

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> (*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 2025

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: Selected among 25 recognized papers out of 407 papers (6%)

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

Award for Ambitious Failure Feb 2025
President of KAIST

Inseong Scholarship KAIST	Jan 2025
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	
PETS '26	2025
IEEE S&P '26	2025

TEACHING AND ADVISING

Teaching Assistant	
Introduction to Computer Networks	Sep 2025–Dec 2025
Network Security	Feb 2025–Jun 2025
- KAIST	
- Worked with Prof. Min Suk Kang	
Undergraduate Student Advising	
Jongkook Han	Jan 2025–Present
- KAIST	
- Designed and evaluated a new side channel attack to deanonymize Tor onion services at scale	

RESEARCH PROJECTS

Sep 2024–Present	Deanonymization of Tor Onion Services Identified a critical side channel enabling large-scale deanonymization of Tor onion services and evaluated practical mitigation strategies. Cooperated with Jongkook Han; Advised by Prof. Min Suk Kang
Aug 2023–Sep 2024	Tor DoS Vulnerability Discovered a serious Denial-of-Service (DoS) vulnerability in Tor client puzzles and collaborated with the Tor Project to address it [1]. Cooperated with Hobin Kim; Advised by Prof. Min Suk Kang
Jan 2023–June 2024	Downgrades of DNS-over-HTTPS Measured the status of DNS-over-HTTPS downgrades worldwide, uncovering their prevalence, techniques, and bypass strategies [2]. Cooperated with Prof. David Mohaisen; Advised by Prof. Min Suk Kang
Oct 2022–Dec 2022	DUDE (DUplication DEtector) Developed a GitHub Action designed to detect duplicate GitHub issues and notify their respective authors (GitHub Marketplace link). Advised by Prof. Kihong Heo

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