# Shuaifan Xia

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|---|---|
| **Chinese** | Native Speaker |
| **English** | TOEFL 107 |
| **French** | A2 |

## Education

**2024-on**  **Ingénieur in Computer Science**, Télécom Paris, Île-de-France, France.
GPA: 3.93/4.0

**2022-2025**  **M.Eng in Computer Science**, Tongji University, Shanghai, China.
GPA: 4.83/5.0 Ranking: 1/48 *Summa Cum Laude* Research Area: Internet of Things

**2018-2022**  **B.Eng in Information Security**, Hangzhou Dianzi University, Zhejiang, China.
GPA: 4.72/5.0 Ranking: 1/116 *Summa Cum Laude*

## Publication Highlights

**2025**  **Frequency Division Duplexing Resonant Beam Communication**.
<u>S. Xia</u>, Q. Liu, Q. Jiang, W. Fang, M. Liu.    IEEE Transactions on Wireless Communications.
Accepted for publication.

**2025**  **Mobile Self-Protection Resonant Beam SWIPT with Adaptive Phase Control**.
X. Wang, <u>S. Xia</u>, W. Fang, M. Liu, M. Xiong, Q. Liu, Z. Pan.    IEEE Internet of Things Journal.
doi:[10.1109/JIOT.2025.3595641](10.1109/JIOT.2025.3595641)

**2024**  **Millimeter-wave Resonant Beam SWIPT**.
<u>S. Xia</u>, Q. Jiang, W. Fang, Q. Liu, S. Zhou, M. Liu, M. Xiong.    IEEE Internet of Things Journal.
doi:[10.1109/JIOT.2024.3452121](10.1109/JIOT.2024.3452121) Open science: [Collin911/RF-RBSWIPT](Collin911/RF-RBSWIPT)

**2023**  **Auto-Protection for Resonant Beam SWIPT in Portable Applications**.
<u>S. Xia</u>, Q. Liu, M. Liu, W. Fang, M. Xiong, Y. Bai, X. Li.    IEEE Internet of Things Journal.
doi:[10.1109/JIOT.2023.3298521](10.1109/JIOT.2023.3298521) Open science: [Collin911/Resonant-Beam-AutoPro](Collin911/Resonant-Beam-AutoPro)

**2023**  **NLOS Transmission Analysis for Mobile SLIPT Using Resonant Beam**.
M. Liu, <u>S. Xia</u>, M. Xiong, M. Xu, Q. Liu, H. Deng.    IEEE Transactions on Wireless Communications.
doi:[10.1109/TWC.2023.3277593](10.1109/TWC.2023.3277593)

**2022**  **Integrated Communication and Positioning With Resonant Beam**.
M. Liu, <u>S. Xia</u>, M. Xiong, M. Xu, W. Fang, Q. Liu.    IEEE Transactions on Wireless Communications.
doi:[10.1109/TWC.2022.3173929](10.1109/TWC.2022.3173929)

## Work Experience

**2023-2025**  **Research Mentor**, Chase Education Technology Co., Ltd., Hubei, China.
Mentor undergraduate students in conducting research projects related to computer science.

**2019-2022**  **Teaching Assistant**, Hangzhou Dianzi University, China.
*Signals and Systems*, *Information Theory and Coding*, *Steganography and Digital Watermarking*.

**2021-2022**  **President of Student Union**, Hangzhou Dianzi University, China.
Responsible for internal and financial affairs, and the Dept. Cultural & Academic Activities.

## Honors & Awards

**2024**  **France Excellence EIFFEL Scholarship**.    Campus France, France.

**2024**  **National Scholarship for Master Students**.    Ministry of Education, China.

**2023**  **National Scholarship for Master Students**.    Ministry of Education, China.

**2021**  **Zhejiang Provincial Scholarship**.    Department of Education, Zhejiang, China.

**2020**  **National Scholarship for Undergraduate Students**.    Ministry of Education, China.

**2019**  **Zhejiang Provincial Scholarship**.    Department of Education, Zhejiang, China.