

# Chongyu Fan

*Ph.D. Student in Computer Science*

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## Personal Information

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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

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### 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

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### Preprint Paper

[P1] **C. Fan\***, J. Liu\*, L. Lin\*, J. Jia, R. Zhang, S. Mei, S. Liu. *Simplicity Prevails: Rethinking Negative Preference Optimization for LLM Unlearning.*, [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].

[C3] 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.* 30th Annual Conference on Neural Information Processing Systems(Neurips'24), [PDF], [Code], [Website].

[C4] 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.* 30th Annual Conference on Neural Information Processing Systems(Neurips'24), [PDF], [Code].

## Professional Activities

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- **Reviewer:** NeurIPS, ICLR, AISTATS

## Achievements/Awards

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### Undergraduate

- Awarded 2<sup>nd</sup> in the National Collegiate Mapping and Modeling Competition (2021).
- Awarded 2<sup>nd</sup> in the Central China Mathematical Modeling Challenge (2021).

- Awarded 2<sup>nd</sup> in the Mathercup Collegiate Mathematical Modeling Challenge (2022).
- Received [the Patent for Utility Model: A lipreading method](#) (2022).