- ICLR,
- AISTATS,
- CIKM

Selected Publication List

Conference and Journal papers:

1. *PPGenCDR: A Stable and Robust Framework for Privacy-Preserving Cross-Domain Recommendation.*
Xinting Liao, Weiming Liu, Xiaolin Zheng, Binhui Yao, Chaochao Chen.
In Proc. of AAAI 2023
2. *Federated Probabilistic Preference Distribution Modelling with Compactness Co-Clustering for Privacy-Preserving Multi-Domain Recommendation.*
Weiming Liu, Chaochao Chen, **Xinting Liao**, Mengling Hu, Jianwei Yin, Yanchao Tan, Longfei Zheng.
In Proc. of IJCAI 2023
3. *HyperFed: Hyperbolic Prototypes Exploration with Consistent Aggregation for Non-IID Data in Federated Learning.*
Xinting Liao, Weiming Liu, Chaochao Chen, Pengyang Zhou, Huabin Zhu, Yanchao Tan, Jun Wang, Yue Qi.
In Proc. of IJCAI 2023
4. *Joint Local Relational Augmentation and Global Nash Equilibrium for Federated Learning with Non-IID Data.*
Xinting Liao, Chaochao Chen, Weiming Liu, Pengyang Zhou, Huabin Zhu, Shuheng Shen, Weiqiang Wang, Mengling Hu, Yanchao Tan, Xiaolin Zheng.
In Proc. of ACM MM 2023
5. *Learning Accurate and Bidirectional Transformation via Dynamic Embedding Transportation for Cross-Domain Recommendation.*
Weiming Liu, Chaochao Chen, **Xinting Liao**, Mengling Hu, Yanchao Tan, Fan Wang, Xiaolin Zheng, Yew-Soon Ong.
In Proc. of AAAI 2024
6. *Rethinking the Representation in Federated Unsupervised Learning with Non-IID Data.*
Xinting Liao, Weiming Liu, Chaochao Chen, Pengyang Zhou, Fengyuan Yu, Huabin Zhu, Binhui Yao, Tao Wang, Xiaolin Zheng, Yanchao Tan.
In Proc. of CVPR 2024
7. *Reducing Item Discrepancy via Differentially Private Robust Embedding Alignment for Privacy-Preserving Cross Domain Recommendation.*
Weiming Liu, Xiaolin Zheng, Chaochao Chen, Jiahe Xu, **Xinting Liao**, Fan Wang, Yanchao Tan, Yew-Soon Ong.
In Proc. of ICML 2024
8. *User Distribution Mapping Modelling with Collaborative Filtering for Cross Domain Recommendation.*
Weiming Liu, Chaochao Chen, **Xinting Liao**, Mengling Hu, Jiajie Su, Yanchao Tan, Fan Wang.
In Proc. of WWW 2024
9. *FOOGD: Federated Collaboration for Both Out-of-distribution Generalization and Detection.*
Xinting Liao, Weiming Liu, Pengyang Zhou, Fengyuan Yu, Jiahe Xu, Jun Wang, Wenjie Wang, Chaochao Chen, Xiaolin Zheng.
In Proc. of NeurIPS 2024
10. *FedGOG: Federated Graph Out-of-Distribution Generalization with Diffusion Data Exploration and Latent Embedding Decorrelation.*
Pengyang Zhou, Chaochao Chen, Weiming Liu, **Xinting Liao**, Wenkai Shen, Jiahe Xu, Zhihui Fu, Jun Wang, Wen Wu David, Xiaolin Zheng
In Proc. of AAAI 2025
11. *FOCoOp: Enhancing Out-of-Distribution Robustness in Federated Prompt Learning for Vision-Language Models.*
Xinting Liao, Weiming Liu, Jiaming Qian, Pengyang Zhou, Jiahe Xu, Wenjie Wang, Chaochao Chen, Xiaolin Zheng, Tat-Seng Chua
In Proc. of ICML 2025 (Recently Accepted)

Patents:

1. *Privacy protection cross-domain recommendation method based on generative model.*
Chaochao Chen, **Xinting Liao**, Xiaolin Zheng.
Application Number **CN202310742959.1**
2. *A federal modeling method and system based on non-independent identically distributed data.*
Chaochao Chen, Xiaolin Zheng, **Xinting Liao**.
Application Number **CN202310757831.2**
3. *The invention relates to a federal learning method of non-independent identically distributed data based on Nash equilibrium aggregation.*
Chaochao Chen, **Xinting Liao**, Xiaolin Zheng.
Application Number **CN117313836A**