

# Xiangyan Liu

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## Education

<b>National University of Singapore</b> <i>Ph.D.</i> in Computer Science, School of Computing Advisor: <a href="#">Michael Qizhe Shieh</a>	Aug. 2024 - Present Singapore
<b>National University of Singapore</b> <i>M.Sc.</i> in Statistics, Department of Statistics and Data Science	Aug. 2022 - Jan. 2024 Singapore
<b>Shanghai University of Finance and Economics</b> <i>B.Sc.</i> in Data Science, School of Statistics and Management	Sep. 2018 - Jun. 2022 Shanghai, China

## Experience

<b>Sea AI Lab</b> Associate member, working with <a href="#">Tianyu Pang</a> , <a href="#">Chao Du</a> , and <a href="#">Longxu Dou</a>	Singapore Oct. 2024 – Present
<b>Alibaba Group, Tongyi Lab</b> Research intern, advised by <a href="#">Wenmeng Zhou</a>	Hangzhou, China Mar. 2024 – Aug. 2024
<b>WestLake University, LINs Lab</b> Visiting student, advised by <a href="#">Tao Lin</a>	Hangzhou, China May. 2023 – Nov. 2023
<b>National University of Singapore, NExT Research Centre</b> Research Intern, working with <a href="#">Wei Ji</a>	Singapore (Remote) Jan. 2023 – Nov. 2023

## Selected Publications

### NoisyRollout: Reinforcing Visual Reasoning with Data Augmentation

Xiangyan Liu\*, Jinjie Ni\*, Zijian Wu\*, Chao Du, Longxu Dou, Haonan Wang, Tianyu Pang, Michael Qizhe Shieh  
*arXiv preprint arXiv:2504.13055, 2025*

### CodexGraph: Bridging Large Language Models and Code Repositories via Code Graph Databases

Xiangyan Liu\*, Bo Lan\*, Zhiyuan Hu, Yang Liu, Zhicheng Zhang, Fei Wang, Michael Shieh, Wenmeng Zhou  
*North American Chapter of the Association for Computational Linguistics (NAACL), 2025*

### Towards Robust Multi-Modal Reasoning via Model Selection

Xiangyan Liu\*, Rongxue Li\*, Wei Ji, Tao Lin  
*International Conference on Learning Representations (ICLR), 2024*

### Online Distillation-Enhanced Multi-Modal Transformer for Sequential Recommendation

Wei Ji\*, Xiangyan Liu\*, An Zhang, Yinwei Weo, Yongxin Ni, Xiang Wang  
*ACM International Conference on Multimedia (ACM MM), Oral, 2023*

## Service

**Conference Reviewer:** ICLR (2025), NeurIPS (2024, 2025), ACM MM (2023, 2024)

## Skills

**Languages:** Python, R, SQL, Shell Script, Scala, LaTeX

**Frameworks and Tools:** PyTorch (Distributed Training), Hugging Face, vLLM, Ray, Spark, Docker

## Teaching

<b>Teaching Assistant</b> CS5260 - Neural Networks and Deep Learning II, National University of Singapore	Singapore Spring 2025
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