

TAO CHEN

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210 S. Bouquet Street, Pittsburgh, PA 15260

RESEARCH INTEREST

Mobile and Wearable Computing; Acoustic Signal Processing; Embedded System Design

EDUCATION

City University of Hong Kong, Hong Kong *September, 2017 - October, 2021*
Doctor of Philosophy (Advisor: Prof. Zhenjiang Li)
Department of Computer Science

Northwestern Polytechnical University, Xi'an, China *September, 2013 - July, 2017*
Bachelor of Engineering
Department of Acoustic and Information Engineering

EXPERIENCE

University of Pittsburgh, Pittsburgh, USA *September, 2022 - Present*
Postdoc (Advisor: Prof. Longfei Shangguan)
Department of Computer Science

City University of Hong Kong
Dongguan Research Institute, Dongguan, China *October, 2021 - August, 2022*
Assistant Researcher
Center for Computer Science and Information Technology

PUBLICATION

Tao Chen, Longfei Shangguan, Zhenjiang Li and Kyle Jamieson. "SoundSticker: In-band Acoustic Channels to Enhance the Room-Area Network Connectivity." *In Submission*, 2022.

Tao Chen, Longfei Shangguan, Zhenjiang Li and Kyle Jamieson. "Metamorph: Injecting Inaudible Commands into Over-the-air Voice Controlled Systems." *In Proceedings of the Network and Distributed System Security Symposium (NDSS)*, 2020.

Zhen Xiao, **Tao Chen**, Yang Liu, Zhenjiang Li. "Mobile Phones Know Your Keystrokes through the Sounds from Finger's Tapping on the Screen." *In Proceedings of IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2020.

Zhen Xiao, **Tao Chen**, Yang Liu, Jiao Li, Zhenjiang Li. "Keystroke Recognition With the Tapping Sound Recorded by Mobile Phone Microphones." *IEEE Transactions on Mobile Computing*, 2021.

Jiao Li, Yang Liu, **Tao Chen**, Zhen Xiao, Zhenjiang Li, Jianping Wang. "Adversarial Attacks and Defenses on Cyber-Physical Systems: A Survey." *IEEE Internet of Things Journal*, 2020.

POSTERS & DEMOS

Tao Chen, Longfei Shangguan, Zhenjiang Li, Kyle Jamieson. "Poster: Room-Scale Over-the-Air Audio Adversarial Examples." *NDSS symposium Poster*, 2020

AWARDS AND HONORS

Research Tuition Scholarship , CityU	2020
UGC PhD Scholarship , CityU	2017-2021
Best New Team , RoboSub (sponsored by AUVSI and ONR), San Diego, CA, USA	2016
First Prize , Singapore AUV Challenge, Singapore	2016

Second Prize , National Undergraduate Electronic Design Contest	2015
National Endeavor Scholarship , China	2015-2016
CATIC Special Scholarship (only 10 students selected), NWPU	2017
Wu Yajun Special Scholarship , NWPU	2016
FAST AUTO DRIVE Special Scholarship , NWPU	2015
First Class Scholarship , NWPU	2015-2017
Excellent Student Awards , NWPU	2014-2017

TEACHING

CS2313 Computer Programming , CityU	<i>Sem B, 2020-2021</i>
CS2313 Computer Programming , CityU	<i>Sem A, 2020-2021</i>
CS2313 Computer Programming , CityU	<i>Sem B, 2019-2020</i>
CS2313 Computer Programming , CityU	<i>Sem A, 2019-2020</i>
CS2310 Computer Programming , CityU	<i>Sem B, 2018-2019</i>
CS5487 Machine Learning , CityU	<i>Sem A, 2018-2019</i>
CS4280 Advanced Internet Applications Development , CityU	<i>Sem B, 2017-2018</i>
CS2115 Computer Organization , CityU	<i>Sem A, 2017-2018</i>

PROFESSIONAL SERVICES

TPC: IEEE ICPADS 2022; EAI MobiQuitous 2022; ACM SenSys 2022 (shadow PC)

Reviewer: ACM IMWUT 2021; Frontiers Artificial Intelligence of Things