

TAE SOO KIM

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RESEARCH INTEREST

My work falls in the intersection of human-computer interaction (**HCI**) and artificial intelligence (**AI**), focusing on **interactive alignment**. Specifically, I explore how to **disentangle** user inputs and AI outputs into **interactive components** that empower users to (1) **iterate** on their intents to guide the AI model, and (2) **audit** that the model's behavior aligns with their intents.

EDUCATION

KAIST

Ph.D. in Computer Science. Advisor: Juho Kim
M.S. in Computer Science (Outstanding Thesis Award)
B.S. in Computer Science (Magna Cum Laude)

Daejeon, South Korea

Mar. 2022 - Present

Mar. 2020 - Feb. 2022

Sep. 2015 - Feb. 2020

PUBLICATIONS

Conference and Journal Papers

[C14] CUPID: Evaluating Personalized and Contextualized Alignment of LLMs from Interactions

Tae Soo Kim, Yoonjoo Lee, Yoonah Park, Jiho Kim, Young-Ho Kim, Juho Kim

To appear in COLM 2025: Conference in Language Modeling

[C13] One vs. Many: Comprehending Accurate Information from Multiple Erroneous and Inconsistent AI Generations

Yoonjoo Lee, Kihoon Son, Tae Soo Kim, Jisu Kim, John Joon Young Chung, Eytan Adar, Juho Kim

FAccT 2024: Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency.

[C12] EvalLM: Interactive Evaluation of Large Language Model Prompts on User-Defined Criteria

Tae Soo Kim, Yoonjoo Lee, Jamin Shin, Young-Ho Kim, Juho Kim

CHI 2024: Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems.

[C11] GenQuery: Supporting Expressive Visual Search with Generative Models

Kihoon Son, DaEun Choi, Tae Soo Kim, Young-Ho Kim, Juho Kim

CHI 2024: Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems.

[C10] Demystifying Tacit Knowledge in Graphic Design: Characteristics, Instances, Approaches, and Guidelines

Kihoon Son, DaEun Choi, Tae Soo Kim, Juho Kim

CHI 2024: Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems.

Honorable Mention Award

[C9] The Semantic Reader Project: Augmenting Scholarly Documents through AI-Powered Interactive Reading Interfaces

Kyle Lo, Joseph Chee Chang, Andrew Head, Jonathan Bragg, Amy X. Zhang, Cassidy Trier, (+ 47 authors including Tae Soo Kim), Marti A. Hearst, Daniel S. Weld

Communications of the ACM 2024.

[C8] Cells, Generators, and Lenses: Design Framework for Object-Oriented Interaction with Large Language Models

Tae Soo Kim, Yoonjoo Lee, Minsuk Chang, Juho Kim

UIST 2023: Proceedings of the 2023 ACM Symposium on User Interface Software and Technology.

[C7] Papeos: Augmenting Research Papers with Talk Videos

Tae Soo Kim, Matt Latzke, Jonathan Bragg, Amy X. Zhang, Joseph Chee Chang

UIST 2023: Proceedings of the 2023 ACM Symposium on User Interface Software and Technology.

[C6] DAPIE: Interactive Step-by-Step Explanatory Dialogues to Answer Children’s Why and How Questions

Yoonjoo Lee, **Tae Soo Kim**, Sungdong Kim, Yohan Yun, Juho Kim

CHI 2023: Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems.

[C5] Stylette: Styling the Web with Natural Language

Tae Soo Kim, DaEun Choi, Yoonseo Choi, Juho Kim

CHI 2022: Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems.

Honorable Mention Award

[C4] Promptiverse: Scalable Generation of Scaffolding Prompts Through Human-AI Hybrid Knowledge Graph Annotation

Yoonjoo Lee, John Joon Young Chung, **Tae Soo Kim**, Jean Y Song, Juho Kim

CHI 2022: Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems.

[C3] Winder: Linking Speech and Visual Objects to Support Communication in Asynchronous Collaboration

Tae Soo Kim, Seungsu Kim, Yoonseo Choi, Juho Kim

CHI 2021: Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems.

[C2] Supporting Collaborative Sequencing for Small Groups through Visual Awareness

Tae Soo Kim, Nitesh Goyal, Jeongyeon Kim, Juho Kim, Sungsoo (Ray) Hong

CSCW 2021: Proceedings of the ACM on Human-Computer Interaction, Volume 5, Issue CSCW. April 2021.

[C1] Design for Collaborative Information-Seeking: Understanding User Challenges and Deploying Collaborative Dynamic Queries

Sungsoo (Ray) Hong, Minhyang (Mia) Suh, **Tae Soo Kim**, Irina Smoke, Sangwha Sien, Janet Ng, Mark Zachry, Juho Kim

CSCW 2019: Proceedings of the ACM on Human-Computer Interaction, Volume 3, Issue CSCW. November 2019.

Posters, Demos, and Workshop Papers

[D8] Interacting with AI by Manipulating Intent

Tae Soo Kim

CHI 2025 In-Person Doctoral Consortium

[D7] Evaligner: Automatic Prompt and Criteria Refinement from User Feedback

Heechan Lee, **Tae Soo Kim**, Juho Kim

CHI 2025 Workshop on Human-Centered Evaluation and Auditing of Language Models (HEAL)

[D6] How to Reflect Diverse People’s Perspectives in Large-Scale LLM-based Evaluations?

Yoonjoo Lee, **Tae Soo Kim**, Juho Kim

CHI 2024 Workshop on Human-Centered Evaluation and Auditing of Language Models (HEAL)

[D5] Unveiling Disparities in Web Task Handling Between Human and Web Agent

Kihoon Son, Jinhyeon Kwon, DaEun Choi, **Tae Soo Kim**, Young-Ho Kim, Sangdoo Yun, Juho Kim

CHI 2024 Workshop on Computational Methodologies for Understanding, Automating, and Evaluating User Interface

[D4] LMCanvas: Object-Oriented Interaction to Personalize Large Language Model-Powered Writing Environment

Tae Soo Kim, Arghya Sarkar, Yoonjoo Lee, Minsuk Chang, Juho Kim

CHI 2023 Workshop on Generative AI and HCI

[D3] Interactive Children’s Story Rewriting Through Parent-Children Interaction

Yoonjoo Lee, **Tae Soo Kim**, Minsuk Chang, Juho Kim

ACL 2022 Workshop on Intelligent and Interactive Writing Assistant (In2Writing)

[D2] Improving Video Interfaces by Presenting Informational Units of Videos

Saelyne Yang, Sangkyung Kwak, **Tae Soo Kim**, Juho Kim

CHI 2022 Workshop on Computational Approaches for Understanding, Generating, and Adapting User Interfaces

[D1] Consensus Building in Collaborative Sequencing with Visual Awareness

Tae Soo Kim, Sungsoo (Ray) Hong, Nitesh Goyal, Jeongyeon Kim, Juho Kim

CHI 2020 Extended Abstract

RESEARCH EXPERIENCE

Allen Institute for AI <i>Research Scientist Intern, Semantic Scholar</i> Mentors: Joseph Chee Chang, Amy X. Zhang, Jonathan Bragg	Jul. 2022 - Oct. 2022 <i>Seattle, WA</i> [C7]
KIXLAB, KAIST <i>Undergraduate Research Intern</i> Mentors: Juho Kim, Ray Hong	Dec. 2017 - Feb. 2020 <i>Daejeon, South Korea</i> [C1, C2, D1]

HONORS AND AWARDS

Honorable Mention Award <i>ACM CHI 2022; ACM CHI 2024</i>	2022, 2024
Outstanding TA Award <i>School of Computing, KAIST</i>	2023
AI2 Outstanding Intern of the Year Award <i>Allen Institute for AI</i>	2022
Outstanding M.S. Thesis Award <i>School of Computing, KAIST</i>	2022
Special Recognition for Outstanding Reviews <i>CHI 2022-2025; UIST 2022; CSCW 2023, 2025</i>	2021, 2022, 2023, 2024
Dean's List <i>School of Computing, KAIST</i>	Spring 2018

TEACHING

Human-AI Interaction <i>KAIST CS496G Teaching Assistant, Instructor: Juho Kim</i>	Fall 2023
Data Structure <i>KAIST CS206 Teaching Assistant, Instructor: Eun Young Moon</i>	Spring 2023, Fall 2024
Design and Analysis of Algorithm <i>KAIST CS500 Teaching Assistant, Instructor: Sunghee Choi</i>	Spring 2022
Introduction to Human-Computer Interaction <i>KAIST CS374 Teaching Assistant, Instructor: Juho Kim</i>	Spring 2021
Introduction to Social Computing <i>KAIST CS473 Teaching Assistant, Instructor: Juho Kim</i>	Fall 2020

ACADEMIC SERVICES

Program Committee CHI LBW 2023-2024
Reviewer CHI 2022-2025. UIST 2022-2025. CSCW 2020, 2023-2025. DIS 2023, 2025. CHI LBW 2021, 2025.
Student Volunteer UIST 2021, 2023; CHI 2022

INVITED TALKS

Guest Lecture at KAIST CS475 ML for NLP Title: "Data Use in LLMs and Human-centered Evaluation"	Dec. 2024
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Guest Lecture at NYU Abu Dhabi CDAD-UH 1044Q Human-Centered Data Science Title: <i>"Interactively Evaluating LLMs on Specific, Subjective Criteria"</i>	Apr. 2024 Dec. 2023
NAVER Tech Talk Talk on the <i>"Cells, Generators, and Lenses"</i> and <i>"EvalLM"</i> papers.	Nov. 2023
Guest Lecture at PSU IST 597-001 Intelligent and Interactive Writing Assistants Title: <i>"Designing for Object-Oriented Interaction in Large Language Model-Powered Writing Interfaces"</i>	Sep. 2023
Invited Talk at Manila ACM SIGCHI Chapter Title: <i>"Mapping Multiple Modalities to Empower Novice Designers"</i>	Jun. 2022