

# 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, Republic of Korea

Mar 2016 – Aug 2022

- B.S., Electrical & Computer Engineering, Information Science
  - Graduated *cum laude*

## RESEARCH INTERESTS

**Human-Computer Interaction (HCI)**

- Human-AI Collaboration, Generative AI, Translational Science, Conversational Agent.

## RESEARCH EXPERIENCE

**Adobe Research**, San Jose, CA

Summer 2024

- Incoming research intern (Mentor: Gromit Yeuk-Yin Chan)

**Naver AI Lab**, Seongnam, Korea

Summer 2023

- Research intern (Mentor: Young-Ho Kim)

**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)

## PUBLICATIONS

### CONFERENCE & JOURNAL PAPER

[P10] From Paper to Card: Transforming Design Implications with Generative AI

**Donghoon Shin**, Lucy Lu Wang, Gary Hsieh

*CHI 2024. (to appear)*

[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. (to appear)*

[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. (to appear)*

[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.*

[P5] How Older Adults Use Online Videos for Learning

Seoyoung Kim, **Donghoon Shin**, Jeongyeon Kim, Sunwoo Kim, Juho Kim

CHI 2023.

- [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.  
 **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

|                            |   |          |
|----------------------------|---|----------|
|                            | <p>[D2] AmslerTouch: Self-testing Amsler Grid Application for Supporting a Quantitative Report of Age-related Macular Degeneration Symptoms<br/> <b>Donghoon Shin</b><br/> <i>HCIK 2022.</i></p> <p>[D1] An Analysis of K-MOOC Learners' Data and an Investigation of Its Future Applications<br/> Seoyoung Kim, Sunwoo Kwon, <b>Donghoon Shin</b>, Juho Kim<br/> <i>Issue paper of Korea's National Institute for Lifelong Education, 2019.</i></p>  |          |
| <b>PATENT</b>              | <p>[C1] Method and Apparatus for Mimicking Conversational Style<br/> Youjin Hwang, Joonhwan Lee, <b>Donghoon Shin</b><br/> Republic of Korea Patent (10-2021-0032858)</p>   | Mar 2021 |
| <b>AWARDS &amp; HONORS</b> | <p><b>Graduate School Conference Presentation Award</b>, University of Washington<br/> ▪ Conference presentation award for presenting a paper at the CHI conference<br/> Apr 2023</p> <p><b>Korean Government Scholar for Overseas Study</b>, Republic of Korea<br/> ▪ Around 50 postgrads selected annually<br/> Sep 2022 – Jun 2024</p> <p><b>Graduate School Fellowship</b>, University of Washington<br/> ▪ Scholarship awarded by the department to the selected incoming Ph.D. students<br/> Jun 2022</p> <p><b>Gary Marsden Travel Award</b>, ACM SIGCHI<br/> ▪ Travel grant for attending the CHI conference<br/> Apr 2022</p> <p><b>Special Recognition for Outstanding Reviews</b>, ACM CHI 2022<br/> ▪ Recognition for the paper review<br/> Nov 2021</p> <p><b>Honorable Mention Award</b>, ACM CHI 2020<br/> ▪ Selected among the top 5% of paper submissions<br/> Apr 2020</p> <p><b>Presidential Science Scholarship</b>, Republic of Korea<br/> ▪ Merit-based scholarship for undergraduate studies funded by the Korean government<br/> ▪ Around 150 undergrads selected annually<br/> Mar 2020 – Nov 2021</p> <p><b>Conference and Travel Scholarship</b>, Google<br/> ▪ Travel grant for attending the CHI conference (travel canceled due to COVID-19)<br/> Feb 2020</p> <p><b>Best Undergraduate Research Award</b>, Seoul National University<br/> ▪ Ranked 1<sup>st</sup> among all the undergraduate research projects in 2019<br/> Jan 2020</p> <p><b>Undergraduate Research Grant</b>, Seoul National University<br/> ▪ \$5,000 research grant<br/> • Designing a mobile system for supporting a group counseling for managing anxiety (May 2021)<br/> • Designing a collaborative AAC system for children with developmental disabilities (May 2019)<br/> May 2019, May 2021</p> <p><b>Merit-based Scholarship</b>, Seoul National University<br/> ▪ Undergraduate merit-based scholarship<br/> Fall 2016, Fall 2017</p> |          |
| <b>TEACHING EXPERIENCE</b> | <p><b>Teaching Assistant</b>, University of Washington<br/> ▪ HCDE 511: Information Visualization (Winter 2024)<br/> ▪ HCDE 538: Designing For Behavior Change (Fall 2023)</p> <p><b>Invited Keynote</b>, 2114.408A: HCI Theory and Practice<br/> Apr 2022</p> <p><b>Undergraduate Teaching Assistant</b>, L0444.000400: Basic Computing<br/> Summer 2021</p>   |          |

|                        |  |                                      |
|------------------------|--|--------------------------------------|
|                        | <b>Invited Keynote</b> , Dept. of Information Science & Culture<br><ul style="list-style-type: none"> <li>Undergraduate seminar <ul style="list-style-type: none"> <li>Introduction to iOS Programming (Oct 2018), Doing the HCI research as an undergrad (Apr 2020)</li> </ul> </li> </ul>  | Oct 2018, Apr 2020                   |
| <b>WORK EXPERIENCE</b> | <b>iOS developer</b> , elecle<br><ul style="list-style-type: none"> <li>Korean electric-bike sharing service startup</li> </ul>  | Apr 2020 – Jun 2021                  |
| <b>SERVICES</b>        | <b>Program Committee</b> <ul style="list-style-type: none"> <li>ACM CHI (2024)</li> </ul> <b>Reviewer</b> <ul style="list-style-type: none"> <li>ACM CHI (2020 – 2024)</li> <li>ACM CSCW (2024)</li> <li>ACM DIS (2023)</li> <li>ACM MobileHCI (2021)</li> <li>Journal of Medical Internet Research (2021)</li> </ul> <b>Ph.D. Student Admission Reviewer</b> , UW HCDE <ul style="list-style-type: none"> <li>Student reviewer for the Ph.D. admission</li> </ul> <b>Student Volunteer</b> <ul style="list-style-type: none"> <li>MobileHCI (2021)</li> </ul> | Dec 2022                             |
| <b>MENTORSHIP</b>      | <b>Subin Jo</b> , Undergraduate student at UW<br><b>Ivy Tseng</b> , Masters student at UW MHCI+D<br><b>Yung-Jan Chang</b> , Masters student at UW HCDE<br><b>Shin Hu</b> , Undergraduate student at UW iSchool<br><b>Ruijingya Tang</b> , Masters student at UW HCDE   | 2024<br>2024<br>2024<br>2024<br>2024 |
| <b>REFERENCES</b>      | <b>Gary Hsieh</b> <ul style="list-style-type: none"> <li>Associate Professor, University of Washington</li> </ul> <b>Lucy Lu Wang</b> <ul style="list-style-type: none"> <li>Assistant Professor, University of Washington</li> </ul> <b>Joonhwan Lee</b> <ul style="list-style-type: none"> <li>Professor, Seoul National University</li> </ul>   |                                      |

[Last update: April 18, 2024]