

# TAO CHEN

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210 S. Bouquet Street, Pittsburgh, PA 15260

## RESEARCH INTEREST

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

## EDUCATION

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**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

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**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

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**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

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

## AWARDS AND HONORS

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<b>Research Tuition Scholarship, CityU</b>	<i>2020</i>
<b>UGC PhD Scholarship, CityU</b>	<i>2017-2021</i>
<b>Best New Team, RoboSub</b> (sponsored by AUVSI and ONR), San Diego, CA, USA	<i>2016</i>
<b>First Prize</b> , Singapore AUV Challenge, Singapore	<i>2016</i>
<b>Second Prize</b> , National Undergraduate Electronic Design Contest	<i>2015</i>
<b>National Endeavor Scholarship, China</b>	<i>2015-2016</i>
<b>CATIC Special Scholarship</b> (only 10 students selected), NWPU	<i>2017</i>
<b>Wu Yajun Special Scholarship, NWPU</b>	<i>2016</i>
<b>FAST AUTO DRIVE Special Scholarship, NWPU</b>	<i>2015</i>
<b>First Class Scholarship, NWPU</b>	<i>2015-2017</i>
<b>Excellent Student Awards, NWPU</b>	<i>2014-2017</i>

## TEACHING

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

## PROFESSIONAL SERVICES

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

**Reviewer:** ACM IMWUT 2021; Frontiers Artificial Intelligence of Things