CURRICULUM VITAE

Personal Information

Full Name:	Seongmin Lee
Full Curriculum Vitae:	https://nimgnoeseel.github.io/resources/cv/cv.pdf
Google Scholar:	https://scholar.google.com/citations?user=-YSnc6kAAAAJ&hl=en
Personal Website:	https://nimgnoeseel.github.io

Education and Employment

Max Planck Institute for Security and Privacy   Germany
  Postdoctoral Researcher, Software Security Research group (Group head: Dr. Marcel Böhme) Sep. 2022 – Present

Korea Advanced Institute of Science and Technology   Republic of Korea
  Doctor of Philosophy, School of Computing (Advisor: Dr. Shin Yoo)   Sep. 2016 – Aug. 2022
  Bachelor of Science, School of Computing   Feb. 2012 – Aug. 2016
  Bachelor of Science, Department of Mathematical Sciences

Selected Publications

Journal Articles

- Seongmin Lee, Dave Binkley, Robert Feldt, Nicolas Gold, and Shin Yoo. Causal Program Dependence Analysis. *Science of Computer Programming*, 240, 2025

- Seongmin Lee, David Binkley, Robert Feldt, Nicolas Gold, and Shin Yoo. Observation-Based Approximate Dependency Modeling and Its Use for Program Slicing. *Journal of Systems and Software*, 179, 2021

- Seongmin Lee, David Binkley, Nicolas Gold, Syed Islam, Jens Krinke, and Shin Yoo. Evaluating Lexical Approximation of Program Dependence. *Journal of Systems and Software*, 160, 2020

Conference/Technical Reports

- Seongmin Lee, Shreyas Minocha, and Marcel Böhme. Accounting for Missing Events in Statistical Information Leakage Analysis. ICSE '25, 2025

- *Danushka Liyanage, *Seongmin Lee, Chakkrit Tantithamthavorn, and Marcel Böhme. Extrapolating Coverage Rate in Greybox Fuzzing. ICSE '24, 2024 (**Co-first authors with equal contribution*)

- Seongmin Lee and Marcel Böhme. Statistical Reachability Analysis. ESEC/FSE 2023, 2023

- Seongmin Lee, Shin Hong, Jungbae Yi, Taeksu Kim, Chul-Joo Kim, and Shin Yoo. Classifying False Positive Static Checker Alarms in Continuous Integration Using Convolutional Neural Networks. ICST '19, 2019

Academic Services

*Services before 2023 are omitted.

- Program committee: ASE'24, ISSTA'24, FUZZING'24, SCAM'24, ASE'23

- Reviewer: TOSEM'24, TSE'24, IST'24, ASE'24

Grants and Fellowships

- Title: *Statistical Security Analysis for Large, Evolving Software*
  Grant ID: DFG under Germany's Excellence Strategy - **EXC 2092 CASA - 390781972**
  Amount: Salary according to the remuneration group E 14 TV-L (full time, $\sim$ €136,000), Duration: 2024.01.01 – 2025.12.31

Awards and honors

- **Distinguished Artifact Reviewer Award**, 33rd USENIX Security Symposium, 2024

- **PhD Dissertation Award**, School of Computing, KAIST, 2022
  - *Title of Dissertation: Statistical Program Dependence Approximation*

- **2021 Naver Ph.D. Fellowship Award**: Awarded by NAVER Corp. to Ph.D. candidates who have published an outstanding research paper or have excellent publication performance, 2021