Minju Yoo

Master's Student in the School of Computing, KAIST
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RESEARCH INTERESTS

I design and study conversational AI systems that support learners' reasoning, reflection, and agency, as well as teachers' pedagogical decisions. My research draws on Human–Computer Interaction and Learning Sciences, with an emphasis on learners' critical engagement with AI.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Master's Student in the School of Computing (GPA: 4.06/4.3) — Sep 2025 – Aug 2027 (expected)
Co-advised by Prof. Joseph Seering and Prof. Juho Kim

Ewha Womans University — Seoul, South Korea
B.A. in Educational Technology and B.S. in Software (GPA: 4.13/4.3, *Summa Cum Laude*) — Mar 2019 – Aug 2025
Secondary School Regular Teacher Certificate (Grade II) in Education

PUBLICATIONS

Conference Papers

[C2] **RelianceScope: An Analytical Framework for Examining Students' Reliance on Generative AI Chatbots in Problem Solving**
Hyoungwook Jin, **Minju Yoo**, Jieun Han, Zixin Chen, So-Yeon Ahn, and Xu Wang
Proceedings of the 13th ACM Conference on Learning @ Scale (L@S 2026). **Best Paper Award**. [DOI]

[C1] **TeachTune: Reviewing Pedagogical Agents Against Diverse Student Profiles with Simulated Students**
Hyoungwook Jin, **Minju Yoo**, Jeongeon Park, Yokyung Lee, Xu Wang, and Juho Kim
Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI 2025). [DOI]

Posters and Workshop Papers

[P5] **Toward Critical AI Literacy: Embedded Assessment of Students' Critical Engagement with LLM Responses**
Minju Yoo* and Junghee Hwang* (* equal contribution)
ALIT4ALL: 2nd International Workshop on AI Literacy Education For All (AIED 2026). *Workshop poster.* [PDF]

[P4] **Supporting Design Reasoning in AI-assisted Interface Prototyping for HCI Research**
Eunhye Kim*, **Minju Yoo***, Jenny C. Yang, and Daeun Choi (* equal contribution)
Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA 2026). *Poster.* [DOI]

[P3] **Conversational AI Meets Mindfulness: Exploring LLMs as a Socio-Emotional Layer in a Math Intelligent Tutoring System**
Vera Rief, Mirella Hladký, **Minju Yoo**, Stephanie Heel, Shintaro Sato, and Tomohiro Nagashima
Proceedings of the 21st European Conference on Technology Enhanced Learning (EC-TEL 2026). *Poster.* [DOI]

[P2] **How Do Teachers Create Pedagogical Chatbots?: Current Practices and Challenges**
Minju Yoo, Hyoungwook Jin, and Juho Kim
CHI 2025 Workshop on Augmented Educators and AI. *Workshop paper.* [arXiv]

[P1] **Beyond Tools: Understanding How Heavy Users Integrate LLMs into Everyday Tasks and Decision-Making**
Eunhye Kim, Kiroong Choe, **Minju Yoo**, Sadat Shams Chowdhury, and Jinwook Seo
CHI 2025 Workshop on Tools for Thought. *Workshop paper.* [arXiv]

Manuscripts in Preparation

[M1] **coRead: Linked Reasoning Steps to Guide Critical Reading Discussions**
Minju Yoo, Enrique Jose Delgado Garcia, Hyoungwook Jin, Juho Kim, and Joseph Seering
In preparation.

RESEARCH EXPERIENCE

Graduate Researcher, CSTL and KIXLAB, KAIST [M1] — Daejeon, South Korea
Advisors: Prof. Joseph Seering and Prof. Juho Kim — Sep 2025 – Present

- Lead coRead [M1], a system in which two LLM peer agents guide critical reading discussions of research papers by tracking learners' progress through linked reasoning steps and adapting their support.
- Designed and ran a between-subjects study with 36 learners comparing open-ended and pattern-guided LLM discussions.

Undergraduate Research Intern, LaLaLab, Saarland University [P3] Remote
Advisors: Prof. Tomohiro Nagashima and Dr. Mirella Hladký Jul 2025 – Aug 2025

- Co-developed a framework that maps mindfulness principles to hint messages, used to scale up the authoring of mindful hints across an intelligent tutoring system (ITS) for algebra.
- Systematically tested prompts for integrating large language models (LLMs) into the ITS.

Undergraduate Research Intern, KIXLAB, KAIST [C1], [P2] Daejeon, South Korea
Advisor: Prof. Juho Kim; mentored by Hyoungwook Jin Jul 2024 – Jun 2025

- Refined and systematically tested the LLM pipeline behind TeachTune's simulated students [C1] so that their behavior reflects prescribed knowledge levels and traits.
- Ran the technical evaluation with 10 K-12 teachers and the between-subjects user study with 36 teachers: prepared study materials and tutorials, conducted sessions, and analyzed the results.
- Interviewed seven K-12 teachers about how they create pedagogical chatbots and where they struggle [P2].

HONORS, AWARDS, AND SCHOLARSHIPS

Best Paper Award, ACM Conference on Learning @ Scale (L@S 2026) [C2] 2026
KAIST Merit-based Government Scholarship, Full tuition for two years 2025 – 2026
Dean's List, College of Education, Ewha Womans University 2024, 2022, 2021, 2020, 2019
Ewha Academic Excellence Scholarship, Full tuition Fall 2023 and Fall 2019
Ewha Volunteer Scholarship, dormitory council leadership Spring 2021 and Spring 2020

ACADEMIC SERVICES

Reviewer, CHI 2027 and CHI 2026 (Papers)

General Chair Assistant, Festival of Learning 2026

- Coordinated conference planning and on-site delivery with chairs and organizers across three conferences.
- Supported accessibility captioning and student volunteer coordination to improve the attendee experience.

TEACHING AND MENTORING

Human-Computer Interaction Spring 2026
Teaching Assistant, KAIST; Instructor: Prof. Joseph Seering. Graduate-level course (20 students)

Learning and Instructional Design (LID) Projects Aug 2022 – Jul 2023
LID Lead, ET LAB, Ewha Womans University. Mentored five teams of four students

High School Ethics Spring 2022
Trainee Teacher, Pohang Jecheol High School (Teaching Practicum). Taught three classes (about 75 students)

Introductory Creative Convergence Basic Design Spring 2021
Course Mentor, Ewha Womans University; Instructor: Prof. Hyunseok Park. Mentored two teams of five students

Learning-Instructional Theory Fall 2020
Course Mentor, Ewha Womans University; Instructor: Prof. Jeongmin Lee. Mentored one team of three students

EXTRACURRICULAR EXPERIENCE

Korean Tutor, Delicious Korean: one-to-one tutoring for 15 international students May 2023 – Present
HRD Consulting Research Assistant, L-curve: content design and workshop facilitation Jun 2023 – Jan 2024

SKILLS

Programming: Python, JavaScript, TypeScript
Research Methods: User Interviews, Qualitative Coding, Survey Design, Experimental Design, Prototyping
Tools & Technologies: Figma, Next.js, Git
Languages: Korean (Native), English (Fluent; TOEFL iBT 5.5/6.0)