

夏帅凡 | Shuaifan Xia

“Collin Xia”



Basic Information

Birthday	Nov. 1999	Nationality	CHINA	E-Mail	collinxia@tongji.edu.cn
Address	Tongji University Jiading Campus, No. 4800 Cao'An Highway, Jiading, Shanghai, China				
Language	Mandarin Chinese (Mother Tongue), English: TOEFL 100, CET-6 613, German (Basic)				

Education

Hangzhou Dianzi University	B.Sc	Zhejiang, China	2018.09~2022.06
Major	Information Security	Rank 1/117	GPA 4.69/5.0
Primary Courses	Discrete Mathematics (95), Java (95), Operating System (92), Computer Network (97), Probability and Statistics (97), Information Theory (96), Network Security (93), Signals and Systems(95)		
Tongji University	M.Sc	Shanghai, China	2022.09~Present
Major	Computer Science	Rank 1/48	GPA 4.83/5.0
Research Interest	Optical Wireless Communication (OWC), Internet of Things (IoT), Simultaneous Wireless Information and Power Transfer(SWIPT)		

Publications

- ✦ S. Xia, Q. Liu, M. Liu, W. Fang, M. Xiong, Y. Bai and X. Li, “Auto-Protection for Resonant Beam SWIPT in Portable Applications,” in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2023.3298521.
- ✦ M. Liu, S. Xia, M. Xiong, M. Xu, W. Fang and Q. Liu, "Integrated Communication and Positioning with Resonant Beam," in *IEEE Transactions on Wireless Communications*, vol. 21, no. 11, pp. 9186-9199, Nov. 2022, doi: 10.1109/TWC.2022.3173929.
- ✦ M. Liu, S. Xia, M. Xiong, M. Xu, Q. Liu and H. Deng, "NLOS Transmission Analysis for Mobile SLIPT Using Resonant Beam," in *IEEE Transactions on Wireless Communications*, doi: 10.1109/TWC.2023.3277593.
- ✦ Q. Chen, T. Wu, Q. Zheng, L. Dong, C. Hu, S. Xia, et al., “Lightweight certificateless industrial Internet of things access control method and system”, China, CN111526130B, Aug. 2020.
- ✦ Z. Mo, S. Xia, S. Shen, S. Du, Q. Liu, “A Cloud-Edge-Terminal Collaborative System for Image-Based Crowd Counting” Accepted for publication in the *2023 IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom)*.
- ✦ X. Li, S. Xia, Q. Liu and Y. Bai, “Long Range Barcode Scan Using Resonant Beam” Accepted for publication in *IEEE 24th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*.

Scholarships

First Class Scholarship for Excellence	Every Semester during Undergraduate
Scholarship for Innovation Practice	2 nd , 3 rd , 6 th Semesters in Undergraduate
Scholarship for Student Affairs	1 st , 4 th Semesters in Undergraduate
Scholarship for Social Activity	5 th Semester in Undergraduate
Zhejiang Provincial Scholarship for Undergraduates	2019 and 2021
China National Scholarship for Undergraduates	2020

Scientific Awards

- ✦ **2019 and 2020 National Innovation Project Grants for College Students** **Accomplished**
Topic: Intrusion Detection System & Security Protection Research for Industrial Control System.
- ✦ **2020 “Challenge Cup” College Entrepreneurship Contest** Third Prize in Zhejiang Province
Topic: Cloud-Edge-Terminal Collaborative Security Protection for the Internet of Things
- ✦ **2021 “Challenge Cup” College Scientific Innovation Contest** Third Prize in Zhejiang Province
Topic: Cloud-Edge-Terminal Collaborative Security Protection for the Internet of Things
- ✦ **2021 China College Computer Competition (C4)** **Second Prize in Eastern China Division**
Topic: Integrative Security Solution for Industrial Networks and the Internet of Things.
- ✦ **2021 The Interdisciplinary Contest in Modeling (ICM)** Honorable Mention
Topic: Exploration of the Impact Factors for Music Trending – A Graph-based Approach.
- ✦ **2021 “FLTRP-ETIC Cup” English Reading Contest** **First Prize in Zhejiang Province**

Extracurricular Activities and Honorary Titles

2018~2019	Class Leader
	Second Prize Winner of “ <i>Freshmen Cup</i> ” Speech Contest of Hangzhou Dianzi University
2019~2020	Class Leader
	Head Secretary of the Students Union
	Team leader of the student volunteers for China West Lake Cybersecurity Conference Student volunteer for Hangzhou Cyber Security Week. Appreciated by the local government
2020~2021	Class Leader
	President of the Students Union Top 10 Students of the Year
2021~2022	Class Leader
	Honorary Counsellor of the Students Union
	Valedictorian of the University Graduation Ceremony Outstanding Graduates (<i>Summa Cum Laude</i>) in Zhejiang Province