

## Education Background

- Aug. 2021 - **Ph.D. Candidate**, Department of Computer Science, School of Computing, Present National University of Singapore, Singapore.
- Supervisor: Prof. Mohan Kankanhalli.
  - Research field: safety in machine learning [1, 2, 3, 4, 5, 6].
- Sep. 2017 - **Undergraduate**, Taishan College, Shandong University, Jinan, China.
- Jun. 2021
- Advisor: Prof. Lizhen Cui and Prof. Jingfeng Zhang.
  - Research field: adversarial machine learning [7, 8, 9].

## Research Work

- [1] Xilie Xu, Jingfeng Zhang, and Mohan Kankanhalli. Autolora: A parameter-free automated robust fine-tuning framework. In *The Twelfth International Conference on Learning Representations (ICLR)*, 2024.
- [2] Xilie Xu\*, Keyi Kong\*, Ning Liu, Lizhen Cui, Di Wang, Jingfeng Zhang, and Mohan Kankanhalli. An LLM can fool itself: A prompt-based adversarial attack. In *The Twelfth International Conference on Learning Representations (ICLR)*, 2024.
- [3] Xilie Xu\*, Keyi Kong\*, Ning Liu, Lizhen Cui, Di Wang, Jingfeng Zhang, and Mohan Kankanhalli. Advglue-gpt: Towards effective and efficient robustness evaluation of large language models. *AAAI Workshop on Responsible Language Models*, 2024.
- [4] Xilie Xu\*, Jingfeng Zhang\*, Feng Liu, Masashi Sugiyama, and Mohan Kankanhalli. Efficient adversarial contrastive learning via robustness-aware coreset selection. In *The 37th Neural Information Processing Systems Annual Conference (NeurIPS)*, 2023.
- [5] Xilie Xu\*, Jingfeng Zhang\*, Feng Liu, Masashi Sugiyama, and Mohan Kankanhalli. Enhancing adversarial contrastive learning via adversarial invariant regularization. In *The 37th Neural Information Processing Systems Annual Conference (NeurIPS)*, 2023.
- [6] Xilie Xu\*, Jingfeng Zhang\*, Feng Liu, Masashi Sugiyama, and Mohan Kankanhalli. Adversarial attack and defense for non-parametric two-sample tests. In *The 39th International Conference on Machine Learning (ICML)*, 2022.
- [7] Jingfeng Zhang\*, Xilie Xu\*, Bo Han, Tongliang Liu, Gang Niu, Lizhen Cui,

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<sup>0</sup>An asterisk (\*) beside authors' names indicates equal contributions.

and Masashi Sugiyama. Noilin: Improving adversarial training and correcting stereotype of noisy labels. *Transactions on Machine Learning Research*, 2022.

- [8] Chen Chen\*, Jingfeng Zhang\*, Xilie Xu, Lingjuan Lyu, Chaochao Chen, Tianlei Hu, and Gang Chen. Decision boundary-aware data augmentation for adversarial training. *IEEE Transactions on Dependable and Secure Computing*, 2022.
- [9] Jingfeng Zhang\*, Xilie Xu\*, Bo Han, Gang Niu, Lizhen Cui, Masashi Sugiyama, and Mohan Kankanhalli. Attacks which do not kill training make adversarial learning stronger. In *The 37th International Conference on Machine Learning (ICML)*, 2020.

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## Professional Service

- 2021-Present **Conference reviewer at NeurIPS’[21-23], ICML’[22-23], ICLR’[22-24].**
- 2022-Present **Journal reviewer at TAI, TMLR, IPL.**
- Apr. 2023 **Create the website of N-CRiPT Technical Workshop 2023 [link] and present a poster at the workshop, National University of Singapore.**
- Oct. 2022 **Member of the executive group of TrustML Young Scientist Seminars, RIEKN-AIP, Tokyo.**
- Apr. 2022 **Student reviewing member of the Master of Computing admission, School of Computing, National University of Singapore.**

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## Award&Grant

- Dec. 2023 **Postgraduate Student Travel Grant, 4000 SGD, School of Computing, National University of Singapore.**
- Oct. 2023 **NeurIPS 2023 Scholar Award, NeurIPS 2023.**
- Aug. 2022 **Postgraduate Student Travel Grant, 3100 SGD, School of Computing, National University of Singapore.**
- Aug. 2022 **Research Achievement Award, School of Computing, National University of Singapore.**
- Jun. 2022 **ICML 2022 Participation Grant, ICML 2022.**
- Oct. 2021 **Outstanding Reviewer Award, NeurIPS 2021.**
- Jun. 2021 **Outstanding Undergraduate Thesis Award, Shandong University.**
- Sep. 2020 **Specialty Scholarship (Research Innovation Award), First Prize, Shandong University.**
- Sep. 2018 - Sep. 2020 **Outstanding Student Scholarship, Shandong University.**
- Oct. 2018 **First Prize at the 10th Mathematics Competition of Chinese College Student, Chinese Mathematical Society.**

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## Internship

Jun. 2021 - **Research Intern**, Department of Ant Group-CRO Line-Security and Risk Management, Ant Z Space, Hangzhou, China.

- Mentor: Dr. Lingjuan Lyu.
- Research topic: adversarial machine learning and privacy.
- Result: Proposed an innovative patent to protect model intellectual property and data privacy.

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## Teaching

Jan. 2024 - **Teaching assistant for CS5342 Multimedia Computing and Applications**, School of Computing, National University of Singapore.  
May 2024

Jan. 2024 - **Teaching assistant for CS3244 Machine Learning**, School of Computing, National University of Singapore.  
May 2024

Aug. 2023 - **Teaching assistant for CS3244 Machine Learning**, School of Computing, National University of Singapore.  
Dec. 2023

Jan. 2022 - **Teaching assistant for CS5242 Deep Learning and Neural Networks**, School of Computing, National University of Singapore.  
May. 2022