DaEun Choi

School of Computing · Ph.D. Student

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Summary

I am a 1st-year Ph.D. student in the School of Computing at KAIST. I am working with Prof. Juho Kim at KIXLAB (KAIST Interaction Lab). My research interest is in Human-Computer Interaction(HCI). I'm especially interested in investigating how generative AI can better support people's creative thinking process and building AI-infused creativity supporting tools.

Education

Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, Republic of Korea*
Ph.D. in School of Computing *Feb 2024 -*
KIXLAB (KAIST Interaction Lab) (Advisor: Juho Kim)

Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, Republic of Korea*
M.S. in School of Computing *Feb 2022 - Feb 2024*
KIXLAB (KAIST Interaction Lab) (Advisor: Juho Kim)

Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, Republic of Korea*
B.S. in School of Computing (Double Major in Bio&Brain Engineering) *Mar 2017 - Feb 2022*
Magna Cum Laude

Publication

Conference Papers

A Context-Aware Onboarding Agent for Metaverse Powered by Large Language Models
ACM DIS 2024
Jihyeong Hong, Yokyung Lee, Dae Hyun Kim, **DaEun Choi**, Yeo-Jin Yoon, Gyu-cheol Lee, Zucheul Lee, Juho Kim

CreativeConnect: Supporting Reference Recombination for Graphic Design Ideation with Generative AI
ACM CHI 2024
DaEun Choi, Sumin Hong, Jeongeon Park, John Joon Young Chung, Juho Kim

Demystifying Tacit Knowledge in Graphic Design: Characteristics, Instances, Approaches, and Guidelines
ACM CHI 2024 *Honorable Mention Award*
Kihoon Son, **DaEun Choi**, Tae Soo Kim, Juho Kim

GenQuery: Supporting Expressive Visual Search with Generative Models
ACM CHI 2024
Kihoon Son, **DaEun Choi**, Tae Soo Kim, Young-Ho Kim, Juho Kim

Surch: Enabling Structural Search and Comparison for Surgical Videos
ACM CHI 2023
Jeongyeon Kim, **DaEun Choi**, Nicole Lee, Matthew Beane, Juho Kim

Stylette: Styling the Web with Natural Language
ACM CHI 2022 *Honorable Mention Award*
Tae Soo Kim, **DaEun Choi**, Yoonseo Choi, Juho Kim

Reflect, not Regret: Understanding Regretful Smartphone Use with App Feature-Level Analysis
ACM CSCW 2021 *Best Paper Award & Method Recognition*
Hyunsung Cho, **DaEun Choi**, Donghwi Kim, Wan Ju Kang, Eun Kyoung Choe, and Sung-Ju Lee

Unveiling Disparities inWeb Task Handling Between Human and Web Agents

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

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

AudiLens: Configurable LLM-Generated Audiences for Public Speech Practice

ACM UIST 2023 Student Innovation Contest   *Jury's Best SIC Honorable Mention Award*

Jeongeon Park*, **DaEun Choi***(*Equal contribution)

Techniques for Semantic Search and Comparison for Robotic Surgery Videos

ACM CHI 2022 Workshop on Integration of Human Factors in Surgery

Jeongyeon Kim, **DaEun Choi**, Matthew Beane, Juho Kim

Experiences

Undergraduate Research Intern   *Daejeon, Republic of Korea*

KIXLAB(KAIST Interaction Lab)

- Worked on a project to enhance user-side customization of websites using an LLM-based pipeline. (Published at CHI' 22)
- Worked on a project to build an interactive surgery video player for improved learning experience. (Published at CHI' 23)

Undergraduate Research Intern   *Daejeon, Republic of Korea*

NMSL(Networking & Mobile Systems Lab)

- Worked on a project on feature-level fine-grained smartphone usage tracking and intervention. (Published at CSCW' 21)

Software Architect Intern   *Seoul, Republic of Korea*

LG CNS

- Participated in the IT Core Talent Academy internship program as a software architect.
- Implemented architecture for large-scale web services with CI/CD servers and load balancing.

Honors & Awards

Awards

Special Recognitions for Outstanding Reviews   ACM DIS 2024   *2024*
Outstanding M.S. Thesis Award   School of Computing, KAIST   *2024*
Outstanding Edu 4.0Q TA Award   KAIST   *2023*
Outstanding TA Award   School of Computing, KAIST   *2022*
Dean's List   College of Engineering, KAIST   *2020*

Scholarships

Misook Lim Scholarship   1 million KRW   *Fall 2021*
KAIST Exemplary Conduct Scholarship   1 million KRW   *2019*

Teaching

CS101: Introduction to Programming   *Spring 2019 - Fall 2024*

Teaching Assistant

CS374: Introduction to Human-Computer Interaction   *Spring 2023*

Teaching Assistant

Service & Leadership

ACADEMIC SERVICE

Reviewer   CHI 2024, DIS 2024, CHI LBW 2024
Student Volunteer   CHI 2024, CSCW 2022

LEADERSHIP

Student Organizer   KAIST-Google ExploreCSR Event Organizing Team *Sep 2023 - Aug 2024*
Head of Media Team   KAIST Graduate Student Association *Feb 2022 -*
Head of Design & Technology Team   KAIST Undergraduate Association *Feb 2020 - Jan 2021*
Student Representative   KAIST Undergraduates of School of Computing *Feb 2019 - Jan 2020*

ACTIVITIES

Web Designer & Developer   SPARCS *Mar 2019 - Feb 2022*
UX Researcher & Designer   Student-led KLMS Redesign Team *Jul 2021 - Aug 2021*