

TAE SOO KIM

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RESEARCH INTEREST

My work falls in the intersection of human-computer interaction (**HCI**) and artificial intelligence (**AI**). I design interaction techniques powered by machine learning (ML) models that enable and facilitate **intent-driven creation** (e.g., design, writing). Recently, I have been interested in investigating how to **modularize** ML models or pipelines to enable users to interact with these modules to manipulate these pipelines.

EDUCATION

KAIST

Ph.D. in Computer Science
Advisor: Juho Kim

Mar 2022 - Present

Daejeon, South Korea

KAIST

M.S. in Computer Science
Advisor: Juho Kim

Mar 2020 - Feb 2022

Daejeon, South Korea

KAIST

B.S. in Computer Science (Magna Cum Laude)

Sep 2015 - Feb 2020

Daejeon, South Korea

PUBLICATIONS

Conference and Journal Papers

[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

Proceedings of the ACM on Human-Computer Interaction, Volume 5, Issue CSCW. April 2021. Article No.: 176, pp 1–29. Presented at CSCW 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

Proceedings of the ACM on Human-Computer Interaction, Volume 3, Issue CSCW. November 2019. Article No.: 106, pp 1–24. Presented at CSCW 2019.

Posters, Demos, and Workshop Papers

[P4] 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

[P3] 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

[P2] 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

[P1] 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

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

Jul 2022 - Oct 2022

Seattle, WA

[under submission]

KIXLAB, KAIST

Undergraduate Research Intern

Mentor: Juho Kim, Ray Hong

Dec 2017 - Feb 2020

Daejeon, South Korea

[C1, C2, P1]

HONORS AND AWARDS

AI2 Outstanding Intern of the Year Award

Allen Institute for AI

2022

Honorable Mention Award

ACM CHI 2022

2022

Outstanding M.S. Thesis Award

School of Computing, KAIST

2022

Special Recognition for Outstanding Reviews

CHI 2022, UIST 2022, CSCW 2023, CHI 2023

2021, 2022

Dean's List

School of Computing, KAIST

Spring 2018

TEACHING

Data Structure

KAIST CS206 Teaching Assistant, Instructor: Eun Young Moon

Spring 2023

Design and Analysis of Algorithm

KAIST CS500 Teaching Assistant, Instructor: Sunghee Choi

Spring 2022

Introduction to Human-Computer Interaction

KAIST CS374 Teaching Assistant, Instructor: Juho Kim

Spring 2021

Introduction to Social Computing

KAIST CS473 Teaching Assistant, Instructor: Juho Kim

Fall 2020

ACADEMIC SERVICES

Program Committee

CHI LBW 2023

Reviewer

DIS 2023

CHI 2022, 2023

UIST 2022

CSCW 2020, 2023

CHI LBW 2021

Student Volunteer

CHI 2022

UIST 2021

INVITED TALKS

Invited talk at Manila ACM SIGCHI Chapter

June 2022