

## Luca Jiangtao Yu

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### CONTACT INFORMATION

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### EDUCATION

***Ph.D. in Computer Science*** Sept '23 - Present  
Dept. of Computer Science  
The University of Hong Kong (HKU), Hong Kong  
Advisor: Prof. Chenshu Wu at AIoT Lab, Systems & Networking Group

***B.Eng. in Information Engineering*** Sept '19 - Jul '23  
School of Info. & Comm. Engineering  
Beijing University of Posts and Telecommunications (BUPT), China  
GPA: **3.88/4, 1.5%**

### RESEARCH INTERESTS

- Signal Processing, Deep Learning Application, and Wireless AI Perception.
- Multi-modality/sensor Machine Learning and Internet of Things.

### EXPERIENCE

*Research Assistant* Nov '21 - Sept '23  
**MARS Lab**, Advisor: Prof. Hang Zhao  
IIIS, Tsinghua University (Beijing) & Shanghai Qi Zhi Institute (Shanghai)

- Research on wireless perception, multi-modality/sensor machine learning.
- Developed an acoustic sensing system via mmWave radar to eavesdrop.

*Research Intern* Jun '20 - Sept '21  
**Intelligent Comm. Software & Multimedia Key Lab**, Advisor: Prof. Anfu Zhou  
School of Computer Science, BUPT (Beijing)

- Research on mmWave radar tracking & sensing.
- Developed a plan of double-hand tracking clustering via mmWave radar.

### PUBLICATIONS

- Running Zhao, **Jiangtao Yu**, Tingle Li, Edith C.H. Ngai<sup>†</sup>, Hang Zhao<sup>†</sup>. "Radio2Speech: High Quality Speech Recovery from Radio Frequency Signals". **Accepted** by *Interspeech 2022*. [project] [paper]
- Running Zhao\*, **Jiangtao Yu\***, Hang Zhao<sup>†</sup>, Edith C.H. Ngai<sup>†</sup>. "Radio2Text: Streaming Speech Recognition using mmWave Radio Signals". **Accepted** by *UbiComp/ISWC 2023*. [paper]

### HONORS & SCHOLARSHIP

- HKU Student Postgraduate Scholarship
- National Scholarship (Rank: 7/902, 0.7%)
- China Mobile Outstanding Student Scholarship (Rank: 2/192, 1%)
- 1<sup>st</sup> prize in National Math. Competition for College Students (Eng)

### SKILLS

Library: C/C++, Python, Website, MATLAB, Pytorch, DSP  
English: IELTS 6.5

### ACADEMIC SERVICE

Reviewer: MobiSys '23, ATC '23, OSDI '23; TA: COMP1117