

# 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.

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## 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

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## Publications

### Conferences and Journal Papers

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

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] **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).*
- [D2] **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).*
- [D3] **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*
- [D4] **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*
- [D5] **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*
- [D6] **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*
- [D7] **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*
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## Experiences

<b>HIS Lab</b> (Human-Centered Intelligent System Lab in POSTECH) Research Intern Human-Computer Interaction, Human-AI Interaction, Embedded AI System	<b>Jun 2021 - Feb 2022</b> Pohang, Republic of Korea
<b>NAVER Connect Foundation</b> Manager of boostcamp Web & Mobile, AI Software Education	<b>Feb 2020 - Feb 2021</b> Seoul, Republic of Korea
<b>Neuromeka</b> Software Development Intern Android application development for robot manipulation and robot database management	<b>Jun 2019 - Aug 2019</b> Pohang, Republic of Korea
<b>Samsung Electronics Co.</b> Research Intern	<b>Jan 2019 - Feb 2019</b> Suwon, Republic of Korea

Department of Visual Display, AI • Big Data Lab

**SK Telecom**

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

**Jun 2018 - Aug 2018**  
Seoul, Republic of Korea

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## Scholarship

<b>National Scholarship (Science and Engineering)</b>	<b>2017 - 2023</b>
<b>Global Leadership Program</b>	<b>Mar 2018 - Feb 2020</b>
<b>Samsung Dream Class Scholarship</b>	<b>Jan 2018 ~ Feb 2018</b>

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## Leadership & Service

### Leadership

<b>HCI@KAIST Committee</b> Student Committee	<b>Mar 2024 - Present</b>
<b>KAIST-Google exploreCSR</b> Student Organizer	<b>Mar 2023 - Aug 2024</b>
<b>POSTECH Student Council</b> Director of Welfare Department	<b>Feb 2019 - Feb 2021</b>
<b>POSTECH Library Council</b> President, Vice President	<b>Mar 2017 - Aug 2019</b>
<b>POSTECH Reader's Club 6</b> (Awarded by Excellent Mentee)	<b>Feb 2019 - Dec 2018</b>
<b>POSTECH Reader's Club 5</b>	

### Teaching

<b>POSTECH Programming and Problem Solving (CSED101)</b> Teaching Mentor	<b>Feb 2021 - Dec 2021</b>
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### Volunteering

<b>KOICA WFK Korean Medicine Volunteer Group Overseas Medical Volunteer Activities</b>	<b>Dec 2023</b> Krong Battambang, Cambodia
<b>KOICA WFK Korean Medicine Volunteer Group Overseas Medical Volunteer Activities</b>	<b>Aug 2019</b> Toshken, Uzbekistan