

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**, Siqi 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)*.
- [2] **Jingyang Xiang**, Siqi 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)*.
- [3] Zhuangzhi Chen*, **Jingyang Xiang***, Yao Lu, Qi Xuan, Zhen Wang, Guanrong Chen, Xiaoni Yang. “RGP: Neural Network Pruning Through Regular Graph With Edges Swapping”. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. (* Equal contribution)
- [4] Zhuangzhi Chen*, Hui Cui*, **Jingyang Xiang**, Kunfeng Qiu, Liang Huang, Shilian Zheng, Shichuan Chen, Qi Xuan, Xiaoni Yang. “SigNet: A Novel Deep Learning Framework for Radio Signal Classification”. *IEEE Transactions on Cognitive Communications and Networking (TCCN)*.
- [5] Zuohui Chen, Renxuan Wang, **Jingyang Xiang**, Yue Yu, Xin Xia, Shouling Ji, Qi Xuan, Xiaoni Yang. GGT: Graph-Guided Testing for Adversarial Sample Detection of Deep Neural Network. *Computers & Security*.
- [6] **Jingyang Xiang**, Zuohui Chen, Linpeng Peng, Siqi Li, Yuanyuan Ding, Huifeng Wu, Yong Liu. “Overcoming Oscillations in N:M Sparse Network Training”. *The Forty-first International Conference on Machine Learning (ICML2024)*. (under review)
- [7] **Jingyang Xiang**, Zuohui Chen, Siqi Li, Qing Wu, Yong Liu. “OvSW: Overcoming Silent Weights for Accurate Binary Neural Networks”. Submitted to *The 18th European Conference on Computer Vision ECCV 2024 (ECCV2024)*. (under review)
- [8] **Jingyang Xiang**, Zhuangzhi Chen, Jianbiao Mei, Siqi Li, Jun Chen, Lingbo Cheng, Yong Liu. “CR-SFP: Learning Consistent Representation for Soft Filter Pruning”. Submitted to *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*. (under review)
- [9] Jun Chen, **Jingyang Xiang**, Tianxin Huang, Xiangrui Zhao, Yong Liu. “Hyperbolic Binary Neural Network”. Submitted to *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. (under review)
- [10] Siqi Li, Jun Chen, **Jingyang Xiang**, Chengrui Zhu, Yong Liu. “AutoDFP: Automatic Data-Free Pruning via Channel Similarity Reconstruction”. Submitted to *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*. (under review)

Honors & Awards

- Excellent Developer Evangelist, MindSpore 2021
- Provincial Outstanding Undergraduates, Zhejiang University of Technology 2022
- 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

Last Updated: March, 2024