

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
- Advisor: Prof. Min Suk Kang

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> (*Recognized with Honorable Mention*)
- [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

Poster Best Reviewer Award Oct 2025
ACM CCS '25: Awarded to top 5 reviewers out of 51 (10%)

Excellence Award Sep 2025
The Third AI Hackathon for Network Intelligence: 2nd place out of 94 teams (2%)

Honorable Mention [1] Aug 2025
USENIX Security '25: Awarded to 25 recognized papers out of 407 (6%)

Presidential Science Scholarship for Graduate Students Jun 2025–Present
Korea Student Aid Foundation: Awarded to 121 recipients out of 2,355 applicants (5%)

Award for Ambitious Failure Feb 2025
President of KAIST: Awarded to 3 teams or individuals for contributing to the promotion of a culture of challenge and innovation unafraid of failure

Inseong Scholarship Jan 2025
KAIST: Awarded to 20 graduate students for exemplary conduct, community service, and contributions to the university's development and reputation ($<1\%$)

KAIST Full Scholarship for Graduate Program Aug 2023–Present

PROFESSIONAL SERVICE

Program Committee

Poster/Demo Session Committee at ACM CCS '25 2025

Artifact Evaluation Committee

USENIX Security '26 2025

PETS '26 2025

IEEE S&P '26 2025

TEACHING AND ADVISING

Teaching Assistant

Introduction to Computer Networks (Prof. Min Suk Kang, KAIST) Sep 2025–Dec 2025

Network Security (Prof. Min Suk Kang, KAIST) Feb 2025–Jun 2025

Undergraduate Student Advising

Jongkook Han (KAIST) Jan 2025–Present

- Designed and evaluated a new side channel attack to deanonymize Tor onion services at scale

RESEARCH PROJECTS

Deanonymization of Tor Onion Services Sep 2024–Present

Identified a critical side channel enabling large-scale deanonymization of Tor onion services and evaluated practical mitigation strategies

DoS Attacks against Tor Onion Services Aug 2023–Sep 2024

Discovered a serious Denial-of-Service (DoS) vulnerability in Tor client puzzles and collaborated with the Tor Project to address it [1]

Downgrades of DNS-over-HTTPS Jan 2023–June 2024

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

DUDE (DUplication DETector) Oct 2022–Dec 2022

Developed a GitHub Action designed to detect duplicate GitHub issues and notify their respective authors ([GitHub Marketplace link](#))

LEADERSHIP EXPERIENCE

Peer Counselor KAIST Counseling Center	Jun 2025–Present
Graduate Student Representative KAIST School of Computing	Aug 2023–Feb 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

LANGUAGES

Korean Native
English Professional working proficiency
Norwegian Elementary proficiency