

Jaeho Lee

Curriculum Vitae

CONTACT INFORMATION

School of Electrical and Electronic Engineering
Yonsei University
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EDUCATION

Yonsei University, Seoul, Republic of Korea
M.S./Ph.D. Student, March 2020 to Present
Advisor: Prof. Hanjun Kim

Yonsei University, Seoul, Republic of Korea
Bachelor of Engineering in Electrical and Electronic Engineering, March 2014 to February 2020

Shinsung High School, Anyang, Republic of Korea
High school, March 2009 to February 2012

EXPERIENCE

Research Assistant, March 2020 to Present
Compiler Research Laboratory (Corelab), *Yonsei University*, Seoul, Republic of Korea

- Ransomware recovery module

Undergraduate Research Assistant, January 2019 to February 2020
Compiler Research Laboratory (Corelab), *Yonsei University*, Seoul, Republic of Korea

- Ransomware recovery module

ACTIVITIES

TEACHING

- **EEE2020: Data Structure and Algorithm**
Teaching Assistant, Yonsei University, Spring 2020
(Teaching classes about how to deal with C++ language code)
- **EEE3313: Introductory Digital Labs**, Yonsei University
Teaching Assistant, Yonsei University, Fall 2020
Teaching Assistant, Yonsei University, Spring 2021
Teaching Assistant, Yonsei University, Fall 2021
Teaching Assistant, Yonsei University, Spring 2022
Teaching Assistant, Yonsei University, Fall 2022
(Teaching lab classes about how to writing RTL Verilog code and designing hardware acceleration(FPGA-ARM))
- **IR Optimization with LLVM**
Teaching Assistant, Samsung Electronics DS Division, April 22, 2022
Teaching Assistant, Samsung Electronics DS Division, December 2, 2022
(Teaching how to write LLVM passes for program analysis and optimization)

PUBLICATIONS

REFEREED JOURNAL PUBLICATIONS

- [1] Bongjun Kim, Seonyeong Heo, Jaeho Lee, Shinnung Jeong, Yongwoo Lee, and Hanjun Kim, "Compiler-assisted Semantic-aware Encryption for Efficient and Secure Serverless Computing," in *IEEE Internet of Things Journal*, April 2021.
IF=9.936, Q1 (JCR 2019)

REFEREED CONFERENCE PUBLICATIONS

- [2] Jaeho Lee, Shinnung Jeong, Seungbin Song, Kunwoo Kim, Heelim Choi, Youngsok Kim, and Hanjun Kim, “Occamy: Memory-efficient GPU Compiler for DNN Inference,” in *Proceedings of the 60th Annual Design Automation Conference 2023 (DAC)*, July 2023.
- [3] Shinnung Jeong, Yongwoo Lee, Jaeho Lee, Heelim Choi, Seungbin Song, Jinho Lee, Youngsok Kim, and Hanjun Kim, “Decoupling Schedule, Topology Layout, and Algorithm to Easily Enlarge the Tuning Space of GPU Graph Processing,” in *31st International Conference on Parallel Architectures and Compilation Techniques (PACT)*, October 2022.

REFEREED POSTER PUBLICATIONS

- [4] Dongkwan Kim, Yongwoo Lee, Seonyoung Cheon, Heelim Choi, Jaeho Lee, Dongyoon Lee, and Hanjun Kim, “Privacy Authority-Aware Compiler for Homomorphic Encryption on Edge-Cloud,” in *32nd USENIX Security Symposium - (Poster) (USENIX Security)*, August 2023.

PATENTS

- [5] Hanjun Kim, Bongjun Kim, Jaeho Lee, Seonyeong Heo, Shinnung Jeong, and Yongwoo Lee, “IoT Service Providing Method Based on Adaptive Encryption and IoT Apparatus,” KR Patent Number 10-2508448-0000, March 2024.