Shuaifan Xia

Website: collin911.github.io/homepage	**Chinese** Native Speaker
Email: shuaifan.xia@telecom-paris.fr	**English** TOEFL 107
ORCID: 0000-0002-9769-4373	**French** A2
Google Scholar: Shuaifan Xia	

Education

2024–on	**Ingénieur in Computer Science**, Télécom Paris, Île-de-France, France.	
	GPA: 3.93/4.0	
	Core Courses: Parallel and Distributed Computing, Concurrent Programming	
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, Wireless Communication	
2018–2022	**B.Eng in Information Security**, Hangzhou Dianzi University, Zhejiang, China.	
	GPA: 4.72/5.0 Ranking: 1/116 *Summa Cum Laude*	
	Core Courses: Computer Networks, Principles of Communication, Signals and Systems	

Research Experience

2010–on	**Fatiando a Terra** | www.fatiando.org
	Python tools for geophysical data processing, forward modeling, and inversion
	Role: Project founder, core developer, Steering Council Member
2017–on	**The Generic Mapping Tools (GMT)** | www.generic-mapping-tools.org
	A data processing and mapping toolbox for the Earth, Ocean, and Planetary Science
	Role: Community stewardship advisor, set up the website + forum + GitHub workflow

Publication Highlights

2025	**Integrated Sensing and Communication System Based on Radio Frequency Resonance Beam**.
	Y. Guo, S. Xia, M. Xiong, Q. Liu, S. Zhou, W. Fang, Q. Jiang, G. Yan, J. Mu.
	Under submission to IEEE Transactions on Wireless Communications. arXiv:2501.18878.
2024	**Frequency Division Duplexing Resonant Beam Communication**.
	S. Xia, Q. Liu, Q. Jiang, W. Fang, M. Liu.
	Major revision submitted to IEEE Transactions on Wireless Communications.
2024	**Millimeter-wave Resonant Beam SWIPT**.
	S. Xia, Q. Jiang, W. Fang, Q. Liu, S. Zhou, M. Liu, M. Xiong. IEEE Internet of Things Journal. doi:10.1109/JIOT.2024.3452121 Open science: ⬡ Collin911/RF-RBSWIPT
2023	**Auto-Protection for Resonant Beam SWIPT in Portable Applications**.
	S. Xia, Q. Liu, M. Liu, W. Fang, M. Xiong, Y. Bai, X. Li. IEEE Internet of Things Journal. doi:10.1109/JIOT.2023.3298521 Open science: ⬡ Collin911/Resonant-Beam-AutoPro
2023	**NLOS Transmission Analysis for Mobile SLIPT Using Resonant Beam**.
	M. Liu, S. Xia, M. Xiong, M. Xu, Q. Liu, H. Deng. IEEE Transactions on Wireless Communications. doi:10.1109/TWC.2023.3277593
2022	**Integrated Communication and Positioning With Resonant Beam**.
	M. Liu, S. Xia, M. Xiong, M. Xu, W. Fang, Q. Liu. IEEE Transactions on Wireless Communications. doi:10.1109/TWC.2022.3173929

Work Experience

2023–2024	**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, *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.