

WEIGAO SU

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EDUCATION

Purdue University

Ph.D. Student in Computer Science

August 2022 - Present

GPA: 3.8/4

Hunan University

B.Eng in Computer Science

September 2018 - June 2022

GPA: 3.7/4, Top 3%

PUBLICATION

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

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

Proceedings of the ACM on IMWUT 5.4, 2021.

RESEARCH EXPERIENCE

Facilitating memory disaggregation via PHY

Supervised by Prof. Vishal Shrivastav (Purdue).

February 2023 – Present

- Explored the use of IPG to carry cache management message.
- Integrated cache coherence and congestion control protocol into PHY layer.

OTFS-based broadband communication

Supervised by Prof. Chunyi Peng (Purdue).

September 2022 – January 2023

- Investigated the performance of TF domain channel estimation in high frequency band.
- Explored the feasibility of embedding OTFS pilots in current OFDM grid.

Optimizing Video Streaming for High-speed Rails

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

July 2021 – May 2022

- Modeled TCP measurements in high speed rails.
- Studied LTE behavior and current ABR algorithms with worsened channel quality.

Scalable Smartphone Eavesdropping over Accelerometer

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

June 2020 – May 2021

- Investigated potential gains/threats of motion sensors.
- Employed signal processing and feature engineering to achieve eavesdropping via accelerometer.

TEACHING

TA for CS240: C Programming

Fall22

HONORS AND AWARDS

First Prize in National College Student Information Security Contest

2021

National First Prize in RoboMaster University Series- *University Championship*

2020

National Second Prize in FILTRP English Public Speaking Contest

2019

SKILLS

Languages: Verilog, Python, P4, C/C++, JAVA, JavaScript.

Tools: Matlab, Docker, Git, SQL, Mininet, WireShark.