

Hyeonmin Lee

CV

PERSONAL INFORMATION

Email: hmlee@mmlab.snu.ac.kr

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Homepage: <https://hyeonmin-lee.github.io/>

OBJECTIVE

I'm a Ph.D. student in the Department of Computer Science and Engineering at Seoul National University. (*Advisor: Prof. Taekyoung "Ted" Kwon*)

My research interests focus on network security and network measurement: Are we using the network correctly and safely (especially, about security protocols)? How can we make the network (more) safely?

EDUCATION

2016 - Present

M.S./Ph.D. Integrated Course in Dept. of Computer Science and Engineering, Seoul National University, Seoul, Republic of Korea
(Advised by Prof. Taekyoung "Ted" Kwon)

2011 - 2016

B.S. in Dept. of Computer Science and Engineering, Seoul National University, Seoul, Republic of Korea

PUBLICATIONS ☐ Conference

A Longitudinal and Comprehensive Study of the DANE Ecosystem in Email

Hyeonmin Lee, Aniketh Gireesh, Roland van Rijswijk-Deij, Taekyoung "Ted" Kwon, Taejoong Chung

In Proceedings of the USENIX Security Symposium (**USENIX Security**), Boston, United States, August 2020

Development of Cellular Core Network Enabling Network Function Virtualization

Hyeonmin Lee, Junghwan Song

The 28th Joint Conference on Communication and Information (**JCCI**), Yeosu, Korea, May 2018

☐ Journal

TwinPeaks: An Approach for Certificateless Public Key Distribution for the Internet and Internet of Things

Eunsang Cho, Jeongnyeo Kim, Minkyung Park, **Hyeonmin Lee**, Chorom Hamm, Soobin Park, Sungmin Sohn, Minhyeok Kang, Ted "Taekyoung" Kwon
Elsevier Computer Networks (SCI-E)

RESEARCH PROJECTS

Versatile Network System Architecture for Multi-dimensional Diversity

Apr. 2016 - Present

Supported Institute for Information and Communication Technology Promotion (IITP)
Project Manager (Lab.) / System Designer / Programmer

Research on Traceability for Data Stability on Cloud-edge Lifecycle
Apr. 2020 - Present
Supported Institute for Information and Communication Technology Promotion (IITP)
Researcher / Programmer

Research on GPU Acceleration for Fully Homomorphic Encryption
Feb. 2020 - Present
Korea Institute of Information Security & Cryptology (KIISC)
Programmer

Developing High-performance Programming Environments and Computing Systems
Sep. 2019 - Apr. 2020
Supported by National Research Foundation of Korea (NRF)
Programmer

Research on Distributed Web Structure and Counterplan
Aug. 2019 - Nov. 2019
Supported by Korea Internet and Security Agency (KISA)
Researcher

Research on Trust and Security Scheme for Interconnection of Heterogeneous Networks
Sep. 2018 - Nov. 2018
Supported Electronics and Telecommunications Research Institute (ETRI)
Researcher

Research and Development of Open 5G Reference Model
Aug. 2016 - Feb. 2019
Supported by Giga KOREA Foundation
System Designer / Programmer

Content Delivery Framework Using Spatial and Temporal Dynamics in Mobile Networks
Mar. 2016 - May. 2016
Supported by National Research Foundation of Korea (NRF)
Programmer

Development of Network Security Acceleration for Next-generation Low-power SoC
Jul. 2015 - Dec. 2015
Supported by Samsung Electronics
Programmer

PATENTS **Communication Method Based on Integrated Flat ID and System**
Registration No. 1020231150000
Republic of Korea, Sep. 11, 2019

EXPERIENCE **Internship** May. 2019 - Aug. 2019
The Center for Cybersecurity, Rochester Institute of Technology
Rochester, USA
– Topic: Measuring and analyzing ecosystem of DANE protocol in Email

Teaching Assistance

Spring 2016

Engineering Frontiers and Leadership 2 (Class)

Dept. of Computer Science and Engineering, Seoul National University

PROGRAMMING SKILLS C/C++, Python, Java, Go