

Bingqi Shang

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RESEARCH INTERESTS

Trustworthy Machine Learning: Machine Unlearning, Alignment & RLHF, Adversarial Machine Learning, Privacy

EDUCATION

Michigan State University (MSU) Incoming Ph.D. Student, Computer Science	Aug. 2025 - Present Advisor: Prof. Sijia Liu
Northwestern University (NU) M.S., Computer Science	Sep. 2023 - Jun. 2025 (expected) Advisors: Prof. Qi Zhu and Prof. Xiao Wang
Tongji University B.E., Software Engineering	Sep. 2019 - Jun. 2023 School of Computer Science and Technology

RESEARCH EXPERIENCE

On the Adversarial Implications of Attention Sinks in LLMs Apr. 2025 - Present
Supervisor: [Prof. Sijia Liu](#) (MSU)

- Investigating attention sinks in LLMs to develop more effective backdoor poisoning attacks.
- Exploring applications in unlearned models where backdoor triggers can selectively recover forgotten knowledge.

Privacy-Preserving Tuning for Large Models Dec. 2023 - Mar. 2025
Supervisors: [Prof. Qi Zhu](#) (NU), [Prof. Xiao Wang](#) (NU)

- Developed Split Adaptation (SA) to ensure **data privacy** during adaptation of pre-trained Vision Transformers (ViTs), utilizing bi-level noise injection for privacy-preserving downstream tasks without data sharing.
- Protected **model privacy** by sharing only a low-bit quantized frontend of the ViT, preventing model leakage and ensuring secure adaptation.
- **Publication:** [\[1\]](#)

PROFESSIONAL EXPERIENCE

Cloud Native Computing Foundation *Remote* Mar. 2023 - May 2023
Software Engineer Intern, Supervisor: Patrick Zheng
Project: KMS plugin for Notation CLI using Go.

SAP Shanghai, China Jun. 2022 - Mar. 2023
Cloud Developer Intern, Supervisor: April Qi
Project: Cloud Provider Exporter in Go on Kubernetes for AWS, Azure, and GCP, using Prometheus and Grafana.

PUBLICATIONS

* indicates an equal contribution

[\[1\]](#) Lixu Wang*, [Bingqi Shang*](#), Yi Li, Payal Mohapatra, Wei Dong, Xiao Wang, Qi Zhu. [Split Adaptation for Pre-trained Vision Transformers](#). *CVPR'2025*.

HONORS

- Shanghai Outstanding Graduate Award 2023
- Outstanding Undergraduate Dissertation Award of Tongji University 2023
- **National Scholarship** (Top 0.2%, highest undergraduate honor in China) 2020

PERSONAL INTERESTS

[Astrophotography](#) 2019 - Present

PROFESSIONAL SKILLS

Programming Languages: Python, Go, C++, Java, Rust, JavaScript, Latex, HTML, CSS
Machine Learning Systems: PyTorch, Transformers, W&B, OpenCV, Scikit-learn