

# WEIGAO SU

su312@purdue.edu • Homepage

## EDUCATION

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### Purdue University

Ph.D. Student in Computer Science

*August 2022 - Present*

### Hunan University

B.Eng in Computer Science

*September 2018 - June 2022*

*GPA: 3.7/4, Top 3%*

## PUBLICATION

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### “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

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### OTFS-based broadband communication

*Supervised by Prof. Chunyi Peng (Purdue).*

September 2022 – Present

- Proved the disadvantages of TF domain channel estimation in high frequency band.
- Investigated 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.
- Researched 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

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Teaching Assistant for

- CS536: Data Communication and Computer Networks

*2023SP*

- CS240: C Programming

*2022FA*

## HONORS AND AWARDS

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First Prize in National College Student Information Security Contest

*2021*

National First Prize in RoboMaster University Series- *Technical Challenge*

*2020*

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

National Second Prize in FILTRP English Public Speaking Contest

*2019*

## SKILLS

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**Languages:** C/C++, JAVA, JavaScript, Matlab, Python, P4.

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