Hyehyun Chu

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Research interest

I am fundamentally interested in helping people become proficient with technology. To achieve this, I believe that accessibility and learning in technology are crucial. Therefore, I aim to research in the fields of **Accessibility**, **Human-AI interaction**, and **Computer-Supported Collaborative Learning**.

Education

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Sep 2026 – Present

- PhD in Computer Science (Specialization: Human-Computer Interaction)
- Advisor: Juho Kim

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Sep 2024 – Aug 2026

- MSc in Computer Science
- Advisor: Juho Kim

Seoul National University — Seoul, South Korea
Mar 2019 – Aug 2024

- BS in College of Liberal Studies (Computer Science and Engineering, Information Science and Culture)
- GPA: 3.8/4.3 (Cum Laude)

Experience

Research Intern, KAIST KIXLAB — Daejeon, South Korea
Jul 2024 - Aug 2024

- Advisor: Prof. Juho Kim
- Participated in the development and design of a project for automative UI generation based on user's LLM usage

Research Intern, Seoul National University HCI+D Lab — Seoul, South Korea
Feb 2024 - Jun 2024

- Advisor: Prof. Hajin Lim, Prof. Joonhwan Lee
- Actively involved in the development and design of a project website for a research study on generating digital doppelgänger by LLM, which is a collaboration with CMU

Software Developer Intern, Samsung Electronics — Suwon, South Korea
Jul 2023 - Aug 2023

- Developed a internal service that increased productivity of company employees
- Planned new UX/UI based on the incoming POV and design an efficient API communication structure

Project Manager, AIMED — Seoul, South Korea
Jun 2021 - Dec 2021

- Collaborated with the developers to ensure tasks were completed on time and met quality standards
- Analyzed project data and created reports to present to senior management, resulting in improved decision-making

Publications

Full Papers

I Can't Keep Up: Accessibility Barriers in Video-Based Learning for Individuals with Borderline Intellectual Functioning

Hyehyun Chu, Seungju Kim, Chen Zhou, Yu-Kai Hung, Saelyne Yang, Hyun W. Ka, and Juho Kim

CHI 2026

NoRe: Augmenting Journaling Experience with Generative AI for Music Creation

Joonyoung Park*, Hyewon Cho*, **Hyehyun Chu***, Yeeun Lee, and Hajin Lim

DIS 2025

EmoBridge: Bridging the Communication Gap between Students with Disabilities and Peer Note-Takers Utilizing Emojis and Real-Time Sharing

Hyungwoo Song*, Minjeong Shin*, **Hyehyun Chu***, Jiin Hong*, Jaechan Lee, Jinsu Eun, and Hajin Lim

ASSETS 2024

Posters & Workshops

When AI "Works," When Does Help Begin?: Intergenerational Support Around Older Adults' LLM Usage

Hyehyun Chu, Yuri Lee, Yeon Su Park, Saelyne Yang, Juho Kim

CSCW 2026 Workshop — "Growing Up (and Old) with AI: Co-Constructing the Future for Family-Centered AI"

Visual Embedding of Screen Sequences for User-Flow Search in Example-driven Communication

Daeheon Jeong*, **Hyehyun Chu***

CHI 2025 Extended Abstracts (Late-Breaking Work)

NoRe: Augmenting Journaling Experience with Generative AI for Music Creation

Joonyoung Park*, Yeeun Lee*, Hyewon Cho*, **Hyehyun Chu***, Jiin Cheon*, Jinsu Eun, and Hajin Lim

HCI Korea 2025

EmoBridge: Design of a Collaborative Note-taking System to Improve Communication between Students with Disabilities and Peer Notetaker

Hyungwoo Song*, Minjeong Shin*, **Hyehyun Chu***, Jiin Hong*, Jaechan Lee, Jinsu Eun, and Hajin Lim

HCI Korea 2024

* indicates equal contribution

Talks

Does AI help students learn better? Generative AI and cognitive diversity in the classroom — Nov 2026

- Invited speaker, 2026 Fall Conference of the Korean Academy of Child and Adolescent Psychiatry (KACAP)

Current status and future challenges in developing AI-based tic screening algorithms — Jun 2026

- Invited speaker, Symposium: Multidisciplinary Collaboration Strategies for Developing Digital Therapeutics for Tic Disorders
- 2026 Spring Conference of the Korean Society of Digital Therapeutics

Academic Services

Reviewer

- CHI 2027
- CHI LBW 2025

Teaching

Teaching Assistant, CS101 Introduction to Programming Fall 2025

- KAIST School of Computing

Teaching Assistant, CS492 Special Topics in Computer Science: AI Prototyping Fall 2024

- KAIST School of Computing

Guest Lecturer, Introduction to Figma for UI Prototyping October 2023

- HCI Theory and Practice, Seoul National University (approx. 40 students)

Award

HCIK Best Paper Award Jan 2024

- Won Best Paper Award by 'EmoBridge: Design of a Collaborative Note-taking System to Improve Communication between Students with Disabilities and Peer Notetaker'

JUNCTION ASIA 2023 HACKATHON Aug 2023

- Won 2nd Place in CNK Track of Junction Asia 2023 Hackathon with an delivery service for reclusive loners
- Participated in PM, Design, Development

SPARCS HACKATHON Jan 2023

- Won Silver Award at KAIST SPARCS Hackathon with an alternative text generation service for the visually impaired people
- Participated in PM, Design, Development

Merit Based Scholarship Mar 2020 - Jun 2024

- Merit Based scholarship awarded by Seoul National University

Skills

Languages: Korean, English, Japanese

Web Development: JavaScript, TypeScript, React, Next.js, HTML, CSS

Machine Learning & Data: Python, PyTorch, TensorFlow, scikit-learn, pandas, OpenCV

Design & Collaboration: Figma, Rhino, CAD, Adobe Photoshop, Adobe Illustrator, Git, GitHub, Notion