

Chongyu Fan

Ph.D. Student in Computer Science

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Personal Information

I am a first-year Ph.D. student in computer science at Michigan State University advised by Dr. Sijia Liu. My research interests lie in the trustworthy and scalable Machine Learning algorithms.

Education

Doctor of Computer Science

2024.08 - Present

Michigan State University, East Lansing, USA

Advisor: Dr. Sijia Liu

OPTML Lab

Bachelor of Engineering

2020.09 - 2024.06

Huazhong University of Science and Technology, Wuhan, China

Outstanding Graduate

GPA: 3.96/4.0

Publications

Preprint Paper

- [P1] Y. Zhang, **C. Fan**, Y. Zhang, Y. Yao, J. Jia, J. Liu, G. Zhang, G. Liu, R. Kompelia, X. Liu, S. Liu. *UnlearnCanvas: Stylized Image Dataset for Enhanced Machine Unlearning Evaluation in Diffusion Models.*, [PDF], [Code], [Website].
- [P2] Y. Zhang, X. Chen, J. Jia, Y. Zhang, **C. Fan**, J. Liu, M. Hong, K. Ding, S. Liu.. *Defensive Unlearning with Adversarial Training for Robust Concept Erasure in Diffusion Models.*, [PDF], [Code].

Conference Paper

- [C1] **C. Fan***, J. Liu*, Y. Zhang, D. Wei, E. Wong, S. Liu. *Salun: Empowering machine unlearning via gradient-based weight saliency in both image classification and generation.* 12th International Conference on Learning Representations (ICLR'24 - **Spotlight**), [PDF], [Code], [Website].
- [C2] **C. Fan***, J. Liu*, A. Hero, S. Liu. *Challenging forgets: Unveiling the worst-case forget sets in machine unlearning.* 18th European Conference on Computer Vision (ECCV'24), [PDF], [Code].

Professional Activities

- **Reviewer:** NeurIPS, AISTATS

Achievements/Awards

Undergraduate

- Awarded **2nd** in the National Collegiate Mapping and Modeling Competition (2021).
- Awarded **2nd** in the Central China Mathematical Modeling Challenge (2021).
- Awarded **2nd** in the Mathercup Collegiate Mathematical Modeling Challenge (2022).
- Received **the Patent for Utility Model:** A lipreading method (2022).