

# Chongyu Fan

*Ph.D. Student in Computer Science*

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## Personal Information

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I am a second-year Ph.D. student in computer science at Michigan State University advised by Dr. Sijia Liu. My research focuses on trustworthy and efficient algorithms, including machine unlearning and efficient reasoning.

## Education Experience

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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

## Work Experience

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### Research Scientist Intern

2025.05 - 2025.08

ByteDance, San Jose, USA

Advisor: Dr. Jian Du

## Publications

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### Conference Papers

- [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].
- [C5] **C. Fan\***, J. Jia\*, Y. Zhang, A. Ramakrishna, M. Hong, S. Liu. *Towards LLM Unlearning Resilient to Relearning Attacks: A Sharpness-Aware Minimization Perspective and Beyond.*, 42th International Conference on Machine Learning (ICML'25), [PDF], [Code].

### Preprint Papers

- [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].

- [P2] **C. Fan**, Y. Zhang, J. Jia, A. Hero, S. Liu. *CyclicReflex: Improving Large Reasoning Models via Cyclical Reflection Token Scheduling*. [PDF], [Code].
- [P3] C. Wang\*, **C. Fan\***, Y. Zhang, J. Jia, D. Wei, P. Ram, N. Baracaldo, S. Liu. *Reasoning Model Unlearning: Forgetting Traces, Not Just Answers, While Preserving Reasoning Skills*. [PDF], [Code].
- [P4] J. Jia, H. Reisizadeh, **C. Fan**, N. Baracaldo, M. Hong, S. Liu. *EPiC: Towards Lossless Speedup for Reasoning Training through Edge-Preserving CoT Condensation*. [PDF], [Code].
- [P5] J. Lee, Z. Mai, **C. Fan**, WL. Chao. *An Empirical Exploration of Continual Unlearning for Image Generation*. [PDF].

## Professional Activities

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