

♥ Republic of Korea ⊠ ohtk@kaist.ac.kr 📞 +82 10 9133 2496 🔗 https://ohtaekkk.github.io/

in ohtaekk

BIO ____

Taekkyung Oh is a Ph.D student in System Security Lab at KAIST, advised by Professor Yongdae Kim. He received a Master degree from Graduate School of Information Security at KAIST. His research interests are Cellular Network Security, Wireless System Security, Cyber-Physical System (CPS) Security, and Usable Security.

Education

Euuca		
Ph.D	 KAIST (Korean Advanced Institute of Science and Technology) Graduate School of Information Security 	Sep. 2021 – Present
	Advisor: Yongdae Kim	
MS	KAIST (Korean Advanced Institute of Science and Technology)	Sep. 2019 – Aug. 2021
	Graduate School of Information Security	
	Advisor: Yongdae Kim	
BS	SKKU (Sungkyunkwan University)	Mar. 2012 – Aug. 2019
	Electronic and Electrical Engineering	
	Computer Engineering (double major)	
Publi	cations	
Enabli	ng Physical Localization of Uncooperative Cellular Devices (To appear)	PDF 🗹
	yung Oh , Sangwook Bae, Junho Ahn, Yonghwa Lee, Tuan Dinh Hoang, Min Suk Kang, e Tippenhauer, Yongdae Kim	
	lings of the 30th Annual International Conference on Mobile Computing and Networking obiCom 2024)	
LTESn	iffer: An Open-source LTE Downlink/Uplink Eavesdropper	PDF 🗹
	Dinh Hoang, CheolJun Park, Mincheol Son, Taekkyung Oh , Sangwook Bae, Junho Ahn, Seok Oh, Yongdae Kim	Code 🗹
	dings of the 16th ACM Conference on Security and Privacy in Wireless and Mobile Networks iSec 2023)	
Void:	A Fast and Light Voice Liveness Detection System	PDF 🗹
	nmad Ejaz Ahmed, Il-Youp Kwak, Jun Ho Huh, Iljoo Kim, Taekkyung Oh , Hyoungshick Kim <i>dings of the 29th USENIX Security Symposium (Security 2020)</i>	
Poster Syster	። I Can't Hear This Because I Am Human: A Novel Design of Audio CAPTCHA n	PDF 🗹
Jusop	Choi, Taekkyung Oh , William Aiken, Simon S. Woo, Hyoungshick Kim	
Proceed ACCS 20	dings of the 11th ACM Asia Conference on Computer and Communications Security (ACM ASI- 018)	
Resea	arch Projects	
	-	

Apr. 2022 - Dec. 2024 Tracking and identifying devices and call traffic in voice phishing ecosystem

- Funded 4.5 million USD by the Korean National Police Agency
- Project manager

 Developing a technology for detecting an open-source based fake base station Funded 100K USD by the Korean National Intelligence Service (NIS) Project manager 	Feb. 2024 - Dec. 2024
Invited Talks	
 Testing, Analyzing, Improving Security of Cellular Networks with srsRAN srsRAN Project Workshop, Software Radio Systems (SRS) Video (with Yongdae Kim) Z 	Oct. 2023 Arlington, Virginia, USA
 Voice Phisher Intelligence: Location tracking and infrastructure vulnerability analysis Security Intelligence Summit (SIS), S2W Inc. (cybersecurity company) 	Nov. 2022 Seoul, South Korea
Security Reports	2024
• CVE-2024-20077	
 Vulnerability in radio control and uplink scheduling mechanism in LTE, GSMA CVD-2023-0070 CVD-2023-0077 	2023
Honors & Awards	
Student Travel Grant for ACM MobiCom 2024Funded 800 USD by ACM SIGMOBILE	Nov. 2024
Korean Government ScholarshipFull-Ride Scholarship	Sep. 2019 - Present
Undergraduate Research Conference in College of Software, SKKUBronze Prize	Nov. 2018
 Dean's List, SKKU Reward for students who got obvious scholar performance (Top 5%) 	Sep. 2017 & Sep. 2018
 Global Idea Contest by Daewoo Electronics Development of noise canceling technique for home appliances Honorable Mention 	Nov. 2017
Idea Contest of Assistive Technology Device for Disabled Students by the Korean Ministry of Education	Dec. 2016
 Development of function-graph converter for blind First Prize (Minister's Award, Ministry of Education) 	
Experience	
KAIST, Counseling AssistantConducted over 30 student counseling sessions	Feb. 2024 – Present
Republic of Korea Marine Corps, External Security Advisor	Apr. 2023 – Present

 Analyzing global trends in cyber warfare techniques and strategies 	
 Paper review, External (secondary) reviewer IEEE Symposium on Security and Privacy (SP 2024) USENIX Security Symposium (Security 2023) Network and Distributed System Security Symposium (NDSS 2020 - 2021) 	
 KAIST, Teaching Assistant (EE488) Introduction to Cryptography Engineering 2022 Spring (EE515) Theory of Hacking (Security 101) 2021 Fall (CS448) Introduction to Information Security 2021 Spring (IS521) Information Security Laboratory 2020 Fall 	Sep. 2020 – Aug. 2022
 Republic of Korea Ministry of Education, External Software Advisor Consulting on the development of Braille devices and assistive applications for visually impaired individuals 	Dec. 2019
 SKKU Security Lab, Undergraduate Researcher Usable security and voice authentication (advised by Prof. Hyongshick Kim) 	Dec. 2016 - Dec. 2018
 SKKU System Consultant Group, Web Developer Full-stack developer for web applications (JavaScript, SQL, HTML, CSS) 	Mar. 2016 - Jul. 2017
Republic of Korea Army, Combat Engineer	Oct. 2013 - Jun. 2015