

Hyeonmin Lee

CV

PERSONAL INFORMATION **Email:** hmlee@mmlab.snu.ac.kr
Address: Network Convergence and Security Lab., 5F, Building 301, 1, Gwankak-ro, Gwanak-gu, Seoul, Republic of Korea
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
2014 - 2014
Visiting Student at Dept. of Information Technology, Uppsala University, Uppsala, Sweden (1 term)

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

Research on Traceability for Data Stability on Cloud-edge Lifecycle

Apr. 2020 - Present

Supported Institute for Information and Communication Technology Promotion (IITP)

Researcher / Programmer

Versatile Network System Architecture for Multi-dimensional Diversity

Apr. 2016 - Dec. 2020

Supported Institute for Information and Communication Technology Promotion (IITP)

Project Manager (Lab.) / System Designer / Programmer

Research on GPU Acceleration for Fully Homomorphic Encryption

Feb. 2020 - Nov. 2020

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