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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

Aug. 2023 - Present

- Advisor: Prof. Sung Kyu Lim
- **Project name**
 - Description

Research Student at SOR Lab, Seoul National University

Jun. 2022 - Feb. 2023

- 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.

Research Student at VLSI Lab, Seoul National University

Feb. 2022 - Oct. 2022

- 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.

PUBLICATION

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

WORK EXPERIENCES

PROFICIENCY IN SKILLS

Programming Languages	C, C++, Python
EDA Tools	Virtuoso, Spectre, Calibre, ModelSim
Framework Library	PyTorch, PyG
Hardware Description Languages	Verilog, Chisel
Languages	Korean (Native), English (Proficient)

SELECTED COURSEWORK

Advanced VLSI Systems
Advanced Programming Techniques

SCHOLARSHIPS

The Presidential Science Scholarship , Korea Student Aid Foundation	<i>Spring 2020 - Spring 2023</i>
<i>Scholarship for top students in science and technology with exceptional creativity and strong potential.</i>	
<i>Full tuition and stipend support; 140 students are competitively selected nationwide.</i>	
Alumni Association Scholarship , Kwanak Corporation	<i>Spring 2019</i>
Merit-Based Scholarship (60%) , Seoul National University	<i>Fall 2018</i>