

# Hyunsoo Kim

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## EDUCATION

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### Seoul National University

Ph.D. Student in Computer Science and Engineering  
Advisor: Youngki Lee

Seoul, Republic of Korea

March 2023 - Present

### Seoul National University

B.S. Student in Computer Science and Engineering

Seoul, Republic of Korea

September 2018 - February 2023

## RESEARCH INTEREST

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My research focuses on enhancing Mixed Reality and spatial computing systems. My ultimate dream is to develop a system that seamlessly integrates virtual and physical worlds. Currently, I am involved in two main projects: the first is creating models that simulate realistic multi-modal interactions between virtual and physical objects by incorporating physical properties like friction and mass into virtual settings. The second project aims to improve low-intensity communication within mixed reality, allowing users to merge their spaces with others' while preserving crucial interaction details.

## PUBLICATIONS

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### Maestro: The Analysis-Simulation Integrated Framework for Mixed Reality

Jingyu Lee, *Hyunsoo Kim*, Minjae Kim, Byung-Gon Chun and Youngki Lee

ACM International Conference on Mobile Systems, Applications, and Services 2024 (MobiSys'24)

## GRANTS, AWARDS AND SERVICES

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**Outstanding Teaching Assistant Award in the Applied Science Mentorship Program** Mar. 2024  
Seoul National University

**Student Volunteer** Oct. 2023  
Ubicomp'23 Cancun, Mexico

**Blue Lighthouse Donation Scholarship** Nov 2022  
Huawei Korea (\$1880)

**Talent Cultivation Scholarship** Mar. 2020 - Aug. 2022  
Hyunsong Educational & Cultural Foundation (\$18000)

**Development Fund Common Property Scholarship** Oct 2020  
Boeing Korea (\$2200)

## SKILLS

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**Programming Languages:** C++, Python, Java, C, JavaScript, TypeScript

**Frameworks:** TensorFlow & TensorFlow Lite, Unreal Engine, Unity

**Languages:** English (fluent), Korean (fluent), French (competent), Arabic (familiar)

## WORK EXPERIENCES

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### HCS Lab

Researcher Intern

Seoul, Republic of Korea

March 2022 - Feb 2023

### SAP Labs Korea

Software Development Intern

Seoul, Republic of Korea

Jul 2020 - Aug 2020

## TEACHING EXPERIENCES

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<b>SNU &amp; Samsung Data Science Course: Machine Learning</b>	Apr. 2024
Lead TA	
<b>SNU &amp; LG Data Science Course: Machine Learning</b>	Feb. 2024
<b>Software Development Principles and Practices</b>	Seoul National University

Lead TA: managed 6 TAs, 100 students Fall Semester 2023