

JIE JI

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EDUCATION

Ph.D. in Computer Engineering
Clemson University, Clemson, SC,
Advisor: Prof. Xiaolong Ma

January 2023 - current
GPA: 4.00/4.00

M.S. in Applied Mathematics
Northeastern University, Boston, MA
College of Science

September 2020 - December 2022
GPA: 3.93/4.00

B.E. in Statistics
Tongji University, Shanghai, China
College of Mathematical Sciences

September 2016 - July 2020

AREA OF INTEREST

1. Efficient 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
Research Assistant, Advisor: Prof. Xiaolong Ma

01/2023 - current

Massachusetts General Hospital
Research Intern, Advisor: Dr. Sharon Dekel

07/2021 - 12/2021

AWARDS & HONORS

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

PUBLICATIONS LIST

Conference Publication

1. [24'NeurIPS] [Jie Ji](#), Gen Li, 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"
2. [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"
3. [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)
4. [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."
5. [24'ECCV] Gen Li, 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"

Workshop Publication

1. [22'NECV] Jie Ji, Gen Li, Xiaolong Ma, "Spatial-Temporal Data Overfitting for High-Quality and Efficient Video Delivery", in New England Computer Vision Workshop, 2022.
2. [23'SC EPSCoR] Jie Ji, Gen Li, Xiaolong Ma, "Spatial-Temporal Data Overfitting for High-Quality and Efficient Video Delivery", in South Carolina's Established Program to Stimulate Competitive Research, 2023.
3. [23'ICCV-WICV] Jie Ji, Gen Li, Xiaolong Ma, "Towards High-Quality and Efficient Video Super-Resolution via Spatial-Temporal Data Overfitting", in Women in Computer Vision workshop in conjunction with ICCV, 2023.

PROFESSIONAL ACTIVITIES

- **Technical Program Committee member / Reviewer:**
 - Conference on Parsimony and Learning (CPAL 2024).
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2024).
 - IEEE Transactions on Mobile Computing (2023).
 - Conference on Neural Information Processing Systems (NeurIPS 2024).
 - Computer Networks (2024).
 - Association for the Advancement of Artificial Intelligence (AAAI 2025).
 - International Conference on Artificial Intelligence and Statistics (AISTATS 2025).
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2025).
 - The International Conference on Learning Representations (ICLR2025).