

# Ziang Wang

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## BIOGRAPHY

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I am Ziang Wang, a research assistant at Digital World with Intelligent Things Lab at The Hong Kong University of Science and Technology (Guangzhou), under the supervision of IEEE Fellow Prof. Yang Yang. Previously, I received my M.E degree from Beijing Institute of Technology and B.E. degree from Beijing Jiaotong University. My primary research interests lie in Generative AI-driven wireless technologies, and intelligent sensing-based HCI applications.

## EDUCATION

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### Beijing Institute of Technology

*M.Eng in Software Engineering*

*Advisor: Asso.Prof. Chunhui Duan*

Beijing, China

Sep. 2022 - Mar. 2025

### Beijing Jiaotong University

*B.Eng in Software Engineering*

*GPA: 3.63/4.00*

Beijing, China

Sep. 2018 - Jun.2022

## PUBLICATIONS

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1. **Ziang Wang**, Chunhui Duan, Jiawei Xue, Fan Li, Qihua Feng, Yinan Zhu, Ziyang Zhou. TagRecon: Fine-Grained 3D Reconstruction of Multiple Tagged Packages via RFID Systems. *ACM Transactions on Sensor Networks (TOSN)*, 2025, 21(2): 24:1–24:25. [First Author, CCF-B Journal]
2. **Ziang Wang**, Chunhui Duan, Ruoxing Wang, and Jiawei Xue. VisionRF: Fusing RFID and Vision for Fine-grained 3D Scene Understanding. *Under review at IEEE Transactions on Mobile Computing (TMC)*. [First Author]
3. Jiawei Xue, Chunhui Duan, Fan Li, Qihua Feng, **Ziang Wang**, Yinan Zhu. Non-Intrusive Item Authentication with High Robustness for RFID-Enabled Logistics. *Accepted in IEEE INFOCOM 2025 – IEEE Conference on Computer Communications*. [CCF-A Conference]

## INTERNSHIPS & EXPERIENCE

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### Research Assistant

*Advisor: Prof. Yang Yang*

DOIT LAB of HKUST(GZ)

Apr. 2025 – present

- Exploring generative AI model-driven techniques for integrated sensing and communication via backscatter.
- Designing personalized education services powered by non-intrusive sensing and contextual understanding.

### Research Intern

*Advisor: Asso.Prof. Chunhui Duan*

BIT

Sep. 2021 – Jun. 2022

- Designed a RF-based point cloud generation method based on distances and antenna positions.
- Proposed a multimodal fusion algorithm based on RF-visual point cloud for localization.
- Implemented all algorithms with commercial RFID and camera devices as the system prototype, achieving 5cm (LOS) and 14cm (NLOS) localization accuracy.

### Competition and Research Intern

*Advisor: Prof. Ruipeng Gao*

BJTU

Jun. 2020 - Jun. 2022

- (Team leader) College Students' Innovative Entrepreneurial Training Plan Program of Beijing Region: Deep Image Restoration Based on Unsupervised Learning.
- (Team leader) Third Prize in the Chinese Collegiate Computing Competition of Beijing Region: Scene Depth Perception and Mapping Based on Deep Learning.
- (Teammate) Second Prize in China International College Students' "Internet+" Innovation and Entrepreneurship Competition of Beijing Region: Novel Sensors for Autonomous Driving and 3D Mapping.

## HONORS AND AWARDS

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- **Special Prize Scholarship** in Beijing Institute of Technology - 2022
- **Outstanding Communist Youth League Member** in Beijing Jiaotong University - 2021
- **Third-Class Scholarship** in Beijing Jiaotong University - 2019