

# Taoran Li

taoranl2@tamu.edu | +1-217-819-9251 | taoranl2.github.io  
College Station, TX, US

## RESEARCH INTERESTS

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Computer Security & Privacy, Trustworthy Machine Learning, AI Safety, Applied Cryptography

## EDUCATION

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<b>Texas A&amp;M University</b> <i>Doctor of Philosophy in Computer Science</i> Advisor: Prof. Zhiyuan Yu	College Station, TX, US Jan. 2026 – Present
<b>University of Illinois at Urbana-Champaigns</b> <i>Master of Engineering in Computer Engineering</i> Advisor: Prof. Varun Chandrasekaran	Urbana, IL, US Aug. 2023 – Dec. 2024
<i>Bachelor of Science in Computer Engineering</i>	Aug. 2018 – Jun. 2023
<b>Zhejiang University</b> <i>Bachelor of Engineering in Computer Engineering</i>	Hangzhou, China Aug. 2018 – Jun. 2023

## APPOINTMENTS

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<b>University of Illinois at Urbana-Champaign</b> <i>Academic Hourly Employee</i> Advisor: Prof. Varun Chandrasekaran	Urbana, IL, US Jan. 2025 – Dec. 2025
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## PUBLICATIONS

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(\* indicates equal contribution)

- Xiaomin Li\*, Mingye Gao\*, Yuexing Hao, **Taoran Li**, Guangya Wan, Zihan Wang, Yijun Wang.  
**MedGUIDE: Benchmarking Clinical Decision-Making in Large Language Models**  
*Under review at the 43rd International Conference on Machine Learning (ICML 2026)*. arXiv: [2505.11613](#).
- Qilong Wu\*, **Taoran Li\***, Tianyang Zhou\*, Varun Chandrasekaran.  
**SoK: Understanding (New) Security Issues Across AI4Code Use Cases.**  
*Under review at Network and Distributed System Security Symposium (NDSS 2027)*. arXiv: [2512.18456](#).
- Hengrui Jia, **Taoran Li**, Jonas Guan, Varun Chandrasekaran.  
**The Metric Mirage: A False Sense of Unlearning**  
*Under review at Network and Distributed System Security Symposium (NDSS 2027)*. arXiv: [2512.19025](#).
- Taoran Li**, Varun Chandrasekaran, Zhiyuan Yu.  
**One Layer to Forget Them All: Enabling Multilingual Knowledge Erasure via Language-Agnostic Layers**  
*Under review at the Fortieth Annual Conference on Neural Information Processing Systems (NeurIPS 2026)*.  
arXiv: [2602.22562](#).
- Taoran Li**, Zhiyuan Yu.  
**CounterFlow: Securing LLM Agents via Graph Counterfactuals**  
*Under review at the 33rd ACM Conference on Computer and Communications Security (CCS 2026)*.
- Xiaomin Li, Jianheng Hou, Zheyuan Deng, Zhiwei Zhang, **Taoran Li**, Binghang Lu, Bing Hu, Yunhan Zhao, Yuexing Hao.  
**Chain of Risk: Safety Failures in Large Reasoning Models and Mitigation via Adaptive Multi-Principle Steering**  
*Under review at the Fortieth Annual Conference on Neural Information Processing Systems (NeurIPS 2026)*.  
arXiv: [2605.05678](#).
- Rui Sun, Peizhao Mei, Xiwei Cheng, Kaizhuo Chen, **Taoran Li**, Zhiyuan Yu, Varun Chandrasekaran.  
**Same Answer, Different Reasons: Trace-Level Divergence in Multilingual Large Language Models**  
*Under review at the Fortieth Annual Conference on Neural Information Processing Systems (NeurIPS 2026)*.

8. Xinhang Ma, **Taoran Li**, Chaowei Xiao, Zhiyuan Yu, Ning Zhang, Yevgeniy Vorobeychik.  
**AutoDojo: Adaptive Attacks Expose Superficial Defenses and User-Underspecification Limits in LLM Agents**  
*Under review at the 48th IEEE Symposium on Security and Privacy (S&P 2027).* arXiv: [2606.15057](https://arxiv.org/abs/2606.15057).

## SELECTED PROJECTS

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**Zk-SNARK (Gnark) for Secure String Matching** Aug. 2024 – Dec. 2024

*Advisor: Prof. Yupeng Zhang*

- Developed a platform for secure string matching using zk-SNARKs to monitor sensitive info leaks.
- Leveraged the Gnark library to generate efficient verifiable proofs for private data verification.
- Optimized performance using sliding window technique and Rabin-Karp algorithm.
- arXiv: [2505.13964](https://arxiv.org/abs/2505.13964).

**Checking Consistency Is Not Good Enough (MPC Security)** Jan. 2024 – May 2024

*Advisor: Prof. Varun Chandrasekaran*

- Addressed vulnerabilities in MPC frameworks (e.g., Cerebro) regarding data poisoning attacks.
- Proposed solutions including Auditor role, Normalizing Flows for anomaly detection, and SISA training.
- Demonstrated that Normalizing Flows could successfully distinguish poisoned datasets.

**Comprehensive Survey on Secure Machine Learning** Jan. 2024 – May 2024

*Advisor: Prof. David Heath*

- Reviewed key contributions leveraging MPC for privacy-preserving ML tasks.
- Explored applications of SecureML in gaming environments.
- arXiv: [2505.15124](https://arxiv.org/abs/2505.15124).

## REWARDS

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- **Gold Reviewer**, the 43rd International Conference on Machine Learning (ICML 2026) May. 2026
- **Student Leadership Award**, Zhejiang University May. 2019

## ACADEMIC SERVICES

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- Reviewer, the Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS 2025).
- Reviewer, the 64th Annual Meeting of the Association for Computational Linguistics (ACL 2026).
- Reviewer, the 43rd International Conference on Machine Learning (ICML 2026).
- Reviewer, the 32nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2026).
- Reviewer, Fortieth Annual Conference on Neural Information Processing Systems (NeurIPS 2026).

## TEACHING

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**University of Illinois Urbana-Champaign**

- **Math 241: Calculus III**, Prof. Thomas Honold Fall 2022  
Role: Teaching Assistant
- **Math 285: Differential Equations**, Prof. Thomas Honold Spring 2023  
Role: Teaching Assistant