

Donghoon Shin

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EDUCATION

University of Washington, Seattle, WA

Sep 2022 –

- Ph.D., Human Centered Design & Engineering
- M.S., Human Centered Design & Engineering (concurrent with Ph.D.)
 - Advisor: Profs. Gary Hsieh & Lucy Lu Wang

Jul 2024 (expected)

Seoul National University, Seoul, Republic of Korea

Mar 2016 – Aug 2022

- B.S., Electrical & Computer Engineering, Information Science
 - Graduated *cum laude*

RESEARCH INTERESTS

Human-Computer Interaction (HCI)

- Human-AI Collaboration, Generative AI, Translational Science, Healthcare, Conversational Agent.

RESEARCH EXPERIENCE

Adobe Research, San Jose, CA

Summer 2024

- Incoming research intern (Mentor: Gromit Yeuk-Yin Chan)

Naver AI Lab, Seongnam, Korea

Summer 2023

- Research intern (Mentor: Young-Ho Kim)

CoALA Lab & Data Interaction Group, Carnegie Mellon University

Nov 2020 – Jan 2022

- Undergraduate research intern (Mentor: Kenneth Holstein & Adam Perer)

HCI+d Lab, Seoul National University

Aug 2019 – Oct 2020

- Undergraduate research intern (Mentor: Joonhwan Lee)

PUBLICATIONS

CONFERENCE & JOURNAL PAPER

[P10] From Paper to Card: Transforming Design Implications with Generative AI

Donghoon Shin, Lucy Lu Wang, Gary Hsieh

CHI 2024. (to appear)

[P9] AI-Assisted Causal Pathway Diagram for Human-Centered Design

Ruican Zhong*, **Donghoon Shin***, Rosemary Meza, Predrag Klasnja, Lucas Colusso, Gary Hsieh

*co-first authorship

CHI 2024. (to appear)

[P8] DiaryMate: Understanding User Perceptions and Experience in Human-AI Collaboration for Personal Journaling

Taewan Kim, **Donghoon Shin**, Young-Ho Kim, Hwajung Hong

CHI 2024. (to appear)

[P7] PlanFitting: Tailoring Personalized Exercise Plans with Large Language Models

Donghoon Shin, Gary Hsieh, Young-Ho Kim

arXiv 2023.

[P6] IntroBot: Exploring the Use of Chatbot-assisted Familiarization in Online Collaborative Groups


Donghoon Shin, Soomin Kim, Ruoxi Shang, Joonhwan Lee, Gary Hsieh

CHI 2023.

[P5] How Older Adults Use Online Videos for Learning

Seoyoung Kim, **Donghoon Shin**, Jeongyeon Kim, Sunwoo Kim, Juho Kim

CHI 2023.

- [P4] Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making
Katelyn Morrison, **Donghoon Shin**, Kenneth Holstein, Adam Perer
CSCW 2023.
- [P3] Trkic G00gle: Why and How Users Game Translation Algorithms
Soomin Kim, Changhoon Oh, Won Ik Cho, **Donghoon Shin**, Bongwon Suh, Joonhwan Lee
CSCW 2021.
- [P2] Design Guidelines of Computer-based Intervention for Computer Vision Syndrome: Focus Group Study and In-the-wild Deployment
Youjin Hwang, **Donghoon Shin**, Jinsu Eun, Bongwon Suh, Joonhwan Lee
Journal of Medical Internet Research 23(3), 2021.
- [P1] TalkingBoogie: Collaborative Mobile AAC System for Children with Developmental Disabilities and Their Caregivers
Donghoon Shin, Jaeyoon Song, Seokwoo Song, Jisoo Park, Joonhwan Lee, Soojin Jun
CHI 2020.
 **Honorable Mention Award** (top 5% among all submissions)

POSTER & WORKSHOP PAPER

- [W7] DiaryMate: Exploring the Roles of Large Language Models in Facilitating AI-mediated Journaling
Taewan Kim, **Donghoon Shin**, Young-Ho Kim, Hwajung Hong
CHI 2023 Workshop. (*Intelligent and Interactive Writing Assistants*)
- [W6] Exploring the Effects of AI-assisted Emotional Support Processes in Online Mental Health Community
Donghoon Shin, Subeen Park, Esther Hehsun Kim, Soomin Kim, Jinwook Seo, Hwajung Hong
CHI 2022 Extended Abstracts. (*Late-Breaking Work*)
- [W5] Leveraging AI to Assist Emotional Supports in Online Mental Health Community
Donghoon Shin, Subeen Park, Esther Hehsun Kim, Soomin Kim, Jinwook Seo, Hwajung Hong
CHI 2022 Workshop. (*Future of Emotion in HCI*)
- [W4] Characterizing Human Explanation Strategies to Inform the Design of Explainable AI for Building Damage Assessment
Donghoon Shin, Sachin Grover, Kenneth Holstein, Adam Perer
NeurIPS 2021 Workshop. (*AI for Humanitarian Assistance and Disaster Response*)
- [W3] BlahBlahBot: Facilitating Conversation between Strangers using a Chatbot with ML-infused Personalized Topic Suggestion
Donghoon Shin, Sangwon Yoon, Soomin Kim, Joonhwan Lee
CHI 2021 Extended Abstracts. (*Late-Breaking Work*)
- [W2] Linguistic Features to Consider When Applying Persona of the Real Persona to the Text-based Agent
Youjin Hwang, Seokwoo Song, **Donghoon Shin**, Joonhwan Lee
MobileHCI 2020 Extended Abstracts. (*Late-Breaking Results*)
- [W1] Applying the Persona of User's Family Member and the Doctor to the Conversational Agents for Healthcare
Youjin Hwang, **Donghoon Shin**, Sion Baek, Bongwon Suh, Joonhwan Lee
CHI 2020 Workshop. (*Conversational Agents for Health and Wellbeing*)

DOMESTIC CONFERENCE PAPER & TECHNICAL REPORT

	<p>[D2] AmslerTouch: Self-testing Amsler Grid Application for Supporting a Quantitative Report of Age-related Macular Degeneration Symptoms Donghoon Shin <i>HCIK 2022.</i></p> <p>[D1] An Analysis of K-MOOC Learners' Data and an Investigation of Its Future Applications Seoyoung Kim, Sunwoo Kwon, Donghoon Shin, Juho Kim <i>Issue paper of Korea's National Institute for Lifelong Education, 2019.</i></p>	
PATENT	<p>[C1] Method and Apparatus for Mimicking Conversational Style Youjin Hwang, Joonhwan Lee, Donghoon Shin Republic of Korea Patent (10-2021-0032858)</p>	Mar 2021
AWARDS & HONORS	<p>Graduate School Conference Presentation Award, University of Washington ▪ Conference presentation award for presenting a paper at CHI conference Apr 2023</p> <p>Korean Government Scholarship for Overseas Study, Republic of Korea ▪ Merit-based scholarship for graduate studies funded by the Korean government ▪ Around 50 recipients selected annually Aug 2022</p> <p>Graduate School Fellowship, University of Washington ▪ Selected by the department Jun 2022</p> <p>Gary Marsden Travel Award, ACM SIGCHI ▪ Travel grant for attending CHI 2022 Apr 2022</p> <p>Special Recognition for Outstanding Reviews, ACM CHI 2022 ▪ Recognition for the paper review Nov 2021</p> <p>Honorable Mention Award, ACM CHI 2020 ▪ Selected among the top 5% of paper submissions Apr 2020</p> <p>Presidential Science Scholarship, Republic of Korea ▪ Merit-based scholarship for undergraduate studies funded by the Korean government ▪ Around 150 recipients are selected annually 2020 – 2021</p> <p>Conference and Travel Scholarship, Google ▪ Travel grant for attending CHI 2020 (travel canceled due to COVID-19) Feb 2020</p> <p>Best Undergraduate Research Award, Seoul National University ▪ Ranked 1st among all the undergraduate research projects in 2019 Jan 2020</p> <p>Undergraduate Research Grant, Seoul National University ▪ \$5,000 research grant • Designing a mobile system for supporting a group counseling for managing anxiety (May 2021) • Designing a collaborative AAC system for children with developmental disabilities (May 2019) May 2019, May 2021</p> <p>Merit-based Scholarship, Seoul National University ▪ Undergraduate merit-based scholarship Fall 2016, Fall 2017</p>	
TEACHING EXPERIENCE	<p>Teaching Assistant, University of Washington ▪ HCDE 511: Information Visualization (Winter 2024) ▪ HCDE 538: Designing For Behavior Change (Fall 2023)</p> <p>Invited Keynote, 2114.408A: HCI Theory and Practice Apr 2022</p>	

	Undergraduate Teaching Assistant , L0444.000400: Basic Computing	Summer 2021
	Invited Keynote , Dept. of Information Science & Culture	Oct 2018, Apr 2020
	<ul style="list-style-type: none"> Undergraduate seminar <ul style="list-style-type: none"> Introduction to iOS Programming (Oct 2018), Doing the HCI research as an undergrad (Apr 2020) 	
WORK EXPERIENCE	iOS developer , elecle <ul style="list-style-type: none"> Korean electric-bike sharing service startup 	Apr 2020 – Jun 2021
SERVICES	Program Committee <ul style="list-style-type: none"> CHI (2024) Reviewer <ul style="list-style-type: none"> CHI (2020 - 2024) DIS (2023) MobileHCI (2021) Journal of Medical Internet Research (2021) Ph.D. Student Admission Reviewer , UW HCDE <ul style="list-style-type: none"> Student reviewer for the Ph.D. admission Student Volunteer <ul style="list-style-type: none"> MobileHCI (2021) 	Dec 2022
COMMUNITY SERVICES	Wholsee , Seoul, Republic of Korea <ul style="list-style-type: none"> A crowdfunded scholarship for supporting the higher education of low-income women 	Dec 2020 – Jan 2021
SKILLS	Languages: Korean, English Programming: Swift, Python, Javascript, Svelte, C++, Processing, etc. Designing: Adobe Photoshop, Adobe Illustrator, Figma Others: \LaTeX , Microsoft PowerPoint / Word / Excel, etc.	
REFERENCES	Gary Hsieh <ul style="list-style-type: none"> Associate Professor, University of Washington Lucy Lu Wang <ul style="list-style-type: none"> Assistant Professor, University of Washington Joonhwan Lee <ul style="list-style-type: none"> Professor, Seoul National University 	

[Last update: January 18, 2024]