

MSU OPTML Lab @ NeurIPS 2024

Menu of Innovations

Conference Papers | East Exhibit Hall A-C

[From Trojan Horses to Castle Walls: Unveiling Bilateral Data Poisoning Effects in Diffusion Models](#)

Chefs: Zhuoshi Pan*, Yuguang Yao*, Gaowen Liu, Bingquan Shen, H. Vicky Zhao, Ramana Kompella, Sijia Liu (Equal contribution)

Serving Time: Wed (Dec. 11) 11:00-14:00, Poster #4602

Key Ingredients: Backdoor Attack, Diffusion Models

[UnlearnCanvas: Stylized Image Dataset for Enhanced Machine Unlearning Evaluation in Diffusion Models](#)

Chefs: Yihua Zhang, Chongyu Fan, Yimeng Zhang, Yuguang Yao, Jinghan Jia, Jiancheng Liu, Gaoyuan Zhang, Gaowen Liu, Ramana Kompella, Xiaoming Liu, Sijia Liu

Serving Time: Wed (Dec. 11) 16:30-19:30, Poster #4309

Key Ingredients: Machine Unlearning, Diffusion Models, Benchmark

[WAGLE: Strategic Weight Attribution for Effective and Modular Unlearning in Large Language Models](#)

Chefs: Jinghan Jia, Jiancheng Liu, Yihua Zhang, Parikshit Ram, Nathalie Baracaldo, Sijia Liu

Serving Time: Thu (Dec. 12) 16:30-19:30, Poster #4300

Key Ingredients: Large Language Models, Modularity, Unlearning

[Defensive Unlearning with Adversarial Training for Robust Concept Erasure in Diffusion Models](#)

Chefs: Yimeng Zhang, Xin Chen, Jinghan Jia, Yihua Zhang, Chongyu Fan, Jiancheng Liu, Mingyi Hong, Ke Ding, Sijia Liu

Serving Time: Fri (Dec. 13) 11:00-14:00 Poster #2509

Key Ingredients: Adversarial Unlearning, Diffusion Models

Workshop Organization & Papers

[The 3rd New Frontiers In Adversarial Machine Learning](#)

Saturday (Dec. 14) | East Ballroom C

[Adversarial Watermarking for Face Recognition](#)

Chefs: Yuguang Yao, Anil Jain, Sijia Liu

Serving Time: Sat (Dec. 14), AdvML-Frontiers Workshop (East Ballroom C)

Key Ingredients: Watermarking, Adversarial Attacks, Biometrics

[Rethinking Negative Preference Optimization for LLM Unlearning](#)

Chefs: Chongyu Fan*, Jiancheng Liu*, Licong Lin*, Jinghan Jia, Ruiqi Zhang, Song Mei, Sijia Liu (Equal contribution)

Serving Time: Sun (Dec. 15), SafeGenAI Workshop (Exhibition Hall A)

Key Ingredients: Preference Optimization, LLM Unlearning

A Heartfelt Thank You to Our Incredible Collaborators

