

Yoonsu Kim

Ph.D. Student | HCI Researcher

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Research Interests

My research interests include around **Human-Computer Interaction, Human-Centered AI, and Human-AI collaboration.**

I am particularly interested in **understanding the difficulties users face when interacting with AI systems, designing AI systems that enhance human capabilities from a Human-Centered perspective, and enabling people to effectively use and collaborate with AI to amplify their abilities.**

Recently, I have been particularly interested in developing user-centered interactions that support **intent alignment in generative AI systems**, such as large language models (LLMs).

Through my work, I aim to contribute to helping people better utilize new technology.

Education

KAIST

Ph.D. in School of Computing

Advisor: [Juho Kim](#)

Feb 2024 - Present

Daejeon, Republic of Korea

KAIST

M.S. in AI (Specialization: Human-AI Interaction)

Advisor: [Juho Kim](#)

Feb 2022 - Feb 2024

Daejeon, Republic of Korea

POSTECH

B.S. in Computer Science and Engineering

Magna cum laude

Feb 2017 - Feb 2022

Pohang, Republic of Korea

Publications

Preprints

[P1] **IntentFlow: Supporting Interactive and Fluid Intent Communication with Large Language Models**

Yoonsu Kim, Brandon Chin, Kihoon Son, Seoyoung Kim, Juho Kim

Under Review

[P2] **Investigating Large Language Models in Diagnosing Students' Cognitive Skills in Math Problem-solving**

Hyoungwook Jin, Yoonsu Kim, Dongyun Jung, Seungju Kim, Kiyoon Choi, Jinho Son, Juho Kim

Under Review

Conferences and Journal Papers

[C1] **Understanding Users' Dissatisfaction with ChatGPT Responses: Types, Resolving Tactics, and the Effect of Knowledge Level**

Last updated: Sep 26, 2025

Yoonsu Kim, Jueon Lee, Seoyoung Kim, Jaehyuk Park, Juho Kim
IUI 2024

- [C2] **AI-to-Human Actuation: AI Proactively Induces Humans towards Favorable Sensing Conditions**
Sungjae Cho, Yoonsu Kim, Jaewoong Jang, Inseok Hwang
IMWUT 2023

Posters, Demos, and Workshop Papers

- [D1] **Applying the Gricean Maxims to a Human-LLM Interaction Cycle: Design Insights from a Participatory Approach**
Yoonsu Kim, Brandon Chin, Kihoon Son, Seoyoung Kim, Juho Kim
CHI25 EA (Late Breaking Work).
- [D2] **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 on Customizable NLP (CustomNLP4U).
- [D3] **LLM-Driven Learning Analytics Dashboard for Teachers in EFL Writing Education**
Minsun Kim, Junho Myung, Seon Gyeom Kim, Yoosang Yoon, Hyunseung Lim, Yoonsu Kim, Hwajung Hong, Alice Oh, Juho Kim, So-Yeon Ahn, and Tak Yeon Lee
EMNLP 2024 Workshop on Customizable NLP (CustomNLP4U).
- [D4] **Using Large Language Models to Diagnose Math Problem-Solving Skills at Scale**
Hyoungwook Jin*, Yoonsu Kim*, Yeon Su Park, Bekzat Tilekbay, Jinho Son, Juho Kim
(* Corresponding authors)
L@S 2024 WIP
- [D5] **Beyond Prompts: Learning from Human Communication for Enhanced AI Intent Alignment**
Yoonsu Kim, Kihoon Son, Seoyoung Kim, Juho Kim
CHI 2024 Workshop on Getting Back Together: HCI and Human Factors Joining Forces to Meet the AI Interaction Challenge
- [D6] **RECIPE: How to Integrate ChatGPT into EFL 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
L@S 2023 WIP
- [D7] **Towards Understanding the Challenges and Remedies in AI Application Development**
Dae Hyun Kim*, Yoonsu Kim*, Hyungyu Shin, Jinho Son, Juho Kim (* Corresponding authors)
KCC 2023
- [D8] **Demonstrating AHA: Boosting Unmodified AI's Robustness by Proactively Inducing Favorable Human Sensing Conditions**
Sungjae Cho, Jaewoong Jang, Yoonsu Kim, Inseok Hwang
UbiComp/ISWC '23 Adjunct

Experiences

HIS Lab (Human-Centered Intelligent System Lab in POSTECH)
Research Intern
Human-Computer Interaction, Human-AI Interaction, Embedded AI System

Jun 2021 - Feb 2022
Pohang, Republic of Korea

Last updated: Sep 26, 2025

NAVER Connect Foundation
Manager of boostcamp
Web & Mobile, AI Software Education

Feb 2020 - Feb 2021
Seoul, Republic of Korea

Neuromeka
Software Development Intern
Android application development for robot manipulation
and robot database management

Jun 2019 - Aug 2019
Pohang, Republic of Korea

Samsung Electronics Co.
Research Intern
Department of Visual Display, AI • Big Data Lab

Jan 2019 - Feb 2019
Suwon, Republic of Korea

SK Telecom
Software Development Intern
Department of Service Platform
AI Technology Unit, Knowledge and Technology Cell

Jun 2018 - Aug 2018
Seoul, Republic of Korea

Academic Services

Reviewer

- CHI 2025, 2026
- CHI LBW 2023, 2025
- UIST 2025
- IJHCI 2025

Student Volunteer

- CHI 2024

Scholarship

National Scholarship (Science and Engineering)

2017 - 2023

Global Leadership Program

Mar 2018 - Feb 2020

Samsung Dream Class Scholarship

Jan 2018 ~ Feb 2018

Leadership & Service

Leadership

HCI@KAIST Committee
Student Committee

Mar 2024 - Present

KAIST-Google exploreCSR
Student Organizer

Mar 2023 - Aug 2024

POSTECH Student Council
Director of Welfare Department

Feb 2019 - Feb 2021

POSTECH Library Council
President, Vice President

Mar 2017 - Aug 2019

POSTECH Reader's Club 6
(Awarded by Excellent Mentee)
POSTECH Reader's Club 5

Feb 2019 - Dec 2018

Teaching

KAIST Programming Practice (CS109)
Teaching Assistant

Mar 2025 - Present

KAIST Data Structure (CS206)
Teaching Assistant

Mar 2024 - Dec 2024

POSTECH Programming and Problem Solving (CSED101)
Teaching Mentor

Feb 2021 - Dec 2021

Volunteering

**KOICA WFK Korean Medicine Volunteer Group Overseas Medical
Volunteer Activities**

Dec 2023
Krong Battambang,
Cambodia

**KOICA WFK Korean Medicine Volunteer Group Overseas Medical
Volunteer Activities**

Aug 2019
Toshken, Uzbekistan