HYEWON LEE

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EDUCATION

Korea Advanced Institute of Science and Technology, *Daejeon, Korea*   2020 - **Present**
- B.S. in Computer Science and Industrial Design (GPA: 4.07/4.3)

New York University, *New York, NY*   Spring 2024
- KAIST–NYU Minor in Integrated Design & Media (GPA: 4.0/4.0)

PUBLICATIONS

CONFERENCE PAPERS

[C1] **VIVID: Human-AI Collaborative Authoring of Vicarious Dialogues from Lecture Videos**
Seulgi Choi, **Hyewon Lee**, Yoonjoo Lee, Juho Kim
ACM CHI 2024

POSTERS AND DEMOS

[P1] **RADI: A Design Framework for Relational and Adaptive Disclosure Interfaces**
Hyewon Lee*, Ihchae Ryu*, Yumin Cho*, Hyunseung Lim, Hwajung Hong
ACM UIST Adjunct 2025

[P2] **CamARa: Exploring and Creating Camera Movements with Spatial Reference in Augmented Reality**
Hyewon Lee, Christopher Bannon, Andrea Bianchi
ACM CHI Extended Abstracts 2025

PREPRINTS AND ARCHIVES

[A1] **An Augmented Reality Camera Layout System for Intuitive, Spatially Aware Shot Design**
Hyewon Lee, Jee Youn Kim, Christopher Bannon, Andrea Bianchi
Preprint 2025

RESEARCH EXPERIENCE

KIXLAB, KAIST Daejeon, Korea   Fall 2023; Jul 2025 – **Present**
Research intern
- Advisor: **Prof. Juho Kim**
- Researched human–AI co-authoring of pedagogical dialogues for instructor support [C1].
- Exploring synchronous co-design interactions with in-tool generative agents [ongoing].

Graduation Research, KAIST Daejeon, Korea   Mar 2025 – **Present**
Undergraduate researcher
- Advisor: **Prof. Tak Yeon Lee**
- Investigating human–AI collaborative vector editing workflows for Korean lettering through designer-centered sensemaking artifacts [ongoing].

MakeLab, KAIST Daejeon, Korea   Aug 2024 – Jun 2025
Research intern
- Advisor: **Prof. Andrea Bianchi**
- Developed an AR-based camera tool bridging 3D scenes and real environments to support expressive cinematography [P2] [A1].

WORK EXPERIENCE	**SketchSoft** Seoul, Korea	Jul 2022 – Dec 2022

SketchSoft Seoul, Korea   Jul 2022 – Dec 2022
Software engineer intern

· Developed a 3D sketching tool Feather (Three.js) and implemented GLTF curve transformation reducing file size by 87%.
· Proposed and designed a movie export interaction allowing users to record and share 3D sketches, extending the tool's expressive capabilities.

SPARCS, KAIST Daejeon, Korea   Mar 2021 – Dec 2024
Software engineer & UX designer

· Designed and implemented *Biseo*, an internal web service supporting voting and decisions for KAIST Programmers Association, later adopted by two additional campus groups.
· Improved UX as a design lead by resolving key usability issues and introducing an atomic design system for scalable front-end development.

AWARDS & HONORS

Next-Generation Engineer Award,
Institute for Promotion of Engineering and Science of Korea, IPESK   2025
· Recognized as an outstanding student for excellence in research.

Undergraduate Research Program, KAIST   2024
· Selected for Undergraduate Research Program (URP); $5,000 research grant.

College of Engineering Dean's List, KAIST   2022
· Achieved a perfect GPA of 4.3/4.3 (2nd in department); $800 scholarship.

Lim Misuk Scholarship, KAIST   2022
· Recognized for leadership and societal contribution; $1,000 scholarship.

Presidential Science Scholarship, Ministry of Science and ICT, Republic of Korea   2020
· Awarded by the President of Korea to outstanding science and engineering students.
· Covered full tuition (4 years) and $20,000 scholarship.

TEACHING & MENTORING

Research Mentor, AFE   2025 - **Present**
· Mentored high school students on research projects in computer science.

Undergraduate Tutor, KAIST   2022 - 2023
· Taught data structures and algorithms; nominated as Best Tutor (2023).

Teaching Assistant, KAIST   2021
· Taught CS101: Introduction to Programming (Python) lab sessions.

SERVICES & LEADERSHIP

Student Volunteer, ACM SIGCHI Korea Local Chapter   2025

Taekwondo Club Organizer, KAIST   2024 - 2025

International Student Buddy, KAIST   2024

Department President, School of Computing, KAIST   2022

Cohort Representative, School of Computing, KAIST   2021