

Chenyu Zhou

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EDUCATION

University of Southern California Ph.D. in Computer Science	Los Angeles, US 2023.8–NOW
Huazhong University of Science and Technology Beng. in Computer Science and Technology	Wuhan, China 2019.9–2023.6

EXPERIENCE

Hong Kong Baptist University Trustworthy Machine Learning and Reasoning Group, research intern	Hong Kong SAR Summer 2022
<ul style="list-style-type: none">– Focused on model inversion attack method on graph data.– Built the first whole model inversion systems on graph, including 4 situations.– Published at ICML 2023.– directed by prof. Bo Han.	
Tsinghua University Network and Information Security Lab, research intern	Beijing, China Spring 2022
<ul style="list-style-type: none">– Focused on the explanation and analysis for current binary function similarity detection tools.– Used LLVM-IR generating CFG to detect the similarity between functions.– Used graph-based ML methods to explain the result and design new detectors.– Submitted to IEEE S&P 2023.– directed by prof. Chao Zhang.	

PUBLICATIONS

1. Z. Zhou, C. Zhou, X. Li, J. Yao, Q. Yao and B. Han, “On Strengthening and Defending Graph Reconstruction Attack with Markov Chain Approximation”, *Fortieth International Conference on Machine Learning(ICML)*, July 2023

TEACHING

- **Head Teaching Assistant** at Huazhong University of Science and Technology
CST2261:Algorithm Design and Analysis. Autumn 2021
- **Teaching Assistant** at Huazhong University of Science and Technology
CST2141:Computer Organization. Spring 2022

PROJECTS

- Academic Cooperation Network Detection(Community Detection, 2021)
 - Use fluid and other CD algorithms to detect connections in an academic network, presented with frontend and backend. Getting data from Google Scholar
- Proxy Kernel Experiment development(Operation System, 2022)
 - Use proxy kernel technology on xv6 to build a small but enough operation system experiments for HUST. Developed file system for proxy kernel, and finishing instruction docs.
- Simple C Interpreter(Complication Technology, 2019)
 - Supports most of C99 features. Generating Abstract Syntax Tree and executing by traversing.
- Fake News Separation(Machine Learning, NLP, 2021)
 - Using machine learning methods(like XGBoost, SVM) and deep learning method(Bert, attention), ML Course Project.

SCHOLARSHIPS AND AWARDS

- 2022 CCF Outstanding College Student(top 100 in China) 2022
- The 2021 ACM-ICPC Asia Macau Regional Contest, Silver 2021
- Digital China Innovation Competition Cyber Security Track(CTF), 4th Place 2021
- 2022 ASC Asia Supercomputer Contest, Second Class Prize 2022
- DEFCON AutoDrive CTF, 3rd Place 2022
- National College Students Operating System Design Competition, Finalist. 2022
- Xiangyun Cup Cybersecurity Competition, Honorable Mention 2021
- Tencent Scholarship (top 1%) 2021
- HUST CTF Competition, 2nd Place 2020
- Science and Technology Innovation Scholarship of HUST 2020
- “SeedCup” Innovative Software Competence Competition, 8th Place 2020
- Collegiate Computer Systems & Programming Contest(CCSP),Bronze Prize 2020
- 30th Certification for Software Professionals, top 3.53% 2020
- National Olympiad in Informatics(Jiangsu Province),First Prize 2018

EXTRACURRICULAR ACTIVITIES

- HUST Bingyan Studio 2019–2020
Backend Group, hosted 2020 Bingyan Summer Camp.
- HUST L3H_Sec CTF Team 2020–Current
Core Group, major in Web, Misc and Crypto.
- HUST Dian Group 2020 –2021
Huawei Group, design technology solutions for network detection problems.
- HUST Heptagon Super-Computer Team Winter 2022
Work mainly on Machine Learning System optimization.
- Jiangsu Olympiad in Informatics Summer Camp Summer 2019
Worked as lecturer and gave lectures about dynamic programming.