Yoonkyo Jung

Assistant Professor · Prosective 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 R.O.K 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

Republic of Korea Air Force Academy (ROKAFA)

B.S. in System Engineering

D.C. in Contam Familia and

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

Professional Experience ______ Department of Computer Science, ROKAFA

Department Chair Assistant Professor

Full-time Lecturer

Hired new faculty members and taught more than ten classes
 Tablished Days through a filter and also and a supplied transfer.

• Established Department of AI and planned a curriculum

Aerospace Force Weapon Systems Laboratory, ROKAFA

Researcher

Coordinator

Aerospace Research Institute, ROKAFA

Project Management Officer

Manager

Department of Computer Science and Engineering, SNU

Research Assistant

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.

Education and Training Command, ROKAF

Recruit Training Officer

Seoul, South Korea

Mar. 2019 - Feb. 2021

Cheongju, South Korea

Mar. 2013 - Feb. 2017

Cheongju, South Korea

Jan. 2023 - now Apr. 2022 - now

Feb. 2021 - Mar. 2022

Cheongju, South Korea

Feb. 2021 - now

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Cheongju, South Korea Dec. 2021 - Dec. 2022

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Seoul, South Korea

Feb. 2019 - Jan. 2021

Osan, South Korea

Apr. 2018 - Jan. 2019

Jinju, South Korea

Mar. 2017 - Mar. 2018

Publications

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

Assistant Professor

Full-time Lecturer

Teaching Assistant

- 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

Republic of Korea Air Force Academy

Cheongju, South Korea

Feb. 2021 - Mar. 2022

- 2021 Fall: Software Programming, Data Structure, Hacking and Defense
- 2021 Spring: Software Programming, Embedded System

Seoul National University

Seoul, South Korea

Sep. 2020 - Dec. 2020

· 2020 Fall: Internet Security and Privacy

Research Projects

Performance Improvement of T-50 Series by the Flight Education and Training System

ROKAFA

Agency for Defense Development (ADD)

Apr. 2023 - Jul. 2023

Development and Implementation of R.O.K Air Force Live-Virtual-Constructive (LVC) Architecture

ROKAFA

Korea Aerospace Industries (KAI)

Dec. 2021 - Dec. 2022

Versatile Network System Architecture for Multi-dimensional Diversity

Institute for Information & Communication Technology Planning (IITP)

Jan. 2020 - Dec. 2020

Smartcampus: A Research on Localization Scheme based on Multiple Sensors

SNU

Samsung Electronics

May. 2019 - Apr. 2020

A Research on Security Scheme for Interconnection of Heterogeneous Networks

SMLI

Electronics and Telecommunications Research Institute (ETRI)

Jun. 2019 - Oct. 2019

Honors & Awards

- 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 Al-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 _____

- 2022 Founder & Instructor, ROKAFA Programming Club
- 2022 **Reviewer**, Asia-pacific Journal of Convergent Research Interchange
- 2020 **Reviewer**, International Conference on ICT Convergence
- 2019 **Researcher**, Samsung Electronics SNU R&D Center
- 2019 **Program Chair**, eLearning Competition, Global IT Challenge
- 2019 **Technical Advisor**, Global IT Challenge, RI Korea
- 2016 Cadet Leadership, Squadron Commander & Battalion Commander, ROKAFA

Skills

Languages Python, C, C++, JavaScript, SQL, JAVA, Kotlin, GO

Technologies Docker, Git, ĔTĘX, MySQL, NoSQL(MongoDB), HTML/CSS **Platforms** Linux(Ubuntu), Windows, Nginx, AWS, Oracle Cloud, Azure

Frameworks TensorFlow/Keras, Pytorch