

# 夏帅凡 | XIA Shuaifan

<https://collin911.github.io/homepage/>



## 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

<b>Hangzhou Dianzi University</b>	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)		
<b>Tongji University</b>	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.
- ✦ Z. Mo, S. Xia, S. Shen, S. Du and Q. Liu, "A Cloud-Edge-Terminal Collaborative System for Image-Based Crowd Counting," *2023 IEEE International Conference on Metaverse Computing, Networking and Applications (MetaCom)*, Kyoto, Japan, 2023, pp. 642-647, doi: 10.1109/MetaCom57706.2023.00113.
- ✦ X. Li, S. Xia, Q. Liu and Y. Bai, "Long Range Barcode Scan Using Resonant Beam," *2023 IEEE 24th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Shanghai, China, 2023, pp. 456-460, doi: 10.1109/SPAWC53906.2023.10304467.

## Scholarships

<b>First Class Scholarship for Excellence</b>	<b>Every Semester, Undergraduate</b>
Scholarship for Innovation Practice	2 <sup>nd</sup> , 3 <sup>rd</sup> , 6 <sup>th</sup> Semesters, Undergraduate
Scholarship for Student Affairs	1 <sup>st</sup> , 4 <sup>th</sup> Semesters, Undergraduate
<b>Zhejiang Provincial Scholarship for Undergraduates</b>	<b>2019, 2021</b>
<b>China National Scholarship for Undergraduates</b>	<b>2020</b>
Scholarship for Meritorious Graduates	2022
<b>China National Scholarship for Postgraduates (M)</b>	<b>2022</b>

## 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. <b>Appreciated by the local government</b>
2020~2021	Class Leader
	<b>President of the Students Union</b> <b>Top 10 Students of the Year</b>
2021~2022	Class Leader
	Honorary Counsellor of the Students Union
	<b>Valedictorian of the University Graduation Ceremony</b> <b>Outstanding Graduates (<i>Summa Cum Laude</i>) in Zhejiang Province</b>
2022~2023	Excellent Student in Tongji University