

JINSEO LEE

PERSONAL DATA

Place and Date of Birth: Republic of Korea | 08 February 2002
Address: 27, Eoeun-ro 42beon-gil, Yuseong-gu, Daejeon, 34139,
Republic of Korea
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RESEARCH INTERESTS

Network security & privacy; anonymity networks; Internet measurements; censorship & surveillance

EDUCATION

KAIST, Daejeon, Republic of Korea

Ph.D. in Computer Science Feb 2025–Present

M.S. in Computer Science Aug 2023–Feb 2025

- Advisor: Prof. Min Suk Kang

- Master Thesis: *Measuring DNS-over-HTTPS Downgrades: Prevalence, Techniques, and Bypass Strategies*

B.S. in Computer Science

Feb 2019–Aug 2023

- Double Major in Business and Technology Management

- *Latin Honors: Cum Laude*

REFERRED PUBLICATION

- [1] **Jinseo Lee**, Hobin Kim, and Min Suk Kang. 2025. Onions Got Puzzled: On the Challenges of Mitigating Denial-of-Service Problems in Tor Onion Services. In *Proceedings of the 34th USENIX Security Symposium* (Seattle, WA, USA) (*USENIX Security* '25). USENIX Association, Berkeley, CA, USA, 19 pages. <https://www.usenix.org/conference/usenixsecurity25/presentation/lee>
- [2] **Jinseo Lee**, David Mohaisen, and Min Suk Kang. 2024. Measuring DNS-over-HTTPS Downgrades: Prevalence, Techniques, and Bypass Strategies. *Proc. ACM Netw.* 2, CoNEXT4, Article 28 (December 2024), 22 pages. <https://doi.org/10.1145/3696385>

AWARDS AND HONORS

Presidential Science Scholarship for Graduate Students Jun 2025–Present
Korea Student Aid Foundation (KOSAF)

Award for Ambitious Failure Feb 2025
President of KAIST

Inseong Scholarship Jan 2025

Outstanding Poster Nov 2024
5th place at the 2024 Security@KAIST Fair

KAIST Full Scholarship for Graduate Program Aug 2023–Present

KAIST Full Scholarship for Undergraduate Program Feb 2019–Aug 2023

PROFESSIONAL SERVICE

Program Committee

Poster/Demo Session Committee at ACM CCS '25

2025

TEACHING AND ADVISING

Teaching Assistant

Network Security

Feb 2025–Jun 2025

- KAIST

- Worked with Prof. Min Suk Kang

Undergraduate Student Advising

Jongkook Han

Jan 2025–Present

- KAIST

- Project description: Designing and evaluating a new side channel attack to deanonymize Tor onion services

RESEARCH PROJECTS

Sep 2024–Present

Deanonymization of Tor Onion Services

We have discovered a critical side channel in Tor and are conducting a thorough evaluation.

Advisor: Prof. Min Suk Kang

Cooperated with Jongkook Han

Aug 2023–Sep 2024

Tor DoS Vulnerability

We discovered a serious Denial-of-Service (DoS) vulnerability in Tor client puzzles and are collaborating with the Tor developers to address it [1].

Advisor: Prof. Min Suk Kang

Cooperated with Hobin Kim

Jan 2023–June 2024

Downgrades of DNS-over-HTTPS

We measured the current status of DNS-over-HTTPS downgrades worldwide, uncovering their prevalence, techniques, and bypass strategies [2].

Advisor: Prof. Min Suk Kang

Cooperated with Prof. David Mohaisen

Mar 2023–May 2023

Qualcomm-KAIST Innovation Awards 2023

We participated in the Qualcomm-KAIST Innovation Award 2023, a hackathon aimed at developing a reliable machine learning model to predict the Myers-Briggs Type Indicator (MBTI) of individuals using only the questions and corresponding answers. The source code and report for this project are available on [GitHub](#).

Cooperated with Seogyong Jeong and Joohee Kim

Oct 2022–Dec 2022

DUDE (DUplication DETector)

We developed a GitHub Action designed to detect duplicate GitHub issues and notify their respective authors. You can find it on the [GitHub Marketplace](#).

Advisor: Prof. Kihong Heo

Mar 2022–June 2022

Improved DialogueRNN: Dealing with Emotional Shift

We conducted research on emotion detection using artificial intelligence, which exhibited subpar performance when analyzing dialogues with rapid changes in emotion. We identified this challenge as the *emotional shift problem* and proposed a solution to address it, resulting in enhanced performance.

Cooperated with Darae Lee, Jonghee Jeon, and Joohee Kim

LEADERSHIP EXPERIENCE

Peer Counselor KAIST Counseling Center	Jun 2025–Present
Graduate Student Representative KAIST School of Computing	Aug 2023–February 2024
Representative KAIST Catholic Student Union Sanarae	Sep 2022–Jun 2023
Standing Committee Daejeon Catholic Council of University Students	Apr 2021–Dec 2021
Executive KAIST Catholic Student Union Sanarae	Sep 2019–Dec 2020

SKILLS

Programming Languages	Beginner: Rust, Java Intermediate: OCaml Advanced: C, C++, Python
Languages	Korean: Native English: Professional Working Proficiency Norwegian: Elementary Proficiency