

DONGJAE LEE

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SUMMARY

I am currently a master's student in computer science and engineering. My current research interests include verifying realistic systems, concurrency, and security. I have research experience with the Coq proof assistant, compiler verification, concurrent program verification, and security.

EDUCATION

M.S., Computer Science and Engineering Seoul National University, Seoul, South Korea	Expected 02.2024
B.S., Physics, Computer Science and Engineering (Double Major) Seoul National University, Seoul, South Korea	08.2021

EXPERIENCE

Max Planck Institute for Security and Privacy Research Intern: Bochum, Germany <ul style="list-style-type: none">Advised by Cătălin HrițcuWorked on secure compilation	03.2023 - 08.2023
Software Foundations Lab, Seoul National University Research Intern: Seoul, South Korea <ul style="list-style-type: none">Advised by Chung-Kil HurWorked on Conditional Contextual Refinement	09.2020 - 08.2021
ROK Army (Mandatory Military Service) Sergeant: South Korea	01.2019 - 08.2020
Integrated Quantum Systems Lab, Seoul National University Research Intern: Seoul, South Korea <ul style="list-style-type: none">Advised by Dohun KimWorked on NV center qubits, programming and developing devices for experiments	04.2017 - 08.2017

PUBLICATIONS

*equal contribution

Stuttering for Free

Minki Cho*, Youngju Song*, **Dongjae Lee**, Lennard Gäher, Derek Dreyer.
International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2023).

Fair Operational Semantics

Dongjae Lee*, Minki Cho*, Jinwoo Kim, Soonwon Moon, Youngju Song, Chung-Kil Hur.
Conference on Programming Language Design and Implementation (PLDI 2023).

Conditional Contextual Refinement

Youngju Song, Minki Cho, **Dongjae Lee**, Chung-Kil Hur, Michael Sammler, Derek Dreyer.
Symposium on Principles of Programming Languages (POPL 2023).

Sequential Reasoning for Optimizing Compilers under Weak Memory Concurrency

Minki Cho*, Sung-Hwan Lee*, **Dongjae Lee**, Chung-Kil Hur, Ori Lahav.
Conference on Programming Language Design and Implementation (PLDI 2022).

TALKS

Fair Operational Semantics PLDI 2023: Orlando, Florida, United States	06.2023
Overview of Fair Operational Semantics (as a part of introducing Software Foundations Lab) SIGPL Winter School 2023 (The Korean Institute of Information Scientists and Engineers): Seoul, South Korea	02.2023

TEACHING

(TA) Topics in Programming Languages (Logic in computer science)

09.2023 - 12.2023

by Makoto Tatsuta: Seoul National University, Graduate level course

(TA) Principles of Programming

09.2022 - 12.2022

by Chung-Kil Hur: Seoul National University, Undergraduate level course

(TA) Principles and Practices of Software Development

03.2022 - 06.2022

by Chung-Kil Hur: Seoul National University, Undergraduate level course

ACTIVITIES

Developing a Coq tutorial for refinement-based verification: <https://github.com/mori1116/refinement-tutorial>