

# Bingqi Shang

 [Website](#) |  [Google Scholar](#) |  [GitHub](#) |  [bshang@msu.edu](mailto:bshang@msu.edu)

## RESEARCH INTERESTS

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

**Generative AI:** Large-language Model, Multi-modal Language Model, Reasoning, Post-training

## EDUCATION

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**Michigan State University (MSU)**

Ph.D., Computer Science

Sep. 2025 - Present

Advisor: [Prof. Sijia Liu](#)

**Northwestern University (NU)**

M.S., Computer Science

Sep. 2023 - Jun. 2025

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

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**Backdooring Machine Unlearning via Attention Sinks**

Apr. 2025 - Oct. 2025

Supervisor: [Prof. Sijia Liu](#) (MSU)

- Exposed a vulnerability in LLM unlearning: attention-sink-guided backdoors can **reactivate** forgotten behaviors.
- Exploring applications in unlearned models where backdoor triggers can selectively recover forgotten knowledge.
- Publication:** [1].

**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:** [2].

## PROFESSIONAL EXPERIENCE

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**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

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\* indicates an equal contribution

[1] [Bingqi Shang\\*](#), Yiwei Chen\*, Yihua Zhang, Bingquan Shen, Sijia Liu. **Forgetting to Forget: Attention Sink as A Gateway for Backdooring LLM Unlearning.** *arXiv'2025*.

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

## HONORS

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

## SERVICES

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**Journal Reviewer:** IEEE Transactions on Signal Processing

## PERSONAL INTERESTS

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**Astrophotography**

2019 - Present

## PROFESSIONAL SKILLS

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**Programming Languages:** Python, Go, C++, Java, Rust,  $\LaTeX$ , HTML, CSS, JavaScript

**Machine Learning Systems:** PyTorch, Transformers, Huggingface, W&B, OpenCV, Scikit-learn