

# Yeeun Shin

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## RESEARCH INTERESTS

**Human-Computer Interaction (HCI), Extended Reality (XR), Tangible Interface, Creative Process**  
My research interest is exploring interaction techniques that leverage spatial cognition and motor-cognitive strategy to amplify creativity in spatial computing. I investigate how tangible and multi-modal interactions reshape engagement with digital information, enabling expressive and embodied creative workflows.

## EDUCATION

**Korea Advanced Institute of Science and Technology (KAIST)** Mar. 2021 – Jun. 2023  
M.S. in Industrial Design (Human-Computer Interaction) Daejeon, Korea

- Advisor: Prof. Woohun Lee
- Thesis: *Immersive Authoring Interface with 3D Virtual Controls on Physical Desk*
- Thesis Committee: Woohun Lee, Seok-Hyung Bae, Andrea Bianchi

**Pohang University of Science and Technology (POSTECH)** Mar. 2016 – Feb. 2021  
B.S. in Materials Science and Engineering Pohang, Korea

- Graduated *Cum Laude*

**Institut National des Sciences Appliquées de Lyon (INSA Lyon)** Aug. 2019 - Jan. 2020  
Exchange Student, Materials Science and Engineering Villeurbanne, France

## PUBLICATIONS

*Published in peer-reviewed, 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, Woohun Lee

In *ACM SIGGRAPH 2022 Emerging Technologies*

[2] ProjecString: Turning an Everyday String Curtain Into an Interactive Projection Display

Wooje Chang\*, **Yeeun Shin\***, Yeon Soo Kim\*, Woohun Lee

In *ACM SIGGRAPH 2022 Posters*

[1] ChromoFilament: Designing a Thermochromic Filament for Displaying Malleable States

Donghyeon Ko, **Yeeun Shin**, Junbeom Shin, Jiwoo Hong, Woohun Lee

In *ACM Designing Interactive Systems Conference (DIS '22)*

## AWARDS & HONORS

- **Student Game Competition Finalist** | ACM CHI 2023
- **Emerging Technologies Best in Show Honorable Mention (Top 3)** | ACM SIGGRAPH 2022
- **iF Design Award for User Experience** | iF Design 2023
- **1st Place, AI Idea Competition** | LG CNS 2018
- **National Merit Scholarship for Science and Engineering** | Korea Student Aid Foundation 2018
- **Highest Academic Achievement Scholarship** | POSTECH 2018
- **Academic Excellence Scholarship** | POSTECH 2018

RESEARCH EXPERIENCE	<b>Research Assistant</b>   WonderLab, KAIST Advisor: Prof. Woohun Lee	Mar. 2021 – Aug 2023 Daejeon, South Korea
	<ul style="list-style-type: none"> <li>▪ <b>Tangible XR Interfaces for Creative Authoring</b> Led design of a tangible VR authoring interface by identifying workflow challenges through contextual inquiry and embedding spatial desk controls to support embodied creativity; demoed at CHI [5].</li> <li>▪ <b>Interactive Materials for Creative Fabrication</b> Developed thermochromic filaments revealing malleable states to support creative decisions through improved visualization of transformations; validated through user studies [1].</li> <li>▪ <b>Embodied Interaction in XR Systems</b> <ul style="list-style-type: none"> <li>• <i>Multi-Sensory AR Devices for Public Engagement [3] – NRF-funded</i> Designed near-surface AR systems with tactile feedback, based on user research and applied in museum.</li> <li>• <i>Micro-Gesture Design for Vision-Based Devices – with KAIST HCI Lab (Prof. Geehyuk Lee)</i> Led gesture elicitation studies to define interaction heuristics for novel vision-based interfaces.</li> <li>• <i>Inclusive Interaction for AR Glasses – with Samsung Electronics</i> Designed inclusive AR scenarios and interaction via workshop and interview</li> </ul> </li> </ul>	
PROFESSIONAL EXPERIENCE	<b>AI Interaction Designer / Researcher</b>   Samsung Electronics	Jan. 2024 – Present Seoul, Korea
	<ul style="list-style-type: none"> <li>• Designed the first Gemini-integrated AI Companion for Smart TVs, leading user research and co-developing with Google Cloud and cross-functional teams.</li> <li>• Designed data-driven Smart TV interfaces using KPI analysis and user research for iterative design.</li> <li>• Conducted exploratory research on next-gen human–AI interaction, building an interactive web app prototype that visualizes AI reasoning to foster participatory decision-making.</li> </ul>	
	<b>UX Intern</b>   MXXR	Nov. 2020 – Mar. 2021 Seoul, Korea
	<ul style="list-style-type: none"> <li>• Designed interaction flows and wireframes for a spatial AR Application.</li> <li>• Executed cross-platform campaigns and content strategy to enhance user engagement.</li> </ul>	
	<b>Software Engineering Intern</b>   LG CNS Research Center	Jun. 2018 – Aug. 2018 Seoul, Korea
ACADEMIC ACTIVITIES	<b>EXHIBITION &amp; TALK</b>	
	<ul style="list-style-type: none"> <li>• Presenter, CHI Interactivity Demo</li> <li>• Presenter, CHI Student Game Competition (HCI Research)</li> <li>• Presenter, SIGGRAPH Emerging Technologies Demo</li> <li>• Selected Poster Presenter, SIGGRAPH Art Papers Roundtable</li> <li>• Research Featured on KBS, MBC, TJB (National Broadcasting)</li> <li>• Research Exhibitor, Korea National Science Museum Special Exhibition</li> <li>• Research Exhibitor, Korea National Science Museum Living Lab</li> <li>• Research Exhibitor, Gwacheon National Science Museum</li> </ul>	Japan 2025 Germany 2023 Canada 2022 Canada 2022 2022 2022 2021 2021
	<b>SERVICE &amp; TEACHING</b>	
	<ul style="list-style-type: none"> <li>• Student Volunteer, TEI Conference</li> <li>• Teaching Assistant, Design Entrepreneurship (KAIST ID402)</li> </ul>	2022 2022 Fall
SKILLS	<b>Programming</b>	Unity3D (C#), JavaScript/TypeScript, Python, C, C++, Java, HTML, CSS, Git
	<b>Prototyping</b>	Arduino, Raspberry Pi, Processing, 3D Printing, Laser Cutting, CNC, Rhino/Grasshopper, Figma, Adobe CC, Oculus Quest SDK, XR Interaction Toolkit
	<b>Research</b>	<b>(qualitative)</b> Focus Group, Contextual Inquiry, User Study Design, Thematic analysis <b>(quantitative)</b> Statistical analysis, Data analysis (SPSS, Python, SQL)