

Research Interest

- Designing large language model (LLM) applications for education, with the aim of creating personalized learning environments.
- Explore innovative teaching methods that redefine the role of teachers in AI-enhanced classrooms.
- Integrate human-centered and ethical aspects in evaluating AI models designed for education.

Education

- 08/2026-Now **Ph.D Student in Computer Science**
Virginia Tech, Blacksburg, United States
- Advisor: David H. Smith
- 08/2022-08/2024 **M.S. in Industrial Design**
Korea Advanced Institute of Science and Technology, Daejeon, South Korea
- Advisor: Tak Yeon Lee
- Thesis: Designing an Educational Framework for Utilizing Large Language Models: Focusing on EFL Classroom Use Cases
- 02/2017-08/2022 **B.S. in Electrical Engineering, minoring in Industrial Design**
Korea Advanced Institute of Science and Technology, Daejeon, South Korea

Experience

- 10/2025-05/2026 **Visiting Scholar**
Virginia Tech, Blacksburg, United States
- Literature review on general computer science education related systems.
- 02/2025-07/2025 **IT Operation AX CoE Team Manager**
KT Corp. Pangyo, South Korea
- Consulting how to design AI Agents for improving work efficiency and work automation.
- Bridging Microsoft M365 Copilot, Power Platform, Atlassian Confluence & Jira into KT internal system.
- 11/2024-01/2025 **Whale Strategy Team Intern**
NAVER Corp. Bundang, South Korea
- Seeking for the new business opportunity by using Whale infrastructure.
- Writing technical guide for the overall Whale product.
- 01/2022-06/2022 **Machine Development Researcher**
Repla Inc. Suwon, South Korea
- Designed UI/UX of plastic transaction website.
- Designed GUI for a plastic sorting machine.
- 07/2021-08/2021 **Undergraduate Engineering Internship**
Repla Inc. Suwon, South Korea
- Designed a plastic sorting machine.
- Patent: Dongeun Suh, **Minsun Kim**, Hyunjin Lee, Laeeun Kim DEVICE FOR DETERMINING TYPE OF MEASUREMENT OBJECT (KR-Registration No. 10-2563-2930000)

Skills & Techniques

- User Research Interviews, Ethnography, Diary study, Participatory Design, Design Workshop, Survey
- Qualitative Analysis Atlas.ti, Thematic analysis, Content analysis

AI Engineering	Prompt engineering, Basic fine-tuning
Quantitative Analysis	SPSS, Python(Plotly, pandas)
Web Development	Javascript, React JS, MongoDB, Node.js, Figma
Languages	English(Fluent), Korean(Native)
Others	Python, C, C++

Publications

Conference Proceedings

- c3 **Student-ChatGPT Interaction Visible: Designing a Teacher Dashboard for EFL Writing Education**
Minsun Kim, Seon Gyeom Kim, Suyoun Lee, Yoosang Yoon, Junho Myung, Haneul Yoo, Hyungseung Lim, Jieun Han, Yoonsu Kim, So-Yeon Ahn, Juho Kim, Alice Oh, Hwajung Hong, Tak Yeon Lee*
In Companion Proceedings of the 16th Learning Analytics & Knowledge Conference (LAK 2026)
- Conducted survey, interviews, and observation with six EFL instructors about ChatGPT-student interaction
- Developed dashboard prototypes with React, Plotly, and OpenAI API
- Investigated design implications of prompt monitoring dashboard through thematic analysis
- c2 **RECIPE4U: Student-ChatGPT interaction dataset in EFL writing education**
Jieun Han, Haneul Yoo, Junho Myung, **Minsun Kim**, Tak Yeon Lee, So-Yeon Ahn*, Alice Oh*
In Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)
- Analyzed student-ChatGPT interaction dialogues qualitatively.
- Organized dataset for intention classification.
- c1 **RECIPE: How to Integrate ChatGPT into EFL(English as a Foreign Language) Writing Education**
Jieun Han, Haneul Yoo, Yoonsu Kim, Junho Myung, **Minsun Kim**, Hyunseung Lim, Juho Kim, Tak Yeon Lee, Hwajung Hong, So-Yeon Ahn*, Alice Oh*
In Proceedings of the Tenth ACM Conference on Learning @ Scale 2023
- Conducted a focus group interview with six students to identify the system needs when using ChatGPT as an English essay writing tool.
- Supervised 120+ students enrolled in EFL courses and addressed system-related inquiries.

Workshop Papers

- w3 **LLM-Driven Learning Analytics Dashboard for Teachers in EFL Writing Education**
Minsun Kim, Seon Gyeom Kim, Suyoun Lee, Yoosang Yoon, Junho Myung, Haneul Yoo, Hyungseung Lim, Jieun Han, Yoonsu Kim, So-Yeon Ahn, Juho Kim, Alice Oh, Hwajung Hong, Tak Yeon Lee*
EMNLP 2024 Workshop 'CustomNLP4U' (non-archival)
- Demonstrated a specific methodology for how a human-centered approach can enhance the applicability of LLM in educational settings.
- Developed dashboard application that leverages NLP models.
- w2 **LLM-as-a-tutor in EFL Writing Education: Focusing on Evaluation of Student-LLM Interaction**
Jieun Han, Haneul Yoo, Junho Myung, **Minsun Kim**, Hyunseung Lim, Yoonsu Kim, Tak Yeon Lee, Hwajung Hong, Juho Kim, So-Yeon Ahn*, Alice Oh*
EMNLP 2024 Workshop 'CustomNLP4U'
- Shaped evaluation criteria of LLM-student interaction.
- Organized dataset for intention classification.
- w1 **Exploring Student-ChatGPT Dialogue in EFL Writing Education**
Jieun Han, Haneul Yoo, Junho Myung, **Minsun Kim**, Tak Yeon Lee, So-Yeon Ahn*, Alice Oh*
NeurIPS 2023 Workshop 'Generative AI for Education(GAIED)'
- Suggested to construct prompt taxonomy via qualitative coding in the field of natural language processing.
- Served as a data analyst to identify the intentions of 2000+ prompts from EFL students.

Publications & Preprints

- p1 **Fabric: Automated Scoring and Feedback Generation for Essays**
 Jieun Han, Haneul Yoo, Junho Myung, **Minsun Kim**, Hyunseung Lim, Yoonsu Kim, Tak Yeon Lee, Hwajung Hong, Juho Kim, So-Yeon Ahn*, Alice Oh*
CoRR 2023.
- Conducted a focus group interview with six students.
 - Administered written interviews with three EFL instructors to identify feedback types and ascertain their needs.
 - Spearheaded the identification of automated essay scoring needs through interviews conducted using the RECIPE system.

* denotes corresponding authors.

Teaching

2025	KT Corporate Trainer, Power Platform and Copilot Studio Specialist
2023	Teaching assistant, Special Topics in Humanities <AI-Generated Writing and Literature>
2023	Teaching assistant, System Design

Academic Services

2026	ACM SIGCSE-V 2026 Poster PC
2026	ACM L@S 2026 External Reviewer
2025	ACM CHI 2026 Main Track/Poster Reviewer
2024	EMNLP 2024 CustomNLP4U Workshop Reviewer
2024	ACM CHI 2024 Late Breaking Work Reviewer

Honors

2023	iF Design Award “TRUXI - The New Self-Driving Infotainment System”
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Funding & Support

2023-2024	Microsoft Accelerate Foundation Models Research (AFMR) Grant, under the supervision of Prof. Alice Oh, KAIST
2022-2024	Elice, Inc. Sponsored “Generative AI + Education” Project, KAIST
2022-2024	KAIST Graduate Scholarship (Tuition waiver with satisfactory academic standing)
2017-2022	KAIST Undergraduate Scholarship (Tuition waiver with satisfactory academic standing)