





# Bingqi Shang

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## RESEARCH INTERESTS

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

## EDUCATION

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

## RESEARCH EXPERIENCE

<b>On the Adversarial Implications of Attention Sinks in LLMs</b> Supervisor: <a href="#">Prof. Sijia Liu</a> (MSU)	Apr. 2025 - Present
<ul style="list-style-type: none"><li>Investigating attention sinks in LLMs to develop more effective backdoor poisoning attacks.</li><li>Exploring applications in unlearned models where backdoor triggers can selectively recover forgotten knowledge.</li></ul>	
<b>Privacy-Preserving Tuning for Large Models</b> Supervisors: <a href="#">Prof. Qi Zhu</a> (NU), <a href="#">Prof. Xiao Wang</a> (NU)	Dec. 2023 - Mar. 2025
<ul style="list-style-type: none"><li>Developed Split Adaptation (SA) to ensure <b>data privacy</b> during adaptation of pre-trained Vision Transformers (ViTs), utilizing bi-level noise injection for privacy-preserving downstream tasks without data sharing.</li><li>Protected <b>model privacy</b> by sharing only a low-bit quantized frontend of the ViT, preventing model leakage and ensuring secure adaptation.</li><li><b>Publication:</b> <a href="#">[1]</a></li></ul>	

## PROFESSIONAL EXPERIENCE

<b>Cloud Native Computing Foundation Remote</b> Software Engineer Intern, Supervisor: Patrick Zheng Project: KMS plugin for Notation CLI using Go.	Mar. 2023 - May 2023
<b>SAP Shanghai, China</b> Cloud Developer Intern, Supervisor: April Qi Project: Cloud Provider Exporter in Go on Kubernetes for AWS, Azure, and GCP, using Prometheus and Grafana.	Jun. 2022 - Mar. 2023

## 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

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| • Shanghai Outstanding Graduate Award  | 2023 |
| • Outstanding Undergraduate Dissertation Award of Tongji University            | 2023 |
| • <b>National Scholarship</b> (Top 0.2%, highest undergraduate honor in China) | 2020 |

## PERSONAL INTERESTS

<a href="#">Astrophotography</a>	2019 - Present
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## PROFESSIONAL SKILLS

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**Programming Languages:** Python, Go, C++, Java, Rust, JavaScript, Latex, HTML, CSS

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