

Donghoon Shin

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EDUCATION	<p>University of Washington, Seattle, WA 2022 –</p> <ul style="list-style-type: none">▪ Ph.D., Human Centered Design & Engineering▪ M.S., Human Centered Design & Engineering (concurrent with Ph.D.)<ul style="list-style-type: none">• Advisor: Gary Hsieh & Lucy Lu Wang <p>Seoul National University, Seoul, Korea 2016 – 2022</p> <ul style="list-style-type: none">▪ B.S., Electrical & Computer Engineering, Information Science<ul style="list-style-type: none">• Graduated <i>cum laude</i>
RESEARCH INTERESTS	<p>My research lies at the intersection of Human-Computer Interaction (HCI) and Natural Language Processing (NLP). Throughout my research, I aim to transform complex academic insights in a way that is more accessible to practitioners and better aligned with their needs in various domains (<i>e.g.</i>, design, healthcare), thereby streamlining the evidence-based decision-making processes of practitioners.</p>
EMPLOYMENT	<p>Adobe Research, San Jose, CA Jun 2024 – Oct 2024</p> <ul style="list-style-type: none">▪ Research intern (Mentor: Gromit Chan)<ul style="list-style-type: none">• Project: Persona-driven generative agents for design tools <p>Naver AI Lab, Seongnam, Korea Jun 2023 – Sep 2023</p> <ul style="list-style-type: none">▪ Research intern (Mentor: Young-Ho Kim)<ul style="list-style-type: none">• Project: Personalizing evidence-based exercise plans with LLMs <p>Elecle, Seoul, Korea Apr 2020 – Jun 2021</p> <ul style="list-style-type: none">▪ iOS developer
PUBLICATIONS	<p>CONFERENCE & JOURNAL PAPER</p> <p>[P11] Genomic Data Processing with GenomeFlow Junseok Park, Eduardo A. Maury, Changhoon Oh, Donghoon Shin, Danielle Denisko, Eunjung Alice Lee <i>BMC Bioinformatics</i>, 2024.</p> <p>[P10] From Paper to Card: Transforming Design Implications with Generative AI Donghoon Shin, Lucy Lu Wang, Gary Hsieh <i>CHI 2024</i>. (26.4% acceptance rate)</p> <p>[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 <i>CHI 2024</i>. (26.4% acceptance rate)</p> <p>[P8] DiaryMate: Understanding User Perceptions and Experience in Human-AI Collaboration for Personal Journaling Taewan Kim, Donghoon Shin, Young-Ho Kim, Hwajung Hong <i>CHI 2024</i>. (26.4% acceptance rate)</p> <p>[P7] PlanFitting: Tailoring Personalized Exercise Plans with Large Language Models Donghoon Shin, Gary Hsieh, Young-Ho Kim <i>arXiv preprint</i>.</p>

- [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. (27.6% acceptance rate)
- [P5] How Older Adults Use Online Videos for Learning
Seoyoung Kim, **Donghoon Shin**, Jeongyeon Kim, Sunwoo Kim, Juho Kim
CHI 2023. (27.6% acceptance rate)
- [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. (24.3% acceptance rate)
🏆 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

- [D2] AmslerTouch: Self-testing Amsler Grid Application for Supporting a Quantitative Report of Age-related Macular Degeneration Symptoms
Donghoon Shin
HCIK 2022.
- [D1] An Analysis of K-MOOC Learners' Data and an Investigation of Its Future Applications
 Seoyoung Kim, Sunwoo Kwon, **Donghoon Shin**, Juho Kim
Issue paper of Korea's National Institute for Lifelong Education, 2019.

PATENT

- [C1] Method and Apparatus for Mimicking Conversational Style Mar 2021
 Youjin Hwang, Joonhwan Lee, **Donghoon Shin**
 Republic of Korea Patent (10-2021-0032858)

AWARDS & HONORS

- Graduate School Conference Presentation Award**, University of Washington 2023
 ▪ Conference presentation award for presenting a paper at the CHI conference
- Korean Government Scholar for Overseas Study**, Republic of Korea 2022 – 2024
 ▪ Around 50 postgrads selected annually
- Graduate School Fellowship**, University of Washington 2022
 ▪ Scholarship awarded by the department to the selected incoming Ph.D. students
- Gary Marsden Travel Award**, ACM SIGCHI 2022
 ▪ Travel grant for attending the CHI conference
- Special Recognition for Outstanding Reviews**, ACM CHI 2022 2021
 ▪ Recognition for the paper review
- Honorable Mention Award**, ACM CHI 2020 2020
 ▪ Selected among the top 5% of paper submissions
- Presidential Science Scholarship**, Republic of Korea 2020 – 2021
 ▪ Merit-based scholarship for undergraduate studies funded by the Korean government
 ▪ Around 150 undergrads selected annually
- Conference and Travel Scholarship**, Google 2020
 ▪ Travel grant for attending the CHI conference (travel canceled due to COVID-19)
- Best Undergraduate Research Award**, Seoul National University 2020
 ▪ Ranked 1st among all the undergraduate research projects in 2019
- Undergraduate Research Grant**, Seoul National University 2019, 2021
 ▪ \$5,000 research grant
 • Designing an AI support for assisting in group counseling for managing anxiety (2021)
 • Designing a collaborative mobile AAC system for children with developmental disabilities (2019)
- Merit-based Scholarship**, Seoul National University 2016, 2017
 ▪ Undergraduate merit-based scholarship

INVITED TALK	Azure , Microsoft	Jun 2024
	▪ AI-assisted causal pathway diagramming for human-centered design	
	Dept. of Computer Science & Engineering , Seoul National University	May 2024
	▪ AI-assisted translational science for designers	
	HCI Theory and Practice (2114.408A) , Seoul National University	Apr 2022
	▪ Designing and building AI-assisted support for online mental health communities	
TEACHING EXPERIENCE	Dept. of Information Science & Culture , Seoul National University	Oct 2018
	▪ Introduction to iOS programming	
	Dept. of Information Science & Culture , Seoul National University	Apr 2020
	▪ Running an HCI research project as an undergrad	
	Graduate Teaching Assistant , University of Washington	
	▪ HCDE 511: Information Visualization (Winter 2024)	
RESEARCH EXPERIENCE	▪ HCDE 538: Designing For Behavior Change (Fall 2023)	
	Undergraduate Teaching Assistant , Seoul National University	
	▪ L0444.000400: Basic Computing (Summer 2021)	
	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
SERVICES	▪ Undergraduate research intern (Mentor: Joonhwan Lee)	
	Program Committee	
	▪ ACM CHI (2024)	
	Reviewer	
	▪ ACM CHI (2020 – 2024)	
	▪ ACM CSCW (2024)	
MENTORSHIP	▪ ACM DIS (2023)	
	▪ ACM MobileHCI (2021)	
	▪ Journal of Medical Internet Research (2021)	
	Ph.D. Student Admission Reviewer , UW HCDE	2022
	▪ Student reviewer for the Ph.D. admission	
	Student Volunteer	
REFERENCES	▪ ACM ISS (2021)	
	Tony Zhou , Undergraduate student at UW CSE	2024
	Subin Jo , Undergraduate student at UW HCDE	2024
	Ivy Tseng , Masters student at UW MHCI+D	2024
	Yung-Jan Chang , Masters student at UW HCDE	2024
	Shin Hu , Undergraduate student at UW iSchool	2024
REFERENCES	Ruijingya Tang , Masters student at UW HCDE	2024
	Gary Hsieh	

- Associate Professor, University of Washington

Lucy Lu Wang

- Assistant Professor, University of Washington

Joonhwan Lee

- Professor, Seoul National University

[Last update: July 22, 2024]