

# 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. My research interest is in Human-Computer Interaction (HCI). I design interactions for generative AI systems that support human creativity by enabling the expression, reuse, and evolution of ideas across diverse creative processes, including design exploration and video storytelling.

## Education

**KAIST (Korea Advanced Institute of Science and Technology)**

Feb 2024 - Present

Ph.D. in Computer Science (Advisor: Juho Kim)

**KAIST (Korea Advanced Institute of Science and Technology)**

Feb 2022 - Feb 2024

M.S. in Computer Science (Graduated with Outstanding Thesis Award)

**KAIST (Korea Advanced Institute of Science and Technology)**

Mar 2017 - Feb 2022

B.S. in Computer Science and Bio&Brain Engineering (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

**Styllette: 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

**IdeaBlocks: Expressing and Reusing Exploratory Intents for Design Exploration with Generative AI**

ACM UIST 2025 Demos

**DaEun Choi**, Kihoon Son, Jaesang Yu, Hyunjoon Jung, Juho Kim

**ThematicPlane: Bridging Tacit User Intent and Latent Spaces for Image Generation**

ACM UIST 2025 Posters

Daniel Lee, Nikhil Sharma, Donghoon Shin, **DaEun Choi**, Harsh Sharma, Jeonghwan Kim, Heng Ji

**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 in Web 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**

Research Scientist Intern

Mentor: Hijung Valentina Shin, Mira Dontcheva

Cambridge, MA, USA

Jun 2025 - Sep 2025

**KIXLAB (KAIST Interaction Lab)**

Undergraduate Research Intern

Mentors: Juho Kim, Tae Soo Kim, Jeongyeon Kim

Daejeon, Republic of Korea

Jan 2021 - Feb 2022

**NMSL (Networking & Mobile Systems Lab)**

Undergraduate Research Intern

Mentors: Sung-Ju Lee, Hyunsung Cho

Daejeon, Republic of Korea

Aug 2020 - Dec 2020

**LG CNS**

Software Architect Intern

Seoul, Republic of Korea

Jan 2020 - Feb 2020

Honors & Awards

AWARDS

**Special Recognitions for Outstanding Reviews** DIS 2024, CHI 2025 ×2, DIS 2025, UIST 2025 ×2

**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

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### **CS101: Introduction to Programming**

Teaching Assistant

*Spring 2019 - Spring 2025*

### **CS374: Introduction to Human-Computer Interaction**

Teaching Assistant

*Spring 2023*

### **CS473: Introduction to Social Computing**

Teaching Assistant

*Fall 2025*

## Service & Leadership

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### ACADEMIC SERVICE

**Reviewer** CHI 2025 - 2026, UIST 2025, DIS 2024 - 2025, CHI LBW 2024 - 2025

**Student Volunteer** CHI 2024 - 2025, 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*