Bingqi Shang

Website | **☎ Google Scholar** | **۞ GitHub** | **☎** bshang@msu.edu | **♂** (872) 304-8591

RESEARCH INTERESTS

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

EDUCATION

Michigan State University (MSU)

Incoming Ph.D. Student, Computer Science

Northwestern University (NU)

M.S., Computer Science

Tongji University

B.E., Software Engineering

Aug. 2025 - Present

Advisor: Prof. Sijia Liu

Sep. 2023 - Jun. 2025 (expected)

Advisors: Prof. Qi Zhu and Prof. Xiao Wang

Sep. 2019 - Jun. 2023

Dec. 2023 - Mar. 2025

Mar. 2023 - May 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

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*

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 Pretrained Vision Transformers. CVPR'2025.

Honors

Shanghai Outstanding Graduate Award	2023
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• Outstanding Undergraduate Dissertation Award of Tongji University

2023 2020

• National Scholarship (Top 0.2%, highest undergraduate honor in China)

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Services

Journal Reviewer: IEEE TSP

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

Last updated: July 1, 2025.