

Geumhwan CHO

PERSONAL DATA

GENDER: Male
CITIZENSHIP: South Korea
ADDRESS: Sungkyunkwan University, Suwon, Republic of Korea
TEL: +82 31-299-4104
EMAIL: geumhwan@skku.edu

STATUS

SEPTEMBER 2014 – *present*
PhD Candidate in Department of Computer Science and Engineering,
College of Information and Communication Engineering, Sungkyunkwan University
Supervisor: Prof. Hyounghshick Kim

EDUCATION

2011.3–2013.2 **M.S.** in DEPARTMENT OF COMPUTER ENGINEERING,
Kyung Hee University, Korea
Supervisor: Prof. Sungyoung Lee
Thesis: “Sublinear and Locally Sublinear Prices”

2004.3–2011.2 **B.S.** in DEPARTMENT OF COMMUNICATION ENGINEERING,
Cheongju University, Korea
Supervisor: Prof. Nam-Soo Kim

RESEARCH INTERESTS

Usable security and user privacy
User privacy
User authentication
Mobile security

EXPERIENCE

- **2014.9–present:** Department of Computer Science and Engineering, College of Information and Communication Engineering, Sungkyunkwan University, Korea
PhD Candidate – Security Engineering Laboratory
- **2011.3–2013.2:** Department of Computer Engineering, College of Electronics and Information, Kyung Hee University, Korea
Master Candidate – Ubiquitous Computing Laboratory

APPOINTMENTS

- **2015:** Member of Organizing Committee In International Conference on Software Security and Assurance (ICSSA)

TECHNICAL/SPECIAL SKILLS

OS: Windows and Linux (Ubuntu)

Programming: C and Python

Simulation and Math package: Matlab and R

Languages: English and Korean (native language)

PUBLICATIONS

- **Refereed Publications**

- **Geumhwan Cho**, Jun Ho Huh, Junsung Cho, Seongyeol Oh, Youngbae Song and Hyounghshick Kim, "SysPal: System-guided Pattern Locks on Android", The 38th IEEE Symposium on Security and Privacy, 2017.
- Seunghun Cha, Jaewoo Park, **Geumhwan Cho**, Jun Ho Huh and Hyounghshick Kim, "WiPING: Wi-Fi signal-based PIN Guessing attac", CCS: The 23rd ACM Conference on Computer and Communications Security (Poster), Vienna, Austria, 2016.
- **Geumhwan Cho**, Junsung Cho, Youngbae Song, Donghyun Choi and Hyounghshick Kim, "Combating online fraud attacks in mobile-based advertising", EURASIP Journal on Information Security, Vol. 2016(1), 2016.
- **Geumhwan Cho**, Junsung Cho, Youngbae Song and Hyounghshick Kim, "An empirical study of click fraud in mobile advertising networks", IWCC: The 4th Workshop on Cyber Crime held in conjunction with ARES, Toulouse, France, 2015.
- Junsung Cho, **Geumhwan Cho** and Hyounghshick Kim, "Keyboard or Keylogger?: a security analysis of third-party keyboards on Android", PST: The 13rd International Conference on Privacy, Security and Trust, Izmir, Turkey, 2015.
- Youngbae Song, **Geumhwan Cho**, Seongyeol Oh, Hyounghshick Kim and Jun Ho Huh, "On the Effectiveness of Pattern Lock Strength Meters - Measuring the Strength of Real World Pattern Locks", CHI: The 33rd ACM SIGCHI Conference on Human Factors in Computing Systems, Seoul, Korea, 2015. (acceptance rate: $565/2435 = 23\%$)
- Jaehoon Jeong, Jihyeok Seo, **Geumhwan Cho**, Hyounghshick Kim and Jung-Soo Park, "A Framework for Security Services Based on Software-Defined Networking", DC2: The 2nd Workshop on Device Centric Cloud held in conjunction with IEEE AINA, Gwangju, Korea, 2015.

- **Patents**

- **Geumhwan Cho**, Seongyeol Oh, Youngbae Song, Jun Ho Huh and Hyounghshick Kim, "Pattern generating method for pattern lock", Korea Patent (10-2016-0114369), Dec. 2015.
- Tai-Myoung Chung, Hyounghshick Kim, KIM, Nam-Uk Kim, Jun-Kwon Jung, **Geumhwan Cho** and Youngbae Song, "Cyber inspection system and method using SDN", Korea Patent (10-2015-0000), Dec. 2015.

REFERENCES

Hyounghshick Kim

Assistant Professor, Sungkyunkwan University, Suwon, Korea

hyoung@skku.edu

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