

# Xuefu Dong

Meguro, Tokyo • [dongxuefu@mcl.iis.u-tokyo.ac.jp](mailto:dongxuefu@mcl.iis.u-tokyo.ac.jp) • (+81)080-8127-5378 • [xjh9981.github.io](https://github.com/xjh9981)

## Education

### The University of Tokyo

Ph.D. in Information Science and Technology, GPA: 4.0/4.0

Tokyo, Japan  
10/2022-9/2025 (Expected)

- Advisor: Prof. [Kaoru Sezaki](#)

### The University of Tokyo

Master of Environmental Studies in Socio-Cultural Env. Studies, GPA: 3.73/4.0

Tokyo, Japan  
09/2020-9/2022

- Program of Spatial Information Science
- Thesis title: “Detecting Dangerous Cycling Behaviors with Inertial Measurement Unit”
- Advisor: Prof. Kaoru Sezaki

### Xi'an Jiaotong University

Bachelor of Engineering in Information Engineering, GPA: 87.01/100

Xi'an, China  
8/2016-6/2020

- Thesis title: “Broadband Impedance Matching Network Design”
- Advisor: Prof. [Chunming Tian](#)

## Publication (Paper of first/co-first author in blue)

### Conference Paper

- [ICDCS'24] Zengyi, H., **Xuefu, D.**, Liqiang, X., Zhen, Z., Yuuki, N., & Kaoru, S. (2024, June) RideGuard: Micro-Mobility Steering Maneuver Prediction with Smartphones. In *2024 IEEE 44rd International Conference on Distributed Computing Systems* (Accepted). (Acceptance Rate: 21.9%)
- [CHI'24] **Xuefu, D.**, Yifei, C., Yuuki, N., Kaoru, S., Yuntao, W., Ken, C., & Alex, M. (2024, May). ReHEarSSE: Recognizing Hidden-in-the-Ear Silently Spelled Expressions. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (Accepted).
- [WoWMoM'23] Zengyi, H., **Xuefu, D.**, Yuuki, N., & Kaoru, S. (2023, June). HeadSense: Visual Search Monitoring and Distracted Behavior Detection for Bicycle Riders. In *2023 IEEE 24th International Symposium on a World of Wireless, Mobile and Multimedia Networks*. DOI: [10.1109/WoWMoM57956.2023.00043](https://doi.org/10.1109/WoWMoM57956.2023.00043)
- [PerCom'23] Zengyi, H., Liqiang, X., **Xuefu, D.**, Yuuki, N., & Kaoru, S. (2023 March). HeadMon: Head Dynamics Enabled Riding Maneuver Prediction. In *2023 IEEE International Conference on Pervasive Computing and Communications*. DOI: [10.1109/PERCOM56429.2023.10099215](https://doi.org/10.1109/PERCOM56429.2023.10099215) (Acceptance Rate: 17%)
- [SMC'22] **Xuefu, D.**, Zengyi, H., Yuuki, N., & Kaoru, S. (2022, October). DoubleCheck: Single-Handed Cycling Detection with a Smartphone. In *2022 IEEE International Conference on Systems, Man, and Cybernetics*. DOI: [10.1109/SMC53654.2022.9945380](https://doi.org/10.1109/SMC53654.2022.9945380)

## Experience

### Microsoft Research Asia, Shanghai

08/2023 – 04/2024

Research Intern, Wireless Communication and Sensing Group

- Mentor: Prof. [Jie Xiong](#) | Group Director: Prof. [Lili Qiu](#) (ACM/IEEE/NAI Fellow)
- Worked on ultra-wideband (UWB) sensing and Lidar sensing on commodity devices, as well as table-borne vibration sensing.

### Access Computing Summer Program, UW, THU

06/2022 – 09/2022

Research Intern

- Mentor: [Ken Christofferson](#), and Prof. [Alex Mariakakis](#)
- Worked on an earbud-based silent speech interface utilizing inaudible acoustic ([CHI'24](#)).

## **Awards**

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### **GSFS Challenge Fund, the University of Tokyo**

06/2024-03/2025

- Grant: 500,000 JPY/Year (<https://gsfs-eso.edu.k.u-tokyo.ac.jp/project/challenge-fund>)

### **Fellowship for Creation of Intelligent World (IIW), the University of Tokyo**

04/2023 – present

- Stipend: 180,000 JPY/Month, Grant: 340,000 JPY/Year (<https://www.iw.i.u-tokyo.ac.jp/en>)

### **The 4<sup>th</sup> Place at MATLAB Programing Contest, MATLAB EXPO 2023 Japan**

05/2023

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05/2022

## **Professional Service**

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**Conference reviewer:** IEEE SMC (2022), Ubicomp Poster (2021)

## **Additional**

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**Technical:** MATLAB, Python, Flutter, VHDL, Photoshop

**Language:** Native Mandarin, Fluent English, and Basic Japanese

**Interests:** Graphic Design, Piano