

# Seungju Lee

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## EDUCATION

### Princeton University

*Ph.D. in Electrical and Computer Engineering*

Adviser: Prof. Prateek Mittal

Aug 2023 - Present

Selected coursework: Security and Performance Challenges in Networked Systems, Security and Privacy in Computing and Communications, Information Security, Hardware Security, Information Theory

### Seoul National University

*B.S. in Electrical and Computer Engineering*

*B.S. in Mathematical Sciences*

Mar 2019 - Feb 2023

## RESEARCH INTERESTS

Network security, Network privacy, Network protocols, QUIC

## PUBLICATIONS

### QUICstep: Evaluating connection migration based QUIC censorship circumvention

Seungju Lee, Mona Wang, Watson Jia, Qiang Wu, Henry Birge-Lee, Liang Wang, Prateek Mittal. *Proceedings on Privacy Enhancing Technologies*, 2026. (**Best Student Paper Award**)

### [Poster] Fingerprinting QUIC browser clients

Seungju Lee. *USENIX Security*, 2025.

## WORK IN PROGRESS / UNDER REVIEW

### Multipath routing protocol for confidentiality

- Designing and evaluating a multipath routing protocol combined with continuous key updates to provide high key secrecy and confidentiality in face of passive and active adversaries

## SKILLS

- **Programming:** Python, Go, C/C++, Bash, MATLAB
- **Tools:** Wireshark, iptables, AWS

## INVITED TALKS

[Oct 2025] “QUICstep: Evaluating connection migration based QUIC censorship circumvention”. MadS&P Seminar, University of Wisconsin-Madison.

[Oct 2025] “Spotlight on Engineering”. EGR152 Foundations of Engineering, Princeton University.

[Nov 2024] “QUICstep: A lightweight method for circumventing QUIC-based censorship”. NextG Student Lunch Seminar Series, Princeton University.

## ACADEMIC SERVICE

- **Program committee:** FOCI 2026
- **External reviewer:** IMC 2024, USENIX Security 2026

## TEACHING EXPERIENCE

- **Seoul National University:** Basic Calculus tutor, Fall 2021, Spring 2022

## HONORS AND AWARDS

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Andreas Pfitzmann Best Student Paper Award (PETS)	2026
Global Korea Scholarship Program for Study Abroad (Korean government, USD 80,000)	2023 - 2025
Gold Prize, 40th University Students Contest of Mathematics	Jan 2022
Dooeul Scholarship (Dooeul Scholarship Foundation, Full tuition for 6 semesters)	Mar 2020 - Feb 2023
Merit Scholarship (Seoul National University, Full tuition for 1 semester)	Sep 2019 - Feb 2020