Donghoon Shin

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EDUCATION	**University of Washington**, Seattle, WA	2022 – Present

- Ph.D., Human Centered Design and Engineering
  - Advisor: Gary Hsieh & Lucy Lu Wang

Seoul National University, Seoul, Korea 2016 – 2022

- B.S., Electrical and Computer Engineering; B.A., Information Science
  - Honors: Korean Presidential Science Scholar, cum laude

EMPLOYMENT

Microsoft Research, New York, NY Jun 2025 – Sep 2025
- Research Intern (Mentor: Danielle Bragg)

Google Research, Seattle, WA Dec 2024 – May 2025
- Student Researcher (Mentor: Anoop Sinha)

Adobe Research, San Jose, CA Jun 2024 – Oct 2024
- Research Intern (Mentor: Gromit Chan)

Naver AI, Seongnam, Korea Jun 2023 – Sep 2023
- Research Intern (Mentor: Young-Ho Kim)

Elecle, Seoul, Korea Apr 2020 – Jun 2021
- Software Engineer

PUBLICATIONS

CONFERENCE & JOURNAL PAPER

[P12] What About My Design Context?: Exploring the Use of Generative AI to Support Customization of Translational Research Artifacts
Donghoon Shin, Alex Chen, Gary Hsieh, Lucy Lu Wang
DIS 2025.

[P11] PlanFitting: Personalized Exercise Planning with Large Language Model-driven Conversational Agent
Donghoon Shin, Gary Hsieh, Young-Ho Kim
CUI 2025.

[P10] From Paper to Card: Transforming Design Implications with Generative AI
Donghoon Shin, Lucy Lu Wang, Gary Hsieh
CHI 2024.

[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.

[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.

[P7] IntroBot: Exploring the Use of Chatbot-assisted Familiarization in Online Collaborative Groups
Donghoon Shin, Soomin Kim, Ruoxi Shang, Joonhwan Lee, Gary Hsieh
CHI 2023.

[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] ImaginateAR: 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 1st 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

INVITED TALK	**LLM seminar (OMSCS 8001)**, Georgia Tech	Jun 2025
	▪ Generative AI for translational science and design	
	Graduate School of AI, Chung-Ang University	Jun 2025
	▪ Generative AI for translational science and design	
	Graduate School of Information, Yonsei University	Jun 2025
	▪ Generative AI for translational science and design	
	HCI+d Lab, Seoul National University	Jun 2025
	▪ Generative AI for translational science and design	
	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 an AI-assisted support for online mental health communities	
	Dept. of Information Science, Seoul National University	Apr 2020
	▪ Conducting an HCI research project as an undergrad	
	Dept. of Information Science, Seoul National University	Oct 2018
	▪ Introduction to iOS programming	

TEACHING EXPERIENCE — **Graduate Teaching Assistant**, 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)
- HCDE 511: Information Visualization (Winter 2024)
- HCDE 538: Designing For Behavior Change (Fall 2023)

Undergraduate Teaching Assistant, Seoul National University
- L0444.000400: Basic Computing (Summer 2021)

RESEARCH EXPERIENCE	**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)	

SERVICES — **Program Committee**
- ACM CHI (2024, 2025), ACM IUI (2025)

Reviewer
- ACM UIST (2025), ACM CHI (2020 – 2025), ACM DIS (2023, 2025), ACM IUI (2025), ACM CSCW (2024), ACM MobileHCI (2021), JMIR (2021)

	Ph.D. Student Admission Reviewer, UW HCDE	2022

Student Volunteer
- ACM ISS (2020)

MENTORSHIP	**Gloria Guo**, Master's student at UW HCDE	2024 – Present

Tony Zhou, Undergraduate student at UW CSE	2024 – Present
Subin Jo, Undergraduate student at UW HCDE	2024
Ivy Tseng, Master's student at UW MHCI+D	2024
Yung-Jan Chang, Master's student at UW HCDE	2024
Shin Hu, Undergraduate student at UW iSchool	2024
Rebecca Tang, Master's student at UW HCDE	2024

PRESS COVERAGE

The Research behind Project Get Savvy: A team of expert AI agents helps marketers design powerful campaigns, Adobe Research

서울대학교 전기정보공학부 전공소개, Seoul National University

REFERENCES

Gary Hsieh
- Associate Professor, University of Washington

Lucy Lu Wang
- Assistant Professor, University of Washington

Joonhwan Lee
- Professor, Seoul National University

[*Last update: May 19, 2025*]