

CURRICULUM VITAE

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Profile

My research focuses on multimodal learning and its applications in AI for medicine. I have published papers in leading venues, including *Nature Communications*, *TPAMI*, *ICLR*, *ICML*, and *CVPR*, with fourteen papers as (co-)first or corresponding author. My work has received around 1,700 citations on Google Scholar and five of my conference papers were selected for oral presentation. My work has been deployed at Ant Group to analyze public opinion from short videos and featured by leading technology media including MIT Technology Review, Synced, Extreme Mart, and PaperWeekly.

Address

Room 2602, Academic Building, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong.

Education

- **Ph.D. in Computer Science** (Sep. 2020 – Dec. 2025)
Sichuan University, Chengdu, China; advised by Cheung Kong Professor Xi Peng.
- **B.E. in Computer Science** (Sep. 2016 – Jun. 2020)
Sichuan University, Chengdu, China; ranked 2/347.

Work Experience

- **Postdoctoral Fellow** (Mar. 2026 – Present)
The Hong Kong University of Science and Technology; working with Professor Hao Chen.
- **Research Intern** (Jul. 2022 – Sep. 2023)
Ant Group (Ling Team)

Research Interests

Multimodal learning, representation learning, AI for medicine.

Publications

* *Equal contribution.* † *Corresponding author.*

Selected Journal Papers:

1. **Yijie Lin**, Mouxing Yang, Peng Hu, Jiancheng Lv, Hao Chen, Xi Peng. “Learning with Partial and Noisy Correspondence in Graph Matching.” IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2026.

2. **Yijie Lin**, Yuanbiao Gou, Xiaotian Liu, Jinfeng Bai, Jiancheng Lv, Xi Peng. “Dual Contrastive Prediction for Incomplete Multi-view Representation Learning.” IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022. (ESI Highly Cited Paper)
3. Haobin Li, **Yijie Lin**, Peng Hu, Mouxing Yang, Xi Peng. “Community-aware Multi-view Representation Learning with Incomplete Information.” IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2026.
4. Yuanyang Zhang, **Yijie Lin**, Xinhang Wan, Jie Xu, Li Yao, Weiqing Yan, Chang Tang. “Structure-Aware Conditional Diffusion Generation for Incomplete Multi-View Clustering.” IEEE Transactions on Knowledge and Data Engineering (TKDE), 2026.
5. Yunfan Li, Hancong Li, **Yijie Lin**, Dan Zhang, Dezhong Peng, Xiting Liu, Jie Xie, Peng Hu, Lu Chen, Han Luo, Xi Peng. “MetaQ: Fast, Scalable, and Accurate Metacell Inference via Single-cell Quantization.” Nature Communications, 2025.
6. Yuxin Tian, **Yijie Lin**, Qing Ye, Jian Wang, Xi Peng, Jiancheng Lv. “UNITE: Multitask Learning with Sufficient Feature for Dense Prediction.” IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMC), 2024.
7. Yiding Lu, Haobin Li, Yunfan Li, **Yijie Lin**, Xi Peng. “A Survey on Deep Clustering: From the Prior Perspective.” Vicinagearth, 2024.
8. Yunfan Li, **Yijie Lin**, Peng Hu, Dezhong Peng, Han Luo, Xi Peng. “Single-cell RNA-seq Debaised Clustering via Batch Effect Disentanglement.” IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2023.
9. Boyun Li, **Yijie Lin**, Jinfeng Bai, Peng Hu, Jiancheng Lv, Xi Peng. “Unsupervised Neural Rendering for Image Hazing.” IEEE Transactions on Image Processing (TIP), 2022.

Selected Conference Papers:

1. **Yijie Lin**, Jie Zhang, Zhenyu Huang, Jia Liu, Zujie Wen, Xi Peng. “Multi-granularity Correspondence Learning from Long-term Noisy Videos.” International Conference on Learning Representations (ICLR), 2024. **(Oral, top 1.2%)**
2. **Yijie Lin**, Mouxing Yang, Jun Yu, Peng Hu, Changqing Zhang, Xi Peng. “Graph Matching with Bi-level Noisy Correspondence.” International Conference on Computer Vision (ICCV), 2023.
3. **Yijie Lin**, Yuanbiao Gou, Zitao Liu, Boyun Li, Jiancheng Lv, Xi Peng. “COMPLETER: Incomplete Multi-view Clustering via Contrastive Prediction.” IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021.
4. Haochen Zhou, Guofeng Ding, Mouxing Yang, Peng Hu, **Yijie Lin**[†], Xi Peng[†]. “Uncover Underlying Correspondence for Robust Multi-view Clustering.” International Conference on Learning Representations (ICLR), 2026. **(Oral, top 1.2%)**
5. Yuanyang Zhang, Xinhang Wan, Chao Zhang, Jie Xu, Cunjian Chen, Tien-Tsin Wong, Li Yao[†], **Yijie Lin**[†]. “Mamba-Driven Multi-View Discriminative Clustering via Global-Local Cross-View Sequence Modeling.” AAAI Conference on Artificial Intelligence (AAAI), 2026. **(Oral, top 5%)**
6. Yuanyang Zhang, Xinhang Wan, Jiyuan Liu, Jie Xu, Li Yao[†], **Yijie Lin**[†], Tien-Tsin Wong. “Robust Incomplete Multi-view Clustering via Cycle-Consistent Optimal Transport and Hybrid Imputation.” ACM International Conference on Multimedia (ACM MM), 2026. **(Oral)**
7. Yiding Lu, Mouxing Yang, Dezhong Peng, Peng Hu, **Yijie Lin**[†], Xi Peng[†]. “LLaVA-ReID: Selective Multi-image Questioner for Interactive Person Re-Identification.” International Conference on Machine Learning (ICML), 2025.
8. Guofeng Ding, Yiding Lu, Peng Hu, Mouxing Yang, **Yijie Lin**[†], Xi Peng[†]. “Visual Abstraction: A Plug-and-Play Approach for Text-Visual Retrieval.” International Conference on Machine Learning (ICML), 2025.

9. Zhiqiang Kou, Jingcheng Duan, DongDong Wu, Hanlin Gu, Jing Guo, **Yijie Lin**[†], Di Jiang, Yuheng Jia[†]. “Noise-Aware Question-Level Multimodal Fusion for Automated Video Interview Assessment.” ACM International Conference on Multimedia (ACM MM), 2026.
10. Jie Wang*, **Yijie Lin***, Ziang Niu, Guanxiong He, Liaoyuan Tang, Zheng Wang, Rong Wang, Feiping Nie. “Long-Tailed Noisy Labels Learning via Cognitively-Inspired External Guidance.” ACM International Conference on Multimedia (ACM MM), 2026.
11. Yuanyang Zhang*, **Yijie Lin***, Weiqing Yan, Li Yao, Xinhang Wan, Guangyuan Li, Chao Zhang, Guanzhou Ke, Jie Xu. “Incomplete Multi-view Clustering via Diffusion Contrastive Generation.” AAAI Conference on Artificial Intelligence (AAAI), 2025.
12. Junhong Liu*, **Yijie Lin***, Liang Jiang, Jia Liu, Zujie Wen, Xi Peng. “Improve Interpretability of Neural Networks via Sparse Contrastive Coding.” Findings of the Association for Computational Linguistics: EMNLP, 2022.
13. Haobin Li, **Yijie Lin**, Peng Hu, Mouxing Yang, Xi Peng. “Learning with Dual-level Noisy Correspondence for Multi-modal Entity Alignment.” International Conference on Learning Representations (ICLR), 2026. **(Oral, top 1.2%)**
14. Haobin Li, Yutong Yang, **Yijie Lin**, Xiang Dai, Mouxing Yang, Xi Peng. “Reliable Thinking with Images.” International Conference on Machine Learning (ICML), 2026.
15. Yutong Yang, Lifu Huang, **Yijie Lin**, Xi Peng, Mouxing Yang. “Endowing Vision-Language Models with System 2 Thinking for Fine-grained Visual Recognition.” AAAI Conference on Artificial Intelligence (AAAI), 2026.
16. Ruiming Guo, Mouxing Yang, **Yijie Lin**, Xi Peng, Peng Hu. “Robust Contrastive Multi-view Clustering against Dual Noisy Correspondence.” Conference on Neural Information Processing Systems (NeurIPS), 2024.
17. Yiding Lu, **Yijie Lin**, Mouxing Yang, Dezhong Peng, Peng Hu, Xi Peng. “Decoupled Contrastive Multi-view Clustering with High-order Random Walks.” AAAI Conference on Artificial Intelligence (AAAI), 2024.

Awards and Honors

1. First Place, Track 2: Cognitive Ability Assessment, ACM MM 2026 AVI Grand Challenge (2026)
2. BYD Scholarship, Grand Prize, Sichuan University (2025)
3. Tencent Scholarship, Grand Prize, Sichuan University (2024)
4. National Scholarship, Ministry of Education of China (2023)
5. Huawei Scholarship, First Prize, Sichuan University (2022)
6. National Scholarship, Ministry of Education of China (2018)
7. Bronze Medal, China Collegiate Programming Contest (CCPC) (2018)

Academic Service

Conference Reviewer / Program Committee Member

- Conference on Neural Information Processing Systems (NeurIPS), since 2023
- International Conference on Learning Representations (ICLR), since 2023
- International Conference on Machine Learning (ICML), since 2023
- IEEE/CVF International Conference on Computer Vision (ICCV), since 2023
- AAAI Conference on Artificial Intelligence (AAAI), since 2023
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), since 2024
- European Conference on Computer Vision (ECCV), since 2024
- ACM International Conference on Multimedia (ACM MM), since 2024
- Annual Meeting of the Association for Computational Linguistics (ACL), since 2025
- British Machine Vision Conference (BMVC), since 2026

- ACM SIGGRAPH, since 2026

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Image Processing (TIP)
- ACM Transactions on Information Systems (TOIS)
- IEEE Transactions on Dependable and Secure Computing (TDSC)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMC)
- IEEE Transactions on Artificial Intelligence (TAI)
- Acta Automatica Sinica
- ACM Transactions on Knowledge Discovery from Data (TKDD)
- IEEE Transactions on Fuzzy Systems (TFS)
- IEEE Transactions on Multimedia (TMM)