

HAICHUAN ZHANG

🏠 Homepage 📧 LeopoldZhang1610 📩 hc.zhang@utah.edu

EDUCATION

School of Computing, University of Utah	Aug 2026 - Present
PhD Student in Computer Science	UT, United States
◦ Advisor: Prof. Guanhong Tao	
School of Artificial Intelligence, Anhui University	Sep 2022 - Jun 2025
Master in Computer Science and Technology	Anhui, China
◦ GPA: 3.88/4 , Average Score: 91.05/100	
School of Computer Science and Technology, Anhui University	Sep 2017 - Jun 2021
Bachelor in Computer Science and Technology	Anhui, China
◦ GPA: 3.32/4 , Average Score: 84.62/100	
◦ I am Haichuan Zhang, a Ph.D. student in the School of Computing at the University of Utah. I possess a keen interest in Trustworthy Machine Learning . Specifically, I focus on exploring security and privacy issues in AI-driven systems such as diffusion models , large language models , and software engineering (AI4SE) , etc. My ultimate goal is to drive meaningful advancements in research that have a tangible impact on real-world applications.	

PUBLICATIONS

- **Haichuan Zhang**, Meiyu Lin, Zhaoyi Liu, Renyuan Li, Zhiyuan Cheng, Carl Yang and Mingjie Tang. "Attack as Defense: Run-time Backdoor Implantation for Image Content Protection." International Conference on Learning Representations ([arxiv preprint](#)).
- **Haichuan Zhang**, Renyuan Li, Jia Shi, Zhibo Liang, Zhiyuan Cheng, Carl Yang and Mingjie Tang. "SneakyVoice: Against Malicious Voice Replication via Adversarial Attack." The IEEE / CVF Computer Vision and Pattern Recognition ([arxiv preprint](#)).
- Meiyu Lin, **Haichuan Zhang**, Jiale Lao, Carl Yang, Yang Cao and Mingjie Tang. "Are Your LLM-based Text-to-SQL Models Secure? Exploring SQL Injection via Backdoor Attacks" The Association for Computing Machinery's Special Interest Group on Management of Data ([SIGMOD 2025](#)).

RESEARCH EXPERIENCE

Run-time Backdoor Implantation for Image Content Protection	March 2024 - May 2025
Advisors: Prof. Mingjie Tang (SCU); Dr. Zhiyuan Cheng (Purdue)	Research Assistant
◦ Designed and implemented Attack-as-Defense, an innovative method for resisting malicious image edits through backdoor attack.	
◦ Implemented run-time backdoor implantation, which is both time- and resource-efficient comparing to traditional backdoor methods.	
◦ Defined the sensitive area in image as trigger, enhancing the stability of backdoor activation and minimizing the negative impact on legitimate modifications.	
Leverage Adversarial Attack Against Voice Cloning	Sep 2024 - May 2025
Advisors: Prof. Mingjie Tang (SCU); Prof. Carl Yang (Emory)	Research Assistant
◦ Designed and implemented SNEAKYVOICE, an novel voice privay protect paradigm against voice cloning via adversarial attack.	
◦ Designed adaptive target generation, which is universal to speakers with different voice styles. Implemented relative amplitude perturbations to make phoneme difference more inaudible.	
◦ Extended SneakyVoice attack to further TTS-driven voice replication paradigm like voice conversion.	

Text-to-SQL Jailbreak via Backdoor Training

July 2024 - July 2025

Advisors: Prof. Mingjie Tang (SCU); Prof. Yang Cao (Tokyo Tech)

Research Assistant

- Designed ToxicSQL, an data-poisoning training framework for Text-to-SQL models.
- Proposed SQL injection as Jailbreak target and designed semantically valid triggers to make the backdoor difficult to detect.
- Analyzed detection and defense strategies of potential poisonous Text-to-SQL models.

INTERNSHIP

IDsLab, Sichuan University (SCU)

Mar 2024 - Present

Mentor: Prof. Mingjie Tang (*obtained Ph.D. degree at Purdue*)

Research Assistant

- Explored security and AI ethics in generative models and AI4SE systems.
- Internship outcome: Two first-author papers submitted to ICLR 2026, CVPR 2025. One second-author paper submitted to VLDB 2025. A project invested by China Mobile (Chengdu).

iFlytek Research

Sep 2023 - Feb 2024

Mentor: Hu Cheng

Research Intern

- Construct datasets for LLMs training. Deploy and optimize vision-language models.
- Internship outcome: A Chinese patent.

TEACHING EXPERIENCE

◦ Practical Machine Learning

Spring 2026

Teaching Assistant

◦ Database System Experimental Course

Spring 2023

Teaching Assistant

SERVICES

Subreviewer of VLDB 2024, TIFS 2025, NeurIPS 2025, ICLR 2026.

SKILLS

Programming Languages: Python, C++, Matlab, C

Tools and Frameworks: PyTorch, TensorFlow, Docker

SELECTED AWARDS

Outstanding Model Graduate Student (top 5%)

@Anhui University

Outstanding Graduate Student of 2025 (top 15%)

@Anhui University

First Class Scholarship

@Anhui University

Academic Scholarship

@Anhui University