

# Hyeonmin Lee

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## CV

- PERSONAL INFORMATION** **Email:** hmlee@mmlab.snu.ac.kr  
**Address:** Network Convergence and Security Lab., 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
- 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)  
*System Designer / 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