HONGYAO LIU

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EDUCATION

City University of Hong Kong   **Aug. 2023 – Dec.2027 (Expected)**
Ph.D. of Science in Computer Science   **Hong Kong, SAR**
Supervisor: Prof. Jun Huang

Beijing University of Posts and Telecommunications   **Sep. 2018 – Jun. 2022**
Bachelor of communication engineering   **Beijing, China**

SELECTED PUBLICATIONS

[MobiCom 2024]   **Neuralite: Enabling Wireless High-Resolution Brain-Computer Interfaces**
Full Paper, CCF-A   **Hongyao Liu**, Junyi Wang, Liuqun Zhai, Yuguang Fang, Jun Huang.

[HotMobile]   **Neuron-Aware Brain-to-Computer Communication for Wireless Intracortical BCI**
Full Paper   **Hongyao Liu**, Junyi Wang, Xi Chen, Jun Huang.

[Micromachine]   **Switchable and Dual-Tunable Multilayered Terahertz Absorber Based on Patterned Graphene and Vanadium Dioxide**
Full Paper   **Hongyao Liu,** Panpan Wang, Jiali Wu, Xin Yan, Xueguang Yuan, Yangan Zhang, Xia Zhang.

[Electronics]   **Analysis of terahertz wave on increasing radar cross section of 3D conductive model**
Full Paper   **Hongyao Liu**, Panpan Wang, Jiali Wu, Xin Yan, Yangan Zhang, Xia Zhang.

RESEARCH INTERESTS

My research focuses on
- (1) AIoT: Designing efficient network streaming algorithms for on-device AI and multimodal sensing applications;
- (2) BCI: Architecting wireless streaming frameworks for high-fidelity brain-computer interfaces;
- (3) On-device LLM: Accelerating edge LLM inference via collaborative wireless streaming and efficient computing.

RESEARCH Project

- 32-Channel wireless iBCI/ECoG headstage with adaptive ADC sample rate

SELECTED AWARDS

Research Tuition Scholarship, City University of Hong Kong (CityUHK)	2024-2025
Second-Class Scholarship, Beijing University of Posts and Telecommunications	2021