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MinGyu Park

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EDUCATION

Georgia Institute of Technology

M.S., Ph.D in Electrical and Computer Engineering
Advisor : Dr. Sung Kyu Lim

Atlanta, GA, USA

Aug. 2023 - Present

Seoul National University

B.S. in Electrical and Computer Engineering (CGPA: 3.95/4.0)

Seoul, Korea

Mar. 2018 - Aug. 2023

RESEARCH EXPERIENCES

Research Interests: 3D integration(monolithic, hybrid bonding, and micro bumping), EDA flow with ML, RL, and Graph Algorithm

Graduate Research Assistant at GTCAD Lab, Seoul National University

- Advisor: Prof. Sung Kyu Lim
- **Project name:** 3D IC Circuit/Architecture Co-design
 - Description

Aug. 2023 - Present

Research Student at SOR Lab, Seoul National University

- Advisor: Prof. Yun-Heung Paek
- **Bachelor's Thesis:** "Hardware Logic-aware Design Space Exploration for DNN Accelerators"
 - Developed a reconfigurable accelerator on FPGA that can support any spatial/temporal unrolling.
 - Analyzed DSE frameworks and proposed a method that can achieve design automation with optimized hardware cost.

Jun. 2022 - Feb. 2023

Research Student at VLSI Lab, Seoul National University

- Advisor: Prof. Jae-Joon Kim
 - Applied the current CNN binarization method on GNN and demonstrated incompatibility.
 - Suggested solutions to overcome the limited activation distribution and oversmoothing issue.

Feb. 2022 - Oct. 2022

TEACHING EXPERIENCES

Undergraduate Student Tutor / Computer Organization, Seoul National University

Spring 2023

Undergraduate Student Tutor / Digital Logic Design and Lab, Seoul National University

Fall 2022

Lab Session Lecturer / Programming Methodology, Seoul National University

Summer 2022

PROFICIENCY IN SKILLS

Programming Languages

C, C++, Python

EDA Tools

Cadence Innovus, Cadence Virtuoso, Spectre, Calibre, ModelSim

Framework Library

PyTorch, PyG

Hardware Description Languages

Verilog, Chisel

Languages

Korean (Native), English (Proficient)

SELECTED COURSEWORK

Course in Georgia Institute of Technology

- Generative and Geometric Deep Learning
- Advanced VLSI Systems

Fall 2023

Fall 2023

Course in Seoul National University

- Digital Systems Design and Experiments
- Topics in Integrated Circuit Design (In-Memory Computing, audit)
- Topics in System Software
- Graph Convolution Network (Topics in Control and Automation)
- Machine Learning Fundamentals and Applications in Electrical and Computer Engineering

Fall 2022

Fall 2022

Fall 2022

Spring 2022

Spring 2022

SCHOLARSHIPS

The Presidential Science Scholarship, Korea Student Aid Foundation

Spring 2020 - Spring 2023

Scholarship for top students in science and technology with exceptional creativity and strong potential.

Full tuition and stipend support; 140 students are competitively selected nationwide.

Alumni Association Scholarship, Kwanak Corporation

Spring 2019

Merit-Based Scholarship (60%), Seoul National University

Fall 2018