

Yunseo Chang

M.S. Student in Computer Science and Engineering
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[LinkedIn Profile](#) | [Google Scholar](#)

Research interests

My research lies broadly in Human-Computer Interaction, with a focus on Extended Reality (XR), spatial memory, and context-aware personalized interfaces. I am interested in **understanding how people perceive, remember, and interact with spatial and digital information**, and in using these insights to **build adaptive interfaces that respond to users, tasks, and environments**. In particular, I explore how VR and AR can support the reconstruction, revisiting, and organization of personal experiences, treating immersive environments not only as displays but also as interfaces for memory and cognition. More broadly, I am interested in intelligent and computational approaches that make immersive interaction **more seamless, personalized, and cognitively supportive**. My goal is to bridge user-centered design with technical implementation to create interactive systems that extend how people remember, think, and engage with digital information.

Education

Korea University

Mar 2026 - Feb 2028

M.S. in Computer Science and Engineering; expected Feb 2028

Advisor: Prof. Gerard Jounghyun Kim

Total GPA: 4.38 / 4.50 (98.6%)

Seoul, South Korea

York St. John University

Sep 2024 - Jun 2025

Exchange Student (Full Year, 2 Semesters)

York, United Kingdom

Sungshin Women's University

Mar 2022 - Feb 2026

Bachelor of Business Administration, Department of Business Administration

Bachelor of Engineering, Department of Service Design Engineering

Advisor: Prof. Hwan Kim

Total GPA: 4.09 / 4.50 (95.9%)

Seoul, South Korea

Research Experience

Graduate Research Assistant, Digital eXPerience Lab, Korea University

Mar 2026 - Present

Advisor: Prof. Gerard Jounghyun Kim

Undergraduate Research Assistant, Digital eXPerience Lab, Korea University

Jun 2025 - Feb 2026

Advisor: Prof. Gerard Jounghyun Kim

Undergraduate Research Assistant, HCI Lab, Sungshin Women's University

Mar 2024 - Aug 2024

Advisor: Prof. Hwan Kim

Publications

[International Conference Papers]

- [P.1] Quantifying Low-Level Motor Effects of Emotion: Validating Fitts' Law in Affective Contexts
Dongyun Joo, **Yunseo Chang**, JongChan Park, Kyungseo Jung, Minchae Kim, & Gerard Jounghyun Kim.
In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*. ACM.

Teaching & Outreach

Teaching Assistant, Data Structure, Korea University

Lecturer: Prof. Chaeyong Park

Sep 2026 - Dec 2026

Invited Instructor, Konyang University

Special Lecture on Document Authoring Skills for International Students

Apr 2026

Teaching Assistant, Introduction to HCI, Korea University

Lecturer: Prof. Chaeyong Park

Mar 2026 - Jun 2026

Patents

Augment Reality Glass | KR Patent 10-2024-0127068

Developed a comprehensive patent strategy for user interaction in augmented reality (AR) devices, focusing on enhancing user experience and technological innovation.

Sep 2024

Project Experience

XR Platform for Health and Social Engagement of Older Adults

2026 – Present

Graduate Research Assistant, NRF Mid-Career Research Program

- Designing and developing XR prototypes for supporting health, empathy, and social engagement among older adults.
- Designing and conducting user studies to evaluate the usability and user experience of XR interactions for older adults.

Metaverse Interaction and Usability in Autonomous Vehicles

Jun 2025 – Present

Graduate Research Assistant, IITP-Funded Research Project

- Contributing to research on metaverse platform use and user experience for passengers in autonomous vehicles.
- Investigating interaction and interface design approaches to reduce motion sickness and improve usability in in-vehicle immersive environments.

2024 Korea Campus Patent Strategy Universiade

Mar 2024 - Aug 2024

Establishment of Patent Strategy Department (IP-R&D)

- Head of Sponsoring Organization SAMSUNG ELECTRONICS Award (**3rd Place**).
- Developed a comprehensive patent strategy for user interaction in augmented reality (AR) devices.
- Hosted by the Korea Invention Promotion Association (KIPA).

Undergraduate Research Opportunity Program (UROP)

Mar 2024 - Aug 2024

Undergraduate Research Assistant under Prof. Hwan Kim

- Focused on the development of a brush-type stylus pen for multi-texture representation in digital environments.
- Aimed to enhance haptic feedback using electro-vibration technology.

LG Smart Farm Industry Product Service System Design

Mar 2024 - Jun 2024

Industry-University Linkage Project (2024 Spring Semester)

- Developed the Gruu System, a structured sub-branding concept extending the LG gram product family through three product lines: Gruub, Gruut, and Gruum.
- Designed highly detailed 3D models of smart farm spaces, enhancing concept clarity and User Experience.

Start-up Project "Crystalmine"

Mar 2024 - Aug 2024

Project Manager (PM) / Startup Company "Salty Lab"

- Selected as a startup project for the STARTUP021 Program for three consecutive years (2023–2025).
- Served as Project Manager (PM) and Service Design Team Leader (PL).
- Implemented to enhance user solidarity and security within Sungshin Women's University's Community.

Awards & Honors

Academic Awards

Academic Scholarship (2nd Place)

2024 Spring

Undergraduate Research Program (UROP) Scholarship

2024

Leadership Excellence Scholarship, University Mentoring Program

2024

Academic Improvement Scholarship

2023 Fall

Academic Improvement Scholarship

2023 Spring

Study Abroad Program Scholarship, University of Auckland, New Zealand

2023

Academic Scholarship (1st Place)

2022 Fall

Academic Improvement Scholarship

2022 Spring

Extra-Curricular Activities

University of Auckland, New Zealand

Short-term Language(English) Study Program

Jan 2024 - Feb 2024

Education Volunteering Club / Traveling Teachers Seoul

Education Volunteer at Hwasun High School

Mar 2022 - Feb 2024

Skills

English Proficiency

TOEIC 925

TOEFL 88

Jun 2025

Feb 2024