

# Wenxin Ding

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## RESEARCH INTEREST

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My research interest lies in machine learning security and privacy. Specifically, I focus on bridging the gap between theoretical understanding and empirical practice. Recently, I have been working on problems regarding vulnerabilities of diffusion models.

## EDUCATION

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### University of Chicago

Ph.D. in Computer Science

Advisors: Prof. Heather (Haitao) Zheng and Prof. Ben Y. Zhao

Chicago, IL

Sep 2021 – June 2026

### Carnegie Mellon University

M.S. in Computer Science – Research Thesis

Advisors: Prof. Nihar Shah and Prof. Weina Wang

Pittsburgh, PA

Aug 2021

B.S. in Computer Science and B.S. in Mathematical Sciences

Minor in Computational Finance

May 2020

## PUBLICATIONS

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### Conference

- **Wenxin Ding**, Cathy Li, Shawn Shan, Ben Y. Zhao, Haitao Zheng. “Understanding Implosion in Text-to-Image Generative Models.” *2024 ACM SIGSAC Conference on Computer and Communications Security (CCS)*.
- Shawn Shan, **Wenxin Ding**, Josephine Passananti, Haitao Zheng, Ben Y. Zhao. “PromptSpecific Poisoning Attacks on Text-to-Image Generative Models.” *2024 IEEE Symposium on Security and Privacy (SP)*.
- **Wenxin Ding**, Arjun Nitin Bhagoji, Ben Y. Zhao, and Haitao Zheng. “Towards Scalable and Robust Model Versioning.” *2<sup>nd</sup> IEEE Conference on Secure and Trustworthy Machine Learning (SaTML)*.
- Sihui Dai\*, **Wenxin Ding**\*, Arjun Nitin Bhagoji, Daniel Cullina, Ben Y. Zhao, Haitao Zheng, and Prateek Mittal. “Characterizing the Optimal 0-1 Loss for Multi-class Classification with a Test-time Attacker.” *2023 Advances in Neural Information Processing Systems (NeurIPS)*.  
*Spotlight*
- Shawn Shan, **Wenxin Ding**, Emily Wenger, Haitao Zheng, and Ben Y. Zhao. “Post-breach recovery: Protection against white-box adversarial examples for leaked DNN models.” *2022 ACM SIGSAC Conference on Computer and Communications Security (CCS)*.

- **Wenxin Ding**, Gautam Kamath, Weina Wang, and Nihar B. Shah. “Calibration with privacy in peer review.” *2022 IEEE International Symposium on Information Theory (ISIT)*.

## Workshop

- **Wenxin Ding**, Nihar B. Shah, and Weina Wang. “On the privacy-utility tradeoff in peer-review data analysis.” *2021 AAAI Privacy-Preserving Artificial Intelligence (PPAI) workshop*. **Spotlight**

## TEACHING EXPERIENCE

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### Teaching Assistant

#### University of Chicago

- CMSC 25800 Adversarial Machine Learning
- CMSC 25300/35300 Mathematical Foundations of Machine Learning

#### Carnegie Mellon University

- 15110 Principles of Computing (Head Teaching Assistant)
- 15213 Introduction to Computer Systems
- 15440 Distributed Systems

### Mentor

Strong Women Strong Girls, Pittsburgh, PA

## SERVICE

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### Program Committee

- 2025 ACM Conference on Computer and Communications Security (CCS)
- 2025 IEEE Conference on Secure and Trustworthy Machine Learning (SaTML)
- 2024 ACM Workshop on Artificial Intelligence and Security (AISec)

Reviewer: 2024, 2025 The Conference on Uncertainty in Artificial Intelligence (UAI)

Volunteer: 2022 ACM Conference on Computer and Communications Security (CCS)

## AWARDS

- 2024 University of Chicago UU Fellowship
- 2021 University of Chicago Eckhardt Scholar
- 2020 Carnegie Mellon University Senior Leadership Recognition
- 2019 Mark Stehlik SCS Alumni Undergraduate Impact Scholarship
- 2017 William Lowell Putnam Mathematical Competition (Rank: 255 / 4638) 2