

Jingyang Xiang

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Education

Zhejiang University	2022/09 – 2025/03 (expected)
M.Eng. Student in Electronic Information	Hangzhou, China
• Advisor: Yong Liu	
Zhejiang University of Technology	2018/09 – 2022/06
B.E. in Electrical Engineering and Automation	Hangzhou, China
• Graduated with the highest distinction.	
• Advisor: Qi Xuan	

Research Interests

Machine Learning for Edge Scenarios, Sparse Network, Binary Neural Network

Publications

[1] **Jingyang Xiang**, Zuohui Chen, Siqu Li, Qing Wu, Yong Liu. “OvSW: Overcoming Silent Weights for Accurate Binary Neural Networks”. Submitted to *The 18th European Conference on Computer Vision (ECCV2024)*.

[2] **Jingyang Xiang**, Siqu Li, Junhao Chen, Zhuangzhi Chen, Tianxin Huang, Linpeng Peng, Yong Liu. “MaxQ: Multi-Axis Query for N:M Sparsity Network”. *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR2024)*.

[3] **Jingyang Xiang**, Siqu Li, Jun Chen, Guang Dai, Shipeng Bai, Yukai Ma, Yong Liu. “SUBP: Soft Uniform Block Pruning for 1xN Sparse CNNs Multithreading Acceleration”. *The 37th Conference on Neural Information Processing Systems (NeurIPS2023)*.

[4] Zhuangzhi Chen*, **Jingyang Xiang***, Yao Lu, Qi Xuan, Zhen Wang, Guanrong Chen, Xiaoniu Yang. “RGP: Neural Network Pruning Through Regular Graph With Edges Swapping”. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. (* Equal contribution)

[5] Zhuangzhi Chen*, Hui Cui*, **Jingyang Xiang**, Kunfeng Qiu, Liang Huang, Shilian Zheng, Shichuan Chen, Qi Xuan, Xiaoniu Yang. “SigNet: A Novel Deep Learning Framework for Radio Signal Classification”. *IEEE Transactions on Cognitive Communications and Networking (TCCN)*.

[6] Zuohui Chen, Renxuan Wang, **Jingyang Xiang**, Yue Yu, Xin Xia, Shouling Ji, Qi Xuan, Xiaoniu Yang. GGT: Graph-Guided Testing for Adversarial Sample Detection of Deep Neural Network. *Computers & Security*.

Honors & Awards

• Outstanding Undergraduates, Zhejiang University of Technology	2022
• Excellent Developer Evangelist, MindSpore	2021
• Provincial Government Scholarship, Zhejiang University of Technology	2019 - 2021

Open Source Experience

MindSpore & Ascend, Huawei	2020/09 – now
• Reproducing papers about computer vision based on MindSpore	
• Writing blogs about how to use MindSpore	

Skills

Programming Languages: Python, C/C++
Tech Skills: PyTorch, MindSpore, TensorFlow, Linux, Git, Latex