Donghoon Shin

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EDUCATION

University of Washington, Seattle, WA — Sep 2022 –
- Ph.D., Human Centered Design & Engineering
- M.S., Human Centered Design & Engineering (concurrent with Ph.D.)
  - Advisor: Profs. Gary Hsieh & Lucy Lu Wang

Seoul National University, Seoul, Korea — Mar 2016 – Aug 2022
- B.S., Electrical & Computer Engineering, Information Science
  - Graduated *cum laude*

RESEARCH INTERESTS

Human-Computer Interaction (HCI)
- Generative AI, Translational Science, Design, Conversational AI.

EMPLOYMENT

Adobe Research, San Jose, CA — Jun 2024 – Sep 2024
- Research intern (Mentor: Gromit Chan)

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

Elecle, Seoul, Korea — Apr 2020 – Jun 2021
- iOS developer

PUBLICATIONS

CONFERENCE & JOURNAL PAPER

[P10] From Paper to Card: Transforming Design Implications with Generative AI
Donghoon Shin, Lucy Lu Wang, Gary Hsieh
CHI 2024. (26.4% acceptance rate)

[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. (26.4% acceptance rate)

[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. (26.4% acceptance rate)

[P7] PlanFitting: Tailoring Personalized Exercise Plans with Large Language Models
Donghoon Shin, Gary Hsieh, Young-Ho Kim
arXiv preprint.

[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 — 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 1st 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

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

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

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of Washington
- 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)

Reviewer
- ACM CHI (2020 – 2024)
- ACM CSCW (2024)
- ACM DIS (2023)
- ACM MobileHCI (2021)
- Journal of Medical Internet Research (2021)

Ph.D. Student Admission Reviewer, UW HCDE — Dec 2022
- Student reviewer for the Ph.D. admission

Student Volunteer
- ACM ISS (2021)

MENTORSHIP

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

Ruijingya Tang, Masters student at UW HCDE — 2024

REFERENCES

Gary Hsieh
- Associate Professor, University of Washington

Lucy Lu Wang
- Assistant Professor, University of Washington

Joonhwan Lee
- Professor, Seoul National University

[*Last update: June 3, 2024*]