

WEIGAO SU

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EDUCATION

Hunan University
B.Eng in Computer Science

September 2018 - Present
GPA: 3.71/4, Top 4%

PUBLICATION

“Towards Device Independent Eavesdropping on Telephone Conversations with Built-in Accelerometer”

Weigao Su*, Daibo Liu, Taiyuan Zhang, Hongbo Jiang.

ACM Ubicomp / IMWUT 2022.

RESEARCH EXPERIENCE

Optimizing Video Streaming for High-speed Rails

Supervised by Prof. Daibo Liu (HNU), Jie Xiong (UMass).

July 2021 – Present
Research Assistant

- Modeled TCP measurements in high speed rails to disclose the root cause of network degradation.
- Researched LTE behavior with worsened channel quality.
- Revisited current ABR strategies to show the underlying deficiency.
- Designed a crowdsourcing-based video delivery framework to ensure QoE for passengers on HSR.

Scalable Smartphone Eavesdropping over Accelerometer

Supervised by Prof. Daibo Liu (HNU), Hongbo Jiang(HNU).

June 2020 – May 2021
Research Assistant

- Investigated potential gains/threats of motion sensors.
- Employed signal processing and feature engineering to locate underlying features of speech-induced vibration.
- Constructed an adversarial neural network assisted by features to achieve device independent recognition.
- Proposed a way of defense without alteration on hardware.

HONORS AND AWARDS

Second Prize in National College Student Information Security Contest
College Scholarship (31 out of 620)

2021

National First Prize in RoboMaster University Series- *Technical Challenge*
National Second Prize in RoboMaster University Series- *University Championship*
College Scholarship (31 out of 620)

2020

National Second Prize in FILTRP English Public Speaking Contest
College Scholarship (29 out of 577)

2019

SKILLS

Languages: C/C++, JAVA, JavaScript, Matlab, Python.

Tools: Docker, Git, Heroku, MySQL, NS3.

English Proficiency: TOEFL 107 with R28, L29, S25, W25.