

# Wenxin Ding

Email: [wenxind@uchicago.edu](mailto:wenxind@uchicago.edu)

Tel: (412)-961-2629

Website: [wenxind.github.io](http://wenxind.github.io)

## 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**, Chicago, IL

Sep 2021 – June 2026

Ph.D. in Computer Science

Advisors: Prof. Heather Zheng and Prof. Ben Zhao

**Carnegie Mellon University**, Pittsburgh, PA

M.S. in Computer Science – Research Thesis

May 2021

Advisors: Prof. Nihar Shah and Prof. Weina Wang

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

May 2020

## PUBLICATION & PREPRINT

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### Conference

- **Ding, Wenxin**, 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* (2024).
- Dai, Sihui\*, **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." *Advances in Neural Information Processing Systems* (2023). *Spotlight*
- Shan, Shawn, **Wenxin Ding**, Emily Wenger, Haitao Zheng, and Ben Y. Zhao. “Post-breach recovery: Protection against white-box adversarial examples for leaked DNN models.” In *Proceedings of the 2022 ACM SIGSAC Conference on Computer and Communications Security*, pp. 2611-2625. 2022.
- **Ding, Wenxin**, Gautam Kamath, Weina Wang, and Nihar B. Shah. "Calibration with privacy in peer review." In *2022 IEEE International Symposium on Information Theory (ISIT)*, pp. 1635-1640. IEEE, 2022.

### Workshop and Preprint

- Shan, Shawn, **Wenxin Ding**, Josephine Passananti, Haitao Zheng, Ben Y. Zhao. "Prompt-Specific Poisoning Attacks on Text-to-Image Generative Models." *arXiv preprint arXiv:2310.13828* (2023).

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

## **TEACHING EXPERIENCE**

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### **Teaching Assistant**

#### **University of Chicago**

- 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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- **Volunteer**  
The ACM Conference on Computer and Communications Security (CCS), Los Angeles, USA (Nov 7—11, 2022)

## **AWARDS**

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- 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)