

# Donghoon Shin

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EDUCATION	<b>University of Washington</b> , Seattle, WA	2022 – Present
	<ul style="list-style-type: none"><li>Ph.D., Human Centered Design and Engineering<ul style="list-style-type: none"><li>Advisor: Gary Hsieh &amp; Lucy Lu Wang</li></ul></li></ul>	
	<b>Seoul National University</b> , Seoul, Korea	2016 – 2022
	<ul style="list-style-type: none"><li>B.S., Electrical and Computer Engineering; B.A., Information Science<ul style="list-style-type: none"><li>Honors: Korean Presidential Science Scholar, cum laude</li></ul></li></ul>	
EMPLOYMENT	<b>Microsoft Research</b> , New York, NY	Jun 2025 – Sep 2025
	<ul style="list-style-type: none"><li>Research Intern (Mentor: Danielle Bragg)</li></ul>	
	<b>Google Research</b> , Seattle, WA	Dec 2024 – May 2025
	<ul style="list-style-type: none"><li>Student Researcher (Mentor: Anoop Sinha)</li></ul>	
	<b>Adobe Research</b> , San Jose, CA	Jun 2024 – Oct 2024
	<ul style="list-style-type: none"><li>Research Intern (Mentor: Gromit Chan)</li></ul>	
	<b>Naver AI</b> , Seongnam, Korea	Jun 2023 – Sep 2023
	<ul style="list-style-type: none"><li>Research Intern (Mentor: Young-Ho Kim)</li></ul>	
PUBLICATIONS	<b>Elecle</b> , Seoul, Korea	Apr 2020 – Jun 2021
	<ul style="list-style-type: none"><li>Software Engineer</li></ul>	
	CONFERENCE & JOURNAL PAPER	
	[P12] What About My Design Context?: Exploring the Use of Generative AI to Support Customization of Translational Research Artifacts	
	<b>Donghoon Shin</b> , Alex Chen, Gary Hsieh, Lucy Lu Wang	
	<i>DIS 2025.</i>	
	[P11] PlanFitting: Personalized Exercise Planning with Large Language Model-driven Conversational Agent	
	<b>Donghoon Shin</b> , Gary Hsieh, Young-Ho Kim	
	<i>CUI 2025.</i>	
	[P10] From Paper to Card: Transforming Design Implications with Generative AI	
	<b>Donghoon Shin</b> , Lucy Lu Wang, Gary Hsieh	
	<i>CHI 2024.</i>	
	[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>	
	[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>	
	[P7] IntroBot: Exploring the Use of Chatbot-assisted Familiarization in Online Collaborative Groups	
	<b>Donghoon Shin</b> , Soomin Kim, Ruoxi Shang, Joonhwan Lee, Gary Hsieh	
	<i>CHI 2023.</i>	

- [P6] How Older Adults Use Online Videos for Learning  
Seoyoung Kim, **Donghoon Shin**, Jeongyeon Kim, Sunwoo Kim, Juho Kim  
*CHI 2023*.
- [P5] Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making  
Katelyn Morrison, **Donghoon Shin**, Kenneth Holstein, Adam Perer  
*CSCW 2023*.
- [P4] AmslerTouch: Self-testing Amsler Grid Application for Supporting a Quantitative Report of AMD Symptoms  
**Donghoon Shin**  
*HCIK 2022*.
- [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)

#### PREPRINT

- [A3] Personality Editing for Language Models through Relevant Knowledge Editing  
Seojin Hwang, Yumin Kim, ByeongJeong Kim, **Donghoon Shin**, Hwanhee Lee  
*arXiv preprint*, 2025.
- [A2] ImagineAR: AI-Assisted In-Situ Authoring in Augmented Reality  
Jaewook Lee, Filippo Aleotti, Diego Mazala, Guillermo Garcia-Hernando, Sara Vicente, Oliver James Johnston, Isabel Kraus-Liang, **Donghoon Shin**, Jon E. Froehlich, Gabriel Brostow, Jessica Van Brummelen  
*arXiv preprint*, 2025.
- [A1] Genomic Data Processing with GenomeFlow  
Junseok Park, Eduardo A. Maury, Changhoon Oh, **Donghoon Shin**, Danielle Denisko, Eunjung Alice Lee  
*arXiv preprint*, 2025.

#### 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)*

**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 (\$500)

**Korean Government Scholar for Overseas Study**, Republic of Korea 2022 – 2024

- Around 50 postgrads selected annually nationwide (\$80,000)

**Graduate School Fellowship**, University of Washington 2022

- Fellowship awarded to the selected incoming Ph.D. students (\$1,400)

**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

- Around 120 undergrads selected annually nationwide (\$20,000)

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

**Undergraduate Research Grant**, Seoul National University 2019, 2021

- Research grant for undergraduate research projects (\$5,000)

**Merit-based Scholarship**, Seoul National University 2016, 2017

- Undergraduate merit-based scholarship

<b>INVITED TALK</b>	<b>LLM Seminar (OMSCS 8001)</b> , Georgia Tech	Jun 2025
	▪ Generative AI for translational science and design	
	<b>DxD Lab</b> , KAIST	Jun 2025
	▪ Generative AI for translational science and design	
	<b>Graduate School of AI</b> , Chung-Ang University	Jun 2025
	▪ Generative AI for translational science and design	
	<b>Graduate School of Information</b> , Yonsei University	Jun 2025
	▪ Generative AI for translational science and design	
	<b>HCI+d Lab</b> , Seoul National University	Jun 2025
	▪ Generative AI for translational science and design	
	<b>Azure</b> , Microsoft	Jun 2024
	▪ AI-assisted causal pathway diagramming for human-centered design	
<b>TEACHING EXPERIENCE</b>	<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 an AI-assisted support for online mental health communities	
	<b>Dept. of Information Science</b> , Seoul National University	Apr 2020
	▪ Conducting an HCI research project as an undergrad	
	<b>Dept. of Information Science</b> , Seoul National University	Oct 2018
	▪ Introduction to iOS programming	
	<b>Graduate Teaching Assistant</b> , University of Washington	
	▪ HCDE 310: Interactive Systems Design And Technology (Spring 2025)	
	▪ HCDE 351: UX Prototyping Techniques (Winter 2025)	
	▪ HCDE 438: Web Technologies (Autumn 2024)	
<b>RESEARCH EXPERIENCE</b>	▪ 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>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>Program Committee</b>	
	▪ ACM CHI (2024, 2025), ACM IUI (2025)	
	<b>Reviewer</b>	
	▪ ACM UIST (2025), ACM CHI (2020 – 2025), ACM DIS (2023, 2025), ACM IUI (2025), ACM CSCW (2024), ACM MobileHCI (2021), JMIR (2021)	
<b>SERVICES</b>	<b>Ph.D. Student Admission Reviewer</b> , UW HCDE	2022
	<b>Student Volunteer</b>	
	▪ ACM ISS (2020)	

MENTORSHIP	<b>Gloria Guo</b> , Master’s student at UW HCDE	2024 – Present
	<b>Tony Zhou</b> , Undergraduate student at UW CSE	2024 – Present
	<b>Subin Jo</b> , Undergraduate student at UW HCDE	2024
	<b>Ivy Tseng</b> , Master’s student at UW MHCI+D	2024
	<b>Yung-Jan Chang</b> , Master’s student at UW HCDE	2024
	<b>Shin Hu</b> , Undergraduate student at UW iSchool	2024
	<b>Rebecca Tang</b> , Master’s student at UW HCDE	2024

PRESS COVERAGE	<b>The Research behind Project Get Savvy: A team of expert AI agents helps marketers design powerful campaigns</b> , Adobe Research
	서울대학교 전기정보공학부 전공소개, Seoul National University

REFERENCES	<b>Gary Hsieh</b>
	▪ Associate Professor, University of Washington
	<b>Lucy Lu Wang</b>
	▪ Assistant Professor, University of Washington
	<b>Joonhwan Lee</b>
	▪ Professor, Seoul National University

[Last update: May 27, 2025]