

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 AI 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 (*CoE Ph.D. Dissertation Award*)

Thesis: *"Disentangling Language for Interactive AI Alignment"*

Advisor: Juho Kim

M.S. in Computer Science (*SoC 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

Preprints

[P1] DiscoverLLM: From Executing Intents to Discovering Them

Tae Soo Kim, Yoonjoo Lee, Jaesang Yu, John Joon Young Chung, Juho Kim

Under Review.

Conference and Journal Papers

[C16] Evalet: Evaluating Large Language Models by Fragmenting Outputs into Functions

Tae Soo Kim*, Heechan Lee*, Yoonjoo Lee, Joseph Seering, Juho Kim

CHI 2026: Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems. (Cond. Accept)

[C15] ClearFairy: Capturing Workflows through Decision Structuring, In-Situ Questioning, and Rationale Inference

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

CHI 2026: Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems. (Cond. Accept)

[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

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

- [D9] On the Regulatory Potential of User Interfaces for AI Agent Governance**
 K. J. Kevin Feng*, **Tae Soo Kim***, Rock Yuren Pang*, Faria Huq, Tal August, Amy X. Zhang
NeurIPS 2025 Workshop on Regulatable ML
- [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 Interfaces

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

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

Research Scientist Intern, Semantic Scholar

Mentors: Joseph Chee Chang, Amy X. Zhang, Jonathan Bragg

Jul. 2022 - Oct. 2022

Seattle, WA

[C7]

KIXLAB, KAIST

Undergraduate Research Intern

Mentors: Juho Kim, Ray Hong

Dec. 2017 - Feb. 2020

Daejeon, South Korea

[C1, C2, D1]

HONORS AND AWARDS

CoE Ph.D. Dissertation Award

College of Engineering, KAIST

2026

Outstanding Ph.D. Thesis Award

School of Computing, KAIST

2026

Honorable Mention Award

ACM CHI 2022; ACM CHI 2024

2022, 2024

Outstanding TA Award

School of Computing, KAIST

2023

AI2 Outstanding Intern of the Year Award

Allen Institute for AI

2022

Outstanding M.S. Thesis Award

School of Computing, KAIST

2022

Special Recognition for Outstanding Reviews

CHI 2022-2026; UIST 2022; CSCW 2023, 2025

2021, 2022, 2023, 2024

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 2022-2026 / UIST 2022-2025 / CSCW 2020, 2023-2025 / DIS 2023, 2025, 2026 / C&C 2026 / CHI LBW 2021, 2025, 2026
Student Volunteer UIST 2021, 2023 / CHI 2022

INVITED TALKS

Invited Talk at the Human-Centered AI Reading Group, MILA Title: <i>"Disentangling Text for Interactive AI Alignment"</i>	Oct. 2025
Guest Lecture at KAIST CS475 ML for NLP Title: <i>"Data Use in LLMs and Human-centered Evaluation"</i>	Dec. 2024
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