GEN LI

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EDUCATION

Ph.D. in Computer Engineering   *August 2022 - June 2027(expected)*
Clemson University, Clemson, SC
Advisor: Prof. Xiaolong Ma
M.S. in Computer Science   *August 2020 - May 2022*
University of Delaware, Newark, DE
B.E. in Software Engineering   *September 2016 - June 2020*
Wuhan Institute of Technology, Wuhan, China

AREA OF INTEREST

1. Efficient ML (pre-training/fine-tuning and inference, model compression)

2. Algorithm-hardware co-design for mobile device.

3. Fairness and robustness in broad AI application.

WORK EXPERIENCE

Clemson University   *09/2022 - current*
Research Assistant, *Advisor: Prof. Xiaolong Ma Co-advisor: Prof. Linke Guo*

University of Delaware   *01/2022 - 05/2022*
Teaching Assistant

AWARDS & HONORS

1. Highlight Paper, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

2. Spotlight Paper Award, ICLR 2023 Sparsity in Neural Networks (SNN) workshop.

PUBLICATIONS LIST

Conference Publication (∗ Equal Contribution)

1. [**23'CVPR**] [**Highlight paper: top 2.5%**] Gen Li, Jie Ji, Minghai Qin, Wei Niu, Bin Ren, Fatemeh Afghah, Linke Guo, Xiaolong Ma, "Towards High-Quality and Efficient Video Super-Resolution via Spatial-Temporal Data Overfitting", in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, 2023)

2. [**23'NeurIPS**] Lu Yin, Gen Li, Meng Fang, Li Shen, Tianjin Huang, Zhangyang Wang, Vlado Menkovski, Xiaolong Ma, Mykola Pechenizkiy, Shiwei Liu, "Dynamic Sparsity Is Channel-Level Sparsity Learner", in Proceedings of the 37th Conference on Neural Information Processing Systems (NeurIPS 2023, **acceptance rate: 26.1%**).

3. [**24'ICLR**] Gen Li, Lu Yin, Jie Ji, Wei Niu, Minghai Qin, Bin Ren, Linke Guo, Shiwei Liu, Xiaolong Ma, "NeurRev: Train Better Sparse Neural Network Practically via Neuron Revitalization."

4. [**24'ICML**] Jie Ji∗, Gen Li∗, Lu Yin, Minghai Qin, Geng Yuan, Linke Guo, Shiwei Liu, Xiaolong Ma, "Advancing Dynamic Sparse Training by Exploring Optimization Opportunities"

5. [**24'ICML**] Lu Yin, You Wu, Zhenyu Zhang, Cheng-Yu Hsieh, Yaqing Wang, Yiling Jia, <u>Gen Li</u>, Ajay Jaiswal, Mykola Pechenizkiy, Yi Liang, Michael Bendersky, Zhangyang Wang, Shiwei Liu "Advancing Dynamic Sparse Training by Exploring Optimization Opportunities"

6. [**24'ECCV**] <u>Gen Li</u>, Zhihao Shu, Jie Ji, Minghai Qin, Fatemeh Afghah, Wei Niu, Xiaolong Ma, "Data Overfitting for On-Device Super-Resolution with Dynamic Algorithm and Compiler Co-Design"

7. [**24'NeurIPS**] Jie Ji, <u>Gen Li</u>, Jingjing Fu, Fatemeh Afghah, Linke Guo, Xiaoyong Yuan, Xiaolong Ma, "A Single-Step, Sharpness-Aware Minimization is All You Need to Achieve Efficient and Accurate Sparse Training"

8. [**25'S&P**] <u>Gen Li</u>, Chun-Chih Lin, Xiaonan Zhang, Xiaolong Ma, Linke Guo, "Adversarial Robust ViT-based Automatic Modulation Recognition in Practical Deep Learning-based Wireless Systems"

Workshop Publication

1. [**23'ICLR-SNN**] [**Spotlight Paper**] Lu Yin, <u>Gen Li</u>, Meng Fang, Li Shen, Tianjin Huang, Zhangyang Wang, Vlado Menkovski, Xiaolong Ma, Mykola Pechenizkiy, Shiwei Liu, "Dynamic Sparsity is Channel-Level Sparsity Learner", (ICLR 2023 Sparsity in Neural Networks workshop).

PROFESSIONAL ACTIVITIES

- **Technical Program Committee member / Reviewer:**
  IEEE Transactions on Multimedia
  IEEE Transactions on Information Forensics & Security
  Conference on Parsimony and Learning (CPAL 2024)
  The International Conference on Learning Representations (ICLR2025)