DaEun Choi

HUMAN-COMPUTER INTERACTION · PH.D. STUDENT

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Summary

I am a second year Ph.D. student in the School of Computing at KAIST, working with Prof. Juho Kim at KIXLAB (KAIST Interaction Lab). My research interest is in Human-Computer Interaction (HCI). I am 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 Computer Science   *Feb 2024 - Present*
Advisor: Juho Kim

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

Korea Advanced Institute of Science and Technology (KAIST)   *Daejeon, Republic of Korea*
B.S. in Computer Science (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

Posters, Demos, Workshop Papers

Expandora: Broadening Design Exploration with Text-to-Image Model
ACM CHI 2025 LBW (Late-Breaking Work)
DaEun Choi, Kihoon Son, HyunJoon Jung, Juho Kim

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

Experience

Adobe Research   *Cambridge, MA*
Research Scientist Intern   *Jun 2025 - Sep 2025*
Mentor: Hijung Valentina Shin

KIXLAB (KAIST Interaction Lab)   *Daejeon, Republic of Korea*
Undergraduate Research Intern   *Jan 2021 - Feb 2022*
Mentors: Juho Kim, Tae Soo Kim, Jeongyeon Kim

NMSL (Networking & Mobile Systems Lab)   *Daejeon, Republic of Korea*
Undergraduate Research Intern   *Aug 2020 - Dec 2020*
Mentors: Sung-Ju Lee, Hyunsung Cho

LG CNS   *Seoul, Republic of Korea*
Software Architect Intern   *Jan 2020 - Feb 2020*
Implemented architecture for large-scale web services with CI/CD servers and load balancing.

Honors & Awards

Awards

Special Recognitions for Outstanding Reviews   DIS 2024, CHI 2025 ×2, DIS 2025
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   *2021*
KAIST Exemplary Conduct Scholarship   *2019*

Teaching

CS101: Introduction to Programming   *Spring 2019 - Spring 2025*
Teaching Assistant

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

Service & Leadership

ACADEMIC SERVICE

Reviewer DIS 2025, CHI LBW 2025, CHI 2025, DIS 2024, CHI LBW 2024
Student Volunteer CHI 2025, 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 - Present*
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 System Programmers' Association for Researching Computer Systems *Mar 2019 - Feb 2022*
UX Researcher & Designer KAIST LMS Redesign Team *Jul 2021 - Aug 2021*