

Yoonkyo Jung

Assistant Professor · Prosepective Ph.D student

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Brief Bio

Yoonkyo Jung is an Air Force captain from the Republic of Korea, currently working as a tenure-track assistant professor at Republic of Korea Air Force Academy (ROKAFA). He was chosen as a recipient of a tuition scholarship funded by the Korean Ministry of National Defense. His research interests focus on privacy-preserving networks, machine learning-driven networked systems, and future wireless networks.

Education

Seoul National University (SNU)

M.S. in Computer Science and Engineering

- Network Convergence & Security Laboratory
- Advisor: Ted "Taekyoung" Kwon
- Thesis: Consistency Analysis between Privacy Policy and Mobile Application

Seoul, South Korea

Mar. 2019 - Feb. 2021

Republic of Korea Air Force Academy (ROKAFA)

B.S. in System Engineering

- Cadet Leadership: Squadron Commander(Jun. 2016 - Oct. 2016), Battalion Commander(Oct. 2016 - Feb. 2017)
- Thesis: Efficiency Validation and Improvement of Bus Booking Mobile Application

Cheongju, South Korea

Mar. 2013 - Feb. 2017

Professional Experience

Department of Computer Science, ROKAFA

Department Chair

Assistant Professor

Full-time Lecturer

- Hired new faculty members and taught more than ten classes

Cheongju, South Korea

Jan. 2023 - now

Apr. 2022 - now

Feb. 2021 - Mar. 2022

Aerospace Force Weapon Systems Laboratory, ROKAFA

Researcher

Coordinator

Cheongju, South Korea

Feb. 2021 - now

Aerospace Research Institute, ROKAFA

Project Management Officer

Manager

Cheongju, South Korea

Dec. 2021 - Dec. 2022

Department of Computer Science and Engineering, SNU

Research Assistant

Seoul, South Korea

Feb. 2019 - Jan. 2021

Air Defense Missile Command, ROKAF

Radar Maintenance Officer

- Maintained Ballistic Missile Early-warning Radar as a maintenance team leader.
- Took charge of interpreting for resident technical agents from Israel.

Osan, South Korea

Apr. 2018 - Jan. 2019

Education and Training Command, ROKAF

Recruit Training Officer

Jinju, South Korea

Mar. 2017 - Mar. 2018

Publications

<Journal>

Reliability Analysis of Privacy Policies Using Android Static Analysis Yoonkyo Jung KIPS Transactions on Computer and Communication Systems, Vol.12, No.1	2023
Design of Surveillance Device Control System Using Audio Beamforming Jaesung Sim, Yoonkyo Jung Journal of Military Science Research, Vol.73, No.2	2022
Development and Performance Evaluation of Chatbot System for Office Automation Yoonkyo Jung Asia-pacific Journal of Convergent Research Interchange, Vol.8, No.10	2022
<Conference>	
Development of Multi-copter Propeller Distortion Measurement Device Using Three-side Image Analysis Songhyeon Kim, Jaesung Sim, Yoonkyo Jung KIISE Korea Computer Congress	2022
Reliability Analysis of Privacy Policies Based on Android Static Analysis Yoonkyo Jung Annual Spring Conference of KIPS	2022
A Study on the Development and Performance Improvement of Chatbot for Office Automation Junsoo Park, Youngjun kim, Yoonkyo Jung KIICE Spring Conference	2022
Android Remote Unlocking Service using Synthetic Password: A Hardware Security-preserving Approach Sungmin Lee, Yoonkyo Jung, Jaehyun Lee, Byoungyoung Lee, Ted "Taekyoung" Kwon IEEE Secure Development Conference (SecDev)	2021

Teaching

Republic of Korea Air Force Academy Assistant Professor <ul style="list-style-type: none"> 2023 Fall: Data Communication, Hacking and Defense, Convergence Capstone Design 2023 Spring: Network Programming, Embedded System, Convergence Capstone Design 2022 Fall: Hacking and Defense 2022 Spring: Embedded System 	<i>Cheongju, Republic of Korea</i> Apr. 2022 - now
Republic of Korea Air Force Academy Full-time Lecturer <ul style="list-style-type: none"> 2021 Fall: Software Programming, Data Structure, Hacking and Defense 2021 Spring: Software Programming, Embedded System 	<i>Cheongju, Republic of Korea</i> Feb. 2021 - Mar. 2022
Seoul National University Teaching Assistant <ul style="list-style-type: none"> 2020 Fall: Internet Security and Privacy 	<i>Seoul, Republic of Korea</i> Sep. 2020 - Dec. 2020

Research Projects

DevFest Seoul by Google Developer Group Korea Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare> <ul style="list-style-type: none"> Introduced the history of web technology and the JAM stack which is for the modern web application development. Introduced how to freely host the web application with high performance utilizing global CDN services. 	<i>Seoul, S.Korea</i> Nov. 2017
6th CodeEngn (Reverse Engineering Conference) Presenter for <DEFCON 20th : The way to go to Las Vegas> <ul style="list-style-type: none"> Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF 	<i>Seoul, S.Korea</i> Jul. 2012

Honors & Awards

- 2024 **Full Scholarship for Graduate Studies (Ph.D)**, R.O.K Ministry of National Defense
- 2022 **Best Paper Award**, Korea Computer Congress, KIISE
- 2021 **Excellence Award**, Creative and Innovation Idea Hackathon, ROKAF
- 2019 **Full Scholarship for Graduate Studies (M.S)**, R.O.K Ministry of National Defense
- 2016 **Best Undergraduate Paper Award**, Student Paper Contest, KOPOMS

Professional Memberships

- 2023 **Member**, Chungbuk AI-SW Education Sharing Council
- 2023 **Member**, Korea Society of Computer Information (KSCI)
- 2023 **Member**, Korean Institute of Information Technology (KIIT)
- 2022 **Member**, Korea Institute of information and Communication Engineering (KIICE)
- 2022 **Member**, Korea Convergence Technology Research Society (KTCRS)
- 2022 **Lifetime Member**, Korea Information Processing Society (KIPS)
- 2021 **Lifetime Member**, Korean Institute of Information Scientists and Engineers (KIISE)

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

Core Member & President at 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

Member

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

Skills

Program-

ming **Problem Writer**, 2016 CODEGATE Hacking Competition World Final

Tools

Organizer & Co-director, Python, \LaTeX

S.Korea