

Changsung Lim

Daejeon, Republic of Korea | cslim at kaist.ac.kr | www.cslim.xyz

EDUCATION

KAIST (Korea Advanced Institute of Science and Technology)

M.S. in Computer Science

Human-Computer Interaction Lab (HCIL), Advisor: Geehyuk Lee

(*Military Service: Sep 2022 - Mar 2024)

Daejeon, Republic of Korea

Expected Feb 2026

Chung-Ang University

B.S. in Computer Science and Engineering

Summa Cum Laude (GPA: 4.39/4.50)

Undergraduate Researcher @ Networked Systems Lab (NSL), Advisor: Jeongyeup Paek
- Indoor Localization, Time-Sensitive Networking (TSN)

Seoul, Republic of Korea

Mar 2018 - Feb 2022

Dec 2019 - Dec 2021

SELECTED PUBLICATIONS (c: conferences, d: demos, p: posters)

Note about venues: **CHI** (ACM Conference on Human Factors in Computing Systems) and **UIST** (ACM Symposium on User Interface Software and Technology) are recognized as top-tier HCI (Human-Computer Interaction) conferences.

[d.2] **Changsung Lim**, Yohan Yun, Geehyuk Lee. “**Demonstrating TwinSpin: A Virtual Ball in a VR Controller Enabling In-Hand 3DoF Rotation**” (UIST ‘25 Demos, People’s Choice Demo Honorable Mention Award)

[c.2] **Changsung Lim**, Taejun Kim, Geehyuk Lee. “**TwinSpin: A Virtual Ball in a VR Controller Enabling In-Hand 3DoF Rotation**” (UIST ‘25 Papers - acceptance rate: 22.2%, Honorable Mention Award)

[p.2] Sunbum Kim, Kyunghwan Kim, **Changsung Lim**, Geehyuk Lee. “**Ball20: An In-Hand Near-Spherical 20-Sided Tangible Controller for Diverse Gesture Interaction in AR/VR**” (CHI ‘25 LBW)

[d.1] **Changsung Lim**, Sangyoon Lee, Geehyuk Lee. “**DualPad: Exploring Non-Dominant Hand Interaction on Dual-Screen Laptop Touchpads**” (UIST ‘24 Demos)

[p.1] **Changsung Lim***, Jina Kim*, Myung Jin Kim*. “**Thumble: One-Handed 3D Object Manipulation Using a Thimble-Shaped Wearable Device in Virtual Reality**” (UIST ‘22 Posters)

[c.1] **Changsung Lim**, Jeongyeup Paek. “**Cost reduction in fingerprint-based indoor localization using generative adversarial network**” (2021 International Conference on Information and Communication Technology Convergence (ICTC))

AWARDS & HONORS

- ACM UIST 2025 People’s Choice Demo Honorable Mention Award Oct 2025
- ACM UIST 2025 Honorable Mention Award Sep 2025
- ICT Challenge 2025, Minister of Science and ICT Award (Republic of Korea) (1st out of 206 teams) Aug 2025
 - **Project:** MidasRing (Always-available touchpad interaction with a wearable ring by friction sensing)
- Outstanding Project Award, Student Creative Research Project 2024 - SpaceTop Research Center (ITRC) Jan 2025
 - **Project:** Bodidget: An Exploratory Study of On-Body Widgets Placements for Extended Reality (XR)
- Dean’s List for five semesters, Chung-Ang University Fall 2018, Spring/Fall 2019, Spring 2020, Fall 2021

SCHOLARSHIPS & FUNDINGS

- Government Scholarship Graduate Student, KAIST Mar 2022 - Feb 2026
- Student Creative Research Project Funding, SpaceTop Research Center (ITRC) 2024
- Full 4-year Scholarship Undergraduate Student, Chung-Ang University Mar 2018 - Feb 2022
- Merit-based Scholarship, Chung-Ang University Fall 2018, Spring/Fall 2019, Spring 2020, Fall 2021
- Merit-based Scholarship, Chungcheongnam-do 2019

PATENTS

[1] Geehyuk Lee, **Changsung Lim**, “XR Input Device Enabling Finger-based Rotational Input”, Patent App. EP25211321.2 (EP), 2025-182027 (JP), 10-2025-0134247 (KR), 19/371,205 (US), Korea Advanced Institute of Science and Technology, 2025.

SERVICES

- CHI 2026 Paper Reviewer Oct 2025
- SIGCHI Korea Local Chapter Jun 2025
 - Student Volunteer
- Republic of Korea Army Sep 2022 - Mar 2024
 - Military Service, Sergeant (Honorable Discharge)

TEACHING

- CS206 Data Structure, KAIST (Teaching Assistant) Spring 2025
- CS206 Data Structure, KAIST (Teaching Assistant) Fall 2024

ADDITIONAL

Technical Skills:

- **Application Development:** Unity (C#, Meta Quest, HTC VIVE), iOS/macOS (Swift, SwiftUI)
- **Embedded Programming:** Arduino, ESP32, Raspberry Pi, nRF52840 (C/C++, Segger Embedded Studio, J-Scope)
- **Rapid Prototyping:** 3D Modeling (Fusion 360) & Printing, Soldering
- **Signal Processing & Machine Learning:** Signal Filtering, Sensor Fusion, Real-time Sensor Data Processing (Python)

Selected Coursework:

Undergraduate:

- Artificial Intelligence, Machine Learning, Signals and Systems, Digital Signal Processing
- Logic Circuit, Computer Architecture, Computer Systems and Assembly Language, Operating Systems, Design of Embedded System, Linux System and Its Applications, Microcomputer Systems
- Computer Communication, Network Applications and Design, Wireless and Mobile Communication
- Discrete Mathematics, Linear Algebra, Probability and Statistics, Numerical Analysis
- Data Structure, Algorithm

Graduate (M.S.):

- Human-Computer Interaction, Wearable Interface, Qualitative Design Research Methodology
- Artificial Intelligence and Machine Learning, IoT Data Science