

Computer Science and Engineering Department  
Michigan State University  
East Lansing, MI 48823, USA

Mobile: (+1)-352-870-5374  
Email: [jiajingh@msu.edu](mailto:jiajingh@msu.edu)  
Website: [Homepage](#)

---

## RESEARCH FOCUSES

**Deep learning:** Trustworthy Machine Learning (Machine Unlearning, Adversarial Learning, OOD), Computer Vision (Diffusion-based Generation, image reconstruction/classification), Natural language processing (LLMs, AI4Code, etc), Multi-Modality (Video Understanding, etc)

**Optimization:** Bi-level optimization, Zeroth-order black-box optimization

---

## EDUCATION

**Ph.D. Candidate in Computer Science, Michigan State University** Aug. 2021– Present

**M.S. in Electrical and Computer Engineering, University of Florida** Aug. 2019– May. 2021

**B.Eng in Computer Science, Univ. of Science and Technology of China** Sep. 2015– July 2019

---

## PUBLICATIONS

### [Google Scholar](#)

- [1] **J. Jia**, J. Liu, et al. "[Model sparsity can simplify machine unlearning](#)", *NeurIPS'23 - Spotlight*.
- [2] Y. Zhang, Y. Zhang, A. Chen, **J. Jia**, et al. "[Selectivity Drives Productivity: Efficient Dataset Pruning for Enhanced Transfer Learning](#)", *NeurIPS'23*
- [3] **J. Jia**, S. Srikant, T. Mitrovska, S. Chang, S. Liu, U. O'Reilly, "[Having Both: Robust and Accurate Code Models](#)", *SANER'23*
- [4] B. Hou, **J. Jia**, Y. Zhang, G. Zhang, S. Liu, S. Chang, "[TextGrad: Advancing Robustness Evaluation in NLP by Gradient-Driven Optimization](#)", *ICLR'23*
- [5] Y. Zhang, X. Chen, **J. Jia**, S. Liu, K. Ding, "[Text-Visual Prompting for Efficient 2D Temporal Video Grounding](#)", *CVPR'23*
- [6] H. Li, **J. Jia**, S. Liang, Y. Yao, S. Ravishankar, S. Liu, "[SMUG: Towards robust MRI reconstruction by smoothed unrolling](#)", *ICASSP'23*
- [7] **J. Jia**, Y. Zhang, D. Song, S. Liu, A. Hero, "[Robustness-preserving Lifelong Learning via Dataset Condensation](#)", *ICASSP'23*
- [8] **J. Jia**, M. Hong, Y. Zhang, M. Akçakaya, S. Liu, "[On the Robustness of deep learning-based MRI Reconstruction to image transformations](#)", *NeurIPS'22 workshop*
- [9] Y. Zhang, Y. Yao, **J. Jia**, J. Yi, M. Hong, S. Chang, S. Liu, "[How to Robustify Black-Box ML Models? A Zeroth-Order Optimization Perspective](#)", International Conference on Learning Representation *ICLR'22 - Spotlight*
- [10] **J. Jia**, C. Zhang, B. Yaman, S. Moeller, S. Liu, M. Hong, M. Akçakaya, "[On Instabilities of Conventional Multi-Coil MRI Reconstruction to Small Adversarial Perturbations](#)", International Society for Magnetic Resonance in Medicine *ISMRM'21 - Oral*

---

## PREPRINT

- [1] A. Chen, Y. Zhang, **J. Jia**, et al. "[DeepZero: Scaling up Zeroth-order Optimization for Deep Model Training](#)".
- [2] **J. Jia**, Y. Zhang, et al. "[To Generate or Not? Safety-Driven Unlearned Diffusion Models Are Still Easy To Generate Unsafe Images... For Now](#)".

---

**ACADEMIC ACTIVITIES**

---

- **Contributors to code demos** for NeurIPS'22 tutorial: Foundational Robustness of Foundation Models.
- **Reviewer:** ICASSP'22/23/24, ICML'22, ICLR'22/23/24, NeurIPS'22/23, CVPR, AAAI'24, AIS-TATS'24
- **TPC** for KDD'22 Workshop 4th Workshop on Adversarial learning Methods for Machine learning and Data Mining
- **Student Chair** for ICML'22 and ICML'23 Workshop AdvML:New Frontiers in Adversarial Machine Learning.

---

**WORK EXPERIENCE**

---

- Applied Science Intern, Amazon, 2023
- Machine Learning Algorithm Engineering Intern, Zoom, 2018

---

**AWARD**

---

- NeurIPS Scholar Award, 2023
- Herbert Wertheim College of Engineering Achievement Award Scholarship, 2019&2020
- USTC Outstanding Student Scholarship, 2018
- USTC Newly Enrolled Students Scholarship, 2015

---

**SKILLS**

---

- **Programming Languages** Python, MATLAB, C++, Java, C
- **Libraries** Pytorch, Huggingface, TensorFlow, Numpy, Matplotlib