

# Donghoon Shin

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EDUCATION	<p><b>University of Washington</b>, Seattle, WA Sep 2022 –</p> <ul style="list-style-type: none"><li>Ph.D., Human Centered Design &amp; Engineering</li><li>M.S., Human Centered Design &amp; Engineering (concurrent with Ph.D.)<ul style="list-style-type: none"><li>Advisor: Profs. Gary Hsieh &amp; Lucy Lu Wang</li></ul></li></ul> <p><b>Seoul National University</b>, Seoul, Korea Mar 2016 – Aug 2022</p> <ul style="list-style-type: none"><li>B.S., Electrical &amp; Computer Engineering, Information Science<ul style="list-style-type: none"><li>Graduated <i>cum laude</i></li></ul></li></ul>
RESEARCH INTERESTS	<p>My research lies at the intersection of <b>Human-Computer Interaction (HCI)</b> and <b>Natural Language Processing (NLP)</b>. 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><b>Adobe Research</b>, San Jose, CA Jun 2024 – Oct 2024</p> <ul style="list-style-type: none"><li>Research intern (Mentor: Gromit Chan)</li></ul> <p><b>Naver AI Lab</b>, Seongnam, Korea Jun 2023 – Sep 2023</p> <ul style="list-style-type: none"><li>Research intern (Mentor: Young-Ho Kim)</li></ul> <p><b>Elecle</b>, Seoul, Korea Apr 2020 – Jun 2021</p> <ul style="list-style-type: none"><li>iOS developer</li></ul>
PUBLICATIONS	<p><b>CONFERENCE &amp; JOURNAL PAPER</b></p> <p>[P11] Genomic Data Processing with GenomeFlow Junseok Park, Eduardo A. Maury, Changhoon Oh, <b>Donghoon Shin</b>, Danielle Denisko, Eunjung Alice Lee <i>BMC Bioinformatics</i>, 2024.</p> <p>[P10] From Paper to Card: Transforming Design Implications with Generative AI <b>Donghoon Shin</b>, 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 <b>Ruican Zhong*</b>, <b>Donghoon Shin*</b>, 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, <b>Donghoon Shin</b>, 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 <b>Donghoon Shin</b>, Gary Hsieh, Young-Ho Kim <i>arXiv preprint</i>.</p> <p>[P6] IntroBot: Exploring the Use of Chatbot-assisted Familiarization in Online Collaborative Groups <b>Donghoon Shin</b>, Soomin Kim, Ruoxi Shang, Joonhwan Lee, Gary Hsieh</p>

*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

**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

Apr 2023

- Conference presentation award for presenting a paper at the CHI conference

**Korean Government Scholar for Overseas Study**, Republic of Korea

Sep 2022 – Jun 2024

- Around 50 postgrads selected annually

**Graduate School Fellowship**, University of Washington

Jun 2022

- Scholarship awarded by the department to the selected incoming Ph.D. students

**Gary Marsden Travel Award**, ACM SIGCHI

Apr 2022

- Travel grant for attending the CHI conference

**Special Recognition for Outstanding Reviews**, ACM CHI 2022

Nov 2021

- Recognition for the paper review

**Honorable Mention Award**, ACM CHI 2020

Apr 2020

- Selected among the top 5% of paper submissions

**Presidential Science Scholarship**, Republic of Korea

Mar 2020 – Nov 2021

- Merit-based scholarship for undergraduate studies funded by the Korean government
- Around 150 undergrads selected annually

**Conference and Travel Scholarship**, Google

Feb 2020

- Travel grant for attending the CHI conference (travel canceled due to COVID-19)

**Best Undergraduate Research Award**, Seoul National University

Jan 2020

- Ranked 1<sup>st</sup> among all the undergraduate research projects in 2019

**Undergraduate Research Grant**, Seoul National University

May 2019, May 2021

- \$5,000 research grant
  - Designing an AI support for assisting in group counseling for managing anxiety (May 2021)
  - Designing a collaborative mobile AAC system for children with developmental disabilities (May 2019)

**Merit-based Scholarship**, Seoul National University

Fall 2016, Fall 2017

- Undergraduate merit-based scholarship

**INVITED TALK**

**Azure**, Microsoft

Jun 2024

- AI-assisted causal pathway diagramming for human-centered design

	<b>Dept. of Computer Science &amp; Engineering</b> , Seoul National University	May 2024
	▪ AI-assisted translational science for designers	
	<b>HCI Theory and Practice (2114.408A)</b> , Seoul National University	Apr 2022
	▪ Designing and building AI-assisted support for online mental health communities	
	<b>Dept. of Information Science &amp; Culture</b> , Seoul National University	Oct 2018
	▪ Introduction to iOS programming	
	<b>Dept. of Information Science &amp; Culture</b> , Seoul National University	Apr 2020
	▪ Running an HCI research project as an undergrad	
<b>TEACHING EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> , University of Washington	
	▪ HCDE 511: Information Visualization (Winter 2024)	
	▪ HCDE 538: Designing For Behavior Change (Fall 2023)	
	<b>Undergraduate Teaching Assistant</b> , Seoul National University	
	▪ L0444.000400: Basic Computing (Summer 2021)	
<b>RESEARCH EXPERIENCE</b>	<b>CoALA Lab &amp; Data Interaction Group</b> , Carnegie Mellon University	Nov 2020 – Jan 2022
	▪ Undergraduate research intern (Mentor: Kenneth Holstein & Adam Perer)	
	<b>HCI+d Lab</b> , Seoul National University	Aug 2019 – Oct 2020
	▪ Undergraduate research intern (Mentor: Joonhwan Lee)	
<b>SERVICES</b>	<b>Program Committee</b>	
	▪ ACM CHI (2024)	
	<b>Reviewer</b>	
	▪ ACM CHI (2020 – 2024)	
	▪ ACM CSCW (2024)	
	▪ ACM DIS (2023)	
	▪ ACM MobileHCI (2021)	
	▪ Journal of Medical Internet Research (2021)	
	<b>Ph.D. Student Admission Reviewer</b> , UW HCDE	Dec 2022
	▪ Student reviewer for the Ph.D. admission	
	<b>Student Volunteer</b>	
	▪ ACM ISS (2021)	
<b>MENTORSHIP</b>	<b>Tony Zhou</b> , Undergraduate student at UW CSE	2024
	<b>Subin Jo</b> , Undergraduate student at UW HCDE	2024
	<b>Ivy Tseng</b> , Masters student at UW MHCI+D	2024
	<b>Yung-Jan Chang</b> , Masters student at UW HCDE	2024
	<b>Shin Hu</b> , Undergraduate student at UW iSchool	2024
	<b>Ruijingya Tang</b> , Masters student at UW HCDE	2024
<b>REFERENCES</b>	<b>Gary Hsieh</b>	
	▪ Associate Professor, University of Washington	
	<b>Lucy Lu Wang</b>	

- Assistant Professor, University of Washington

**Joonhwan Lee**

- Professor, Seoul National University

*[Last update: July 22, 2024]*