Yeeun Shin

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RESEARCH INTERESTS	Human-Computer Interaction (HCI), Extended Reality (XR), Tangible Interface, Creati My research explores tangible and multimodal XR interfaces that harness embodied cognition human creativity. I investigate interaction techniques for adaptive XR+AI systems that transform	on to amplify	
	movement into expressive and participatory workflows.		
EDUCATION	8 ()	1 – Jun 2023 aejeon, Korea	
	3, \ ,	– Feb. 2021 Pohang, Korea	
		9 - Jan. 2020 banne, France	
PUBLICATIONS	Peer-reviewed publications in top-tier venues for HCI and interactive techniques. (* equal contribution) [5] Desk Console: Augmenting 3D Virtual Controls on Physical Desks for Immersive Authoring Yeeun Shin, Seung Hyeon Han, Woohun Lee In ACM CHI Conference on Human Factors in Computing Systems (CHI EA'25)		
	 Student Game Competition Finalist [4] Spatial Chef: A Spatial Transforming VR Game with Full Body Interaction Yeeun Shin*, Yewon Lee*, Sungbaek Kim*, Soomin Park* In ACM CHI Conference on Human Factors in Computing Systems (CHI EA'23) 		
	 ➡ Best in Show Honorable Mention [3] WonderScope: Practical Near-surface AR Device for Museum Exhibits HyeonBeom Yi, Yeeun Shin, Sehee Lee, Eunhye Youn, Auejin Ham, Geehyuk Lee, Wood In ACM SIGGRAPH 2022 Emerging Technologies 	oohun Lee	
	[2] ProjecString: Turning an Everyday String Curtain Into an Interactive Projection Displation Wooje Chang*, Yeeun Shin* , Yeon Soo Kim*, Woohun Lee In <i>ACM SIGGRAPH 2022 Posters</i>	у	
	[1] ChromoFilament: Designing a Thermochromic Filament for Displaying Malleable Star Donghyeon Ko, Yeeun Shin , Junbeom Shin, Jiwoo Hong, Woohun Lee In <i>ACM Designing Interactive Systems Conference (DIS '22)</i>	tes	
AWARDS & HONORS	 Student Game Competition Finalist ACM CHI Emerging Technologies Best in Show Honorable Mention (Top 3) ACM SIGGRAPH 		
	 iF Design Award – user experience (UX) 1st Place, AI Idea Competition LG CNS 	2023 2018	

■ Highest Academic Achievement Scholarship | POSTECH

■ Academic Excellence Scholarship | POSTECH

■ National Merit Scholarship for Science and Engineering | Korea Student Aid Foundation

2018

2018

2018

RESEARCH EXPERIENCE

Research Assistant | WonderLab, KAIST

Advised by Prof. Woohun Lee

Mar. 2021 – Aug 2023 Daejeon, Korea

■ Tangible XR Interfaces to Support Embodied Creativity

Designed tangible authoring interface augmenting virtual panels as spatial controls on physical desks; identified workflow gaps via contextual inquiry and evaluated user behaviors; demoed at CHI '25 [5].

Interactive Materials for Creative Fabrication

Developed thermochromic filament that visualizes malleable states to support creative decisions during fabrication; derived color mappings in design workshops and evaluated effects in user studies [1].

■ Multi-Modal Interaction in XR Systems

- Multi-Sensory AR Devices for Public Engagement [3]
 Designed multimodal near-surface AR system responsive to user motion; deployed in museums.
- Micro-Gesture Interfaces for Vision-Based Input with KAIST HCI Lab (Prof. Geehyuk Lee)
 Led interaction definition, deriving micro-gesture heuristics and guidelines through workshops.
- Inclusive Interaction for AR Glasses with *Samsung Electronics*Defined and prototyped gesture interactions for AR glasses through Participatory Design and interviews.

PROFESSIONAL EXPERIENCE

AI Interaction Designer | Samsung Electronics

Jan. 2024 - Present

- Designed the first Gemini-integrated AI Agent for Smart TVs, driving user research and cross-functional co-development with Google Cloud; inventor on 8 AI interaction patents.
- Conducted exploratory research on human—AI interaction, prototyping web app that visualize AI reasoning and support participatory decision-making with human-like agents.

UX Intern | MXXR

Nov. 2020 – *Mar.* 2021

• Led tutorial flow design for mobile AR platform with camera-based spatial sensing.

Seoul, Korea

Seoul, Korea

Seoul, Korea

Software Engineering Intern | LG CNS Research Center

Jun. 2018 – Aug. 2018

• Built an Android smartwatch app for real-time factory task tracking, integrating Bluetooth beacons and context-specific UI for industrial IoT environments.

Interactive Prototyping Intern | Geekble

Jan. 2018 - Feb. 2018

 Developed Arduino-based interactive prototypes embedded in everyday objects to enable context-aware responses to natural user behavior.

ACADEMIC ACTIVITIES

EXHIBITION & PRESENTATION

EXHIBITION & FRESENTATION	
Presenter, CHI Interactivity Demo	Japan 2025
Presenter, CHI Student Game Competition	Germany 2023
Presenter, SIGGRAPH Emerging Technologies Demo	Canada 2022
Selected Poster Presenter, SIGGRAPH Art Papers Roundtable	Canada 2022
• Research Featured on KBS, MBC, TJB (National Broadcasting)	2022
• Research Exhibitor, Korea National Science Museum Special Exhibition	2022
Research Exhibitor, Korea National Science Museum Living Lab	2021
Research Exhibitor, Gwacheon National Science Museum	2021

SERVICE & TEACHING

Student Volunteer, TEI Conference	2022
• Teaching Assistant, Design Entrepreneurship (KAIST ID402)	2022 Fall

SKILLS Programming Unity3D (C#), JavaScript/TypeScript, Python, C, C++, Java, HTML, CSS, Git

Prototyping	Oculus SDK, XR Interaction Toolkit, Arduino, Raspberry Pi, Processing, 3D Printing,

Laser Cutting, CNC, Rhino/Grasshopper, Figma, Sketch, Adobe CC

Research (qualitative) Focus Group, Contextual Inquiry, User Study Design, Thematic analysis

(quantitative) Statistical & Data Analysis (SPSS, Python, SQL)