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

University of Washington, Seattle, WA 2022 – 2024

- M.S., Human Centered Design and Engineering (concurrent with Ph.D.)

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 (Host: Emily Tseng)

Google Research, Seattle, WA Dec 2024 – May 2025

- Student Researcher (Host: Anoop Sinha)

Adobe Research, San Jose, CA Jun 2024 – Oct 2024

- Research Intern (Host: Gromit Yeuk-Yin Chan)

Naver AI, Seongnam, Korea Jun 2023 – Sep 2023

- Research Intern (Host: Young-Ho Kim)

Elecle, Seoul, Korea Apr 2020 – Jun 2021

- Software Engineer

PUBLICATIONS

CONFERENCE & JOURNAL PAPER

[P14] PosterMate: Audience-driven Collaborative Persona Agents for Poster Design
Donghoon Shin, Daniel Lee, Gary Hsieh, Gromit Yeuk-Yin Chan
ACM UIST 2025.

[P13] 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
ACM UIST 2025.

[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
ACM DIS 2025.

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

[P10] From Paper to Card: Transforming Design Implications with Generative AI
Donghoon Shin, Lucy Lu Wang, Gary Hsieh
ACM 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
ACM 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
ACM 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
ACM CHI 2023.

[P6] How Older Adults Use Online Videos for Learning
Seoyoung Kim, **Donghoon Shin**, Jeongyeon Kim, Sunwoo Kim, Juho Kim
ACM CHI 2023.

[P5] Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making
Katelyn Morrison, **Donghoon Shin**, Kenneth Holstein, Adam Perer
ACM 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
ACM 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
ACM CHI 2020.
🏅 **Honorable Mention Award** (top 5% among all submissions)

POSTER & WORKSHOP PAPER

[W9] Personality Editing for Language Models through Relevant Knowledge Editing
Seojin Hwang, Yumin Kim, ByeongJeong Kim, **Donghoon Shin**, Hwanhee Lee
EMNLP 2025 Workshop. (Exploring Active and Passive LLM Personalization)

[W8] ThematicPlane: Bridging Tacit User Intent and Latent Spaces for Image Generation
Daniel Lee, Nikhil Sharma, **Donghoon Shin**, DaEun Choi, Harsh Sharma, Jeonghwan Kim, Heng Ji
ACM UIST 2025 Adjunct. (Poster)

[W7] DiaryMate: Exploring the Roles of Large Language Models in Facilitating AI-mediated Journaling
Taewan Kim, **Donghoon Shin**, Young-Ho Kim, Hwajung Hong
ACM 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
ACM 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
ACM 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
ACM 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
ACM 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
ACM CHI 2020 Workshop. (Conversational Agents for Health and Wellbeing)

PREPRINT & UNDER REVIEW

[A4] ReFinE: Streamlining UI Mockup Iteration with Research Findings
Donghoon Shin, Bingcan Guo, Jaewook Lee, Lucy Lu Wang, Gary Hsieh
Under review.

[A3] Unpacking Design Homogenization in Vibe Coding: An Empirical Study of LLMs for Localization
Donghoon Shin, Alice Gao, Rock Yuren Pang, Jaewook Lee, Katharina Reinecke, Emily Tseng
Under review.

[A2] PaperTok: Exploring the Use of Generative AI for Creating Short-form Videos for Research Communication
Meziah Ruby Cristobal*, **Hyeonjeong Byeon***, **Tze-Yu Chen***, **Ruoxi Shang***, **Donghoon Shin***, **Ruican Zhong***, **Tony Zhou***, Gary Hsieh
*co-first authorship
Under review.

[A1] Genomic Data Processing with GenomeFlow
Junseok Park, Eduardo Maury, Changhoon Oh, **Donghoon Shin**, Danielle Denisko, Eunjung Alice Lee
arXiv preprint, 2025.

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, 2025
- 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	**FATE Group**, Microsoft Research	Oct 2025
	LLM Seminar (OMSCS 8001), Georgia Tech	Jun 2025
	DxD Lab, KAIST	Jun 2025
	Graduate School of AI, Chung-Ang University	Jun 2025
	Graduate School of Information, Yonsei University	Jun 2025
	HCI+d Lab, Seoul National University	Jun 2025
	Azure, Microsoft	Jun 2024
	Dept. of Computer Science & Engineering, Seoul National University	May 2024
	HCI Theory and Practice (2114.408A), Seoul National University	Apr 2022
	Dept. of Information Science, Seoul National University	Oct 2018, Apr 2020

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**

SERVICES

Program Committee
- ACM CHI (2024 – 2025), ACM IUI (2025 – 2026)

Reviewer
- ACM UIST (2025), ACM CHI (2020 – 2025), ACM DIS (2023, 2025), ACM IUI (2025 – 2026), 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

MEDIA 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
- Professor, University of Washington

Lucy Lu Wang
- Assistant Professor, University of Washington

Joonhwan Lee
- Professor, Seoul National University

[*Last update: September 25, 2025*]