

MENG CHEN

✉ meng.chen@zju.edu.cn

College of Computer Science and Technology, Zhejiang University

EDUCATION BACKGROUND

Zhejiang University

Ph.D. in Cyber Science and Technology, advised by [Dr. Li Lu](#)

Hangzhou, China
Sep. 2021 – Jun. 2026 (expected)

Zhejiang University

B.E. in Software Engineering, GPA: 3.89/4 (Top 5%)

Hangzhou, China
Sep. 2017 – Jun. 2021

RESEARCH INTEREST

My research interests lie in AI security with a specific focus on adversarial examples and backdoor learning, especially their practical threats to intelligent audio systems. By “debugging” deep learning, i.e., investigating failures in learning-based systems, my research seeks to help build more trustworthy AI systems in security-critical tasks.

RESEARCH EXPERIENCE

Research Assistant

Advised by [Dr. Li Lu](#).

Nov. 2020 – Present
MUSLab, Zhejiang University

- Mainly worked on speech signal processing and adversarial example attacks against voiceprint recognition.
- Finished my undergraduate thesis entitled “Impersonation Attack on Voiceprint Authentication Systems Based on Adversarial Examples”, which was awarded the *Outstanding Bachelor Dissertation Award*.

PUBLICATIONS

- [1] **Meng Chen**, Xiangyu Xu, Li Lu*, Zhongjie Ba, Feng Lin, Kui Ren. “Devil in the Room: Triggering Audio Backdoors in the Physical World”, in *Proceedings of the 33rd USENIX Security Symposium (USENIX Security’24)*, pp.1-18, Philadelphia, PA, USA, 2024. (Artifacts in preparation) [\[PDF\]](#) [\[Demo\]](#)
- [2] **Meng Chen**, Li Lu*, Jiadi Yu, Zhongjie Ba, Feng Lin, Kui Ren. “AdvReverb: Rethinking the Stealthiness of Audio Adversarial Examples to Human Perception”, *IEEE Transactions on Information Forensics and Security (IEEE TIFS)*, vol.19, pp.1948-1962, 2024. [\[PDF\]](#) [\[Demo\]](#) [\[Code\]](#)
- [3] **Meng Chen**, Li Lu*, Junhao Wang, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, Feng Lin, Kui Ren. “Voice-Cloak: Adversarial Example Enabled Voice De-Identification with Balanced Privacy and Utility”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (ACM IMWUT)*, vol.7, no.2, pp.48:1-48:21, 2023. [\[PDF\]](#) [\[Demo\]](#) [\[Blog\]](#)
- [4] **Meng Chen**, Li Lu*, Jiadi Yu, Yingying Chen, Zhongjie Ba, Feng Lin, Kui Ren. “A Non-intrusive and Adaptive Speaker De-Identification Scheme Using Adversarial Examples”, in *Proceedings of the 28th ACM Annual International Conference On Mobile Computing And Networking (ACM MobiCom’22)*, pp.853-855, Sydney, NSW, Australia, 2022. (🏆 **Best Poster Runner-up Award**) [\[PDF\]](#)
- [5] **Meng Chen**, Li Lu*, Zhongjie Ba, Kui Ren. “PhoneyTalker: An Out-of-the-Box Toolkit for Adversarial Example Attack on Speaker Recognition”, in *Proceedings of the 41st IEEE International Conference on Computer Communications (IEEE INFOCOM’22)*, pp.1419-1428, London, United Kingdom, 2022. [\[PDF\]](#)
- [6] Lei Wang, **Meng Chen**, Li Lu*, Zhongjie Ba, Feng Lin, Kui Ren. “VoiceListener: A Training-free and Universal Eavesdropping Attack on Built-in Speakers of Mobile Devices”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (ACM IMWUT)*, vol.7, no.1, pp.32:1-32:22, 2023. [\[PDF\]](#) [\[Code\]](#)
- [7] Qianniu Chen, **Meng Chen**, Li Lu*, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, Feng Lin, Kui Ren. “Push the Limit of Adversarial Example Attack on Speaker Recognition in Physical Domain”, in *Proceedings of the 20th ACM Conference on Embedded Networked Sensor Systems (ACM SenSys’22)*, pp.710-724, Boston, MA, USA, 2022. [\[PDF\]](#)

PROFESSIONAL SERVICES

Journal Reviewer: IEEE Transactions on Network Science and Engineering (TNSE)

HONORS & AWARDS

Longhu Scholarship , Zhejiang University	2023
Best Poster Runner-up Award , ACM MobiCom	2022
Student Conference Grant , IEEE INFOCOM	2022
Suzhou Yucai Scholarship , Zhejiang University	2022
Outstanding Bachelor Dissertation Award , Zhejiang University	2021
Outstanding Graduate , Zhejiang University	2021
First-class Scholarship , Top 3%, Zhejiang University	2020
Provincial Government Scholarship , Top 3%, Zhejiang Province	2019