

Yubin Lee

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Research Interests

- Robotics Acceleration
- Acceleration of Workloads on Edge Devices

Education

KAIST(Korea Advanced Institute of Science and Technology)

PH.D. IN ELECTRICAL ENGINEERING

- Advisor: Jongse Park

Daejeon, S.Korea

Mar. 2026 - Current

KAIST(Korea Advanced Institute of Science and Technology)

M.S. IN ELECTRICAL ENGINEERING

- Advisor: Jongse Park

Daejeon, S.Korea

Mar. 2024 - Feb. 2026

KAIST(Korea Advanced Institute of Science and Technology)

B.S. IN COMPUTER SCIENCE & MINOR IN ELECTRICAL ENGINEERING

- Cum Laude (3.83/4.3)
- Dean's List, Fall 2020
- Dean's List, Fall 2019

Daejeon, S.Korea

Sep. 2019 - Feb. 2024

Experiences

CASYS Lab, KAIST

UNDERGRADUATE STUDENT INTERN

Daejeon, S.Korea

Dec 2022 - Feb 2024

CASYS Lab, KAIST

UNDERGRADUATE STUDENT INTERN

Daejeon, S.Korea

Dec 2021 - Feb 2022

Honors & Awards

Feb 12, 2025	Gold Prize , Samsung Humantech Paper Awards, Computer Science & Engineering Section	
Jul 2024 - Jun 2025	Research Encouragement Grant for Master's Students , National Research Foundation of Korea	
Jul 2024	Distinguished Artifact Award , ACM SIGARCH - IEEE CS TCCA	<i>ISCA 2024</i>
Mar 2022 - Aug 2023	National Science & Technology Scholarship , Ministry of Science and ICT	
Feb 16, 2021	Dean's List , KAIST College of Engineering	<i>Fall 2020</i>
Mar 19, 2020	Dean's List , KAIST School of Freshman	<i>Fall 2019</i>
Jun 27, 2019	Principal's Award , Lebanon Evangelical School for Boys and Girls	
Jun 2017	Outstanding Pearson Learner Award , International GCSE Highest Mark in Lebanon: Physics, Chemistry, Biology, History	

Publications

Accelerator Polymorphism: Transcending Domain-Specific Architectures with Robotics

HANYANG XU, SEONGRYONG OH, **YUBIN LEE**, ASHWIN ROHIT ALAGIRI RAJAN, ROHAN MAHAPATRA, OM PATIL, YUCHUAN LI, JONGSE PARK, HADI ESMAEILZADEH

ISCA 2026

Pimba: A Processing-in-Memory Acceleration for Post-Transformer Large Language Model Serving

WONUNG KIM, **YUBIN LEE**, YOONSUNG KIM, JINWOO HWANG, SEONGRYONG OH, JIYONG JUNG, AZIZ HUSEYNOV, WOONG GYU PARK, CHANG HYUN PARK, DIVYA MAHAJAN, JONGSE PARK

MICRO 2025

Teaching Experiences

EE.20001 Circuit Theory

TEACHING ASSISTANT

[Bongjin Kim](#)

Spring 2026

EE.20009 Programming Structures for Electrical Engineering

TEACHING ASSISTANT

[Jaemin Yoo](#)

Spring 2025

CS230 System Programming

TEACHING ASSISTANT

[Jongse Park](#)

Fall 2024

CS311 Computer Organization

TEACHING ASSISTANT

[Jongse Park](#)

Spring 2024

CS101 Introduction to Programming

FRESHMAN TUTOR

Fall 2022

CS101 Introduction to Programming

FRESHMAN TUTOR

Spring 2022

CS101 Introduction to Programming

FRESHMAN TUTOR

Fall 2021

CS101 Introduction to Programming

FRESHMAN TUTOR

Spring 2021

CS101 Introduction to Programming

FRESHMAN TUTOR

Fall 2020