

XINPENG LI

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EDUCATION

University of Texas at Dallas, Dallas, TX, U.S.A. *Aug. 2024 - Expected 2028*
Doctor of Philosophy in Computer Science; Advisor: Prof. [Yapeng Tian](#)

South China University of Technology, Guangzhou, P.R.China *Sept. 2018 - June 2021*
Master of Engineering in Signal and Information Processing; Advisor: Prof. [Dacheng Tao](#)

South China University of Technology, Guangzhou, P.R.China *Sept. 2014 - June 2018*
Bachelor of Engineering in Information Engineering

RESEARCH EXPERIENCE

IC Lab, Futurewei Technologies, Santa Clara, CA *May 2026 - Aug. 2026*
Computer Vision Research Intern Mentors: Drs. [Xiyun Song](#), [Heather Yu](#)
Develop multimodal agents to mitigate hallucinations in video social interaction understanding.

Computer Vision and Multimodal Computing Lab, UT Dallas *Aug. 2024 - Present*
Research Assistant Supervisor: Prof. [Yapeng Tian](#)
Develop multimodal LLMs for video social interaction understanding [P1, P2].

MIPS Lab, SZTU & VIP Lab, SUSTech *Jun. 2021 - Jul. 2024*
Research Assistant Mentors: Profs. [Xiaojiang Peng](#), [Feng Zheng](#), [Jinbao Wang](#)
Developed CNN-Transformer models for emotion, railway, and 3D anomaly detection [P3, P4, P5, P6].

SELECTED PUBLICATIONS

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1. **Omni-MMSI: Toward Identity-attributed Social Interaction Understanding.** [Website]
[Xinpeng Li](#), Bolin Lai, Hardy Chen, Shijian Deng, Cihang Xie, Yuyin Zhou, James M. Rehg, Yapeng Tian.
IEEE Conference on Computer Vision and Pattern Recognition, 2026.
 2. **Towards Online Multi-Modal Social Interaction Understanding.** [Website]
[Xinpeng Li](#), Shijian Deng, Bolin Lai, Weiguo Pian, James M. Rehg, Yapeng Tian.
Transactions on Machine Learning Research, 2026.
 3. **Facial Action Units as A Bridge of Joint Dataset Training.** [PDF]
Shuyi Mao, [Xinpeng Li](#), Fan Zhang, Xiaojiang Peng, Yang Yang.
IEEE Transactions on Multimedia, 2025.
 4. **Single-stage Emotion Recognition with Decoupled Subject-context Transformer.** [PDF]
[Xinpeng Li](#), Teng Wang, Jian Zhao, Shuyi Mao, Jinbao Wang, Feng Zheng, Xiaojiang Peng, Xuelong Li.
ACM International Conference on Multimedia, 2024.
 5. **Real3D-AD: A Dataset of Point Cloud Anomaly Detection.** [PDF]
Jiaqi Liu, Guoyang Xie, Ruitao Chen, [Xinpeng Li](#), Jinbao Wang, Yong Liu, Chengjie Wang, Feng Zheng.
NeurIPS Datasets and Benchmarks Track, 2023.
 6. **Rail Detection: An Efficient Row-based Network and A New Benchmark.** [PDF]
[Xinpeng Li](#), Xiaojiang Peng.
ACM International Conference on Multimedia, 2022.

TECHNICAL SKILLS & ACADEMIC SERVICE

Technical Skills: C, C++, Python, PyTorch, LLM Post-training, image and audio processing
Reviewer: ACM MM 2023–2024, ICCV 2025, CVPR 2026, NeurIPS 2026, ARR 2026
Teaching Assistant: Computer Science (Summer 2025); Operating Systems (Fall 2025, Spring 2026)