

# XINPENG LI

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## SUMMARY

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Ph.D. student in Computer Science at UT Dallas (advised by Prof. [Yapeng Tian](#)). My research includes multimodal large language models, audio-visual social signal processing, and dataset/benchmark development for human-centric interaction. I have published papers in ACM MM, IEEE TMM, NeurIPS and released multiple datasets, benchmarks, and open-source systems.

## EDUCATION

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**University of Texas at Dallas**, Dallas, TX, U.S.A. *Aug. 2024 - Present*

**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

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**Computer Vision and Multimodal Computing Lab, UT Dallas** *Aug. 2024 - Present*

Research Assistant

Supervisor: Prof. [Yapeng Tian](#)

- Research on **audio-visual pipelines** for multimodal social interaction datasets, covering speech diarization, active speaker detection, and representation learning
- Developed end-to-end **MLLM-based reasoning systems** on top of these pipelines, integrating forecasting and demo prototypes for online social interaction understanding

**MIPS Lab, SZTU & VIP Lab, SUSTech** *Jun. 2021 - Jul. 2024*

Research Assistant

Mentors: Profs. [Xiaojiang Peng](#), [Feng Zheng](#), [Jinbao Wang](#)

- Led projects on railway detection, emotion recognition and context-aware affective computing (MIPS) and contributed to dataset and benchmark design of 3D anomaly detection (VIP)
- Released datasets, benchmarks, and baseline models for railway detection, emotion recognition and anomaly detection, enabling reproducible multimodal research

## PUBLICATIONS (SELECTED)

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1. **Towards Online Multi-Modal Social Interaction Understanding.** [\[PDF\]](#) [\[Code\]](#)  
**Xinpeng Li**, Shijian Deng, Bolin Lai, Weiguo Pian, James M. Rehg, Yapeng Tian.  
*Preprint, 2025.*  
Proposed a VLM pipeline with forecasting and prompting for online social interaction understanding.
2. **Two in One Go: Single-stage Emotion Recognition with Decoupled Subject-context Transformer.** [\[PDF\]](#) [\[Code\]](#)  
**Xinpeng Li**, Teng Wang, Jian Zhao, Shuyi Mao, Jinbao Wang, Feng Zheng, Xiaojiang Peng, Xuelong Li.  
*ACM Multimedia, 2024.*  
Designed a decoupled subject-context transformer for robust visual emotion recognition.

3. **Facial Action Units as A Bridge of Joint Dataset Training for Facial Expression Recognition.** [\[PDF\]](#) [\[Code\]](#)  
 Shuyi Mao, **Xinpeng Li**, Fan Zhang, Xiaojiang Peng, Yang Yang.  
*IEEE Transactions on Multimedia*, 2024.  
 Leveraged facial action units as intermediate representations to improve multi-dataset learning.
4. **Real3D-AD: A Dataset of Point Cloud Anomaly Detection.** [\[PDF\]](#) [\[Code\]](#)  
 Jiaqi Liu, Guoyang Xie, Ruitao Chen, **Xinpeng Li**, Jinbao Wang, Yong Liu, Chengjie Wang, Feng Zheng.  
*NeurIPS Datasets and Benchmarks Track*, 2023.  
 Released the first real-world 3D point cloud anomaly detection dataset with standardized benchmarks.
5. **Rail Detection: An Efficient Row-based Network and A New Benchmark.** [\[PDF\]](#) [\[Code\]](#)  
**Xinpeng Li**, Xiaojiang Peng.  
*ACM Multimedia*, 2022.  
 Introduced a new row-based rail detection dataset and proposed an efficient row-based model.

## HONORS & AWARDS

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Top 11% in Competition on Affective Behavior Analysis in-the-wild (ECCV)	2022
Top 6% in Multimodal Sentiment Analysis Challenge (ACM MM)	2021
Top 9% in Short Video Face Parsing Challenge (CVPR)	2021
Multiple scholarships including National and University-level	2015-2020

## ACADEMIC SERVICES

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### Conference Reviewer:

ACM Multimedia 2024, ACM Multimedia 2023, ICCV 2025

### Teaching Assistant:

Computer Science II (CS2336) Summer 2025, Operating System (CS4348) Fall 2025