

# Donghoon Shin

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EDUCATION	<p><b>University of Washington</b>, Seattle, WA Sep 2022 –</p> <ul style="list-style-type: none"><li>Ph.D., Human Centered Design &amp; Engineering<ul style="list-style-type: none"><li>Advisor: Profs. Gary Hsieh &amp; Lucy Lu Wang</li></ul></li></ul> <p><b>Seoul National University</b>, Seoul, Republic of Korea Mar 2016 – Aug 2022</p> <ul style="list-style-type: none"><li>B.S., Electrical &amp; Computer Engineering, Information Science<ul style="list-style-type: none"><li>Graduated <i>cum laude</i></li></ul></li></ul>
RESEARCH INTERESTS	<p><b>Human-Computer Interaction (HCI)</b></p> <ul style="list-style-type: none"><li>Human-AI Collaboration, Generative AI, Translational Science, Healthcare, Conversational Agent.</li></ul>
RESEARCH EXPERIENCE	<p><b>Adobe Research</b>, San Jose, CA Summer 2024</p> <ul style="list-style-type: none"><li>Incoming research intern (Mentor: Gromit Yeuk-Yin Chan)</li></ul> <p><b>Naver AI Lab</b>, Seongnam, Korea Summer 2023</p> <ul style="list-style-type: none"><li>Research intern (Mentor: Young-Ho Kim)</li></ul> <p><b>CoALA Lab &amp; Data Interaction Group</b>, Carnegie Mellon University Nov 2020 – Jan 2022</p> <ul style="list-style-type: none"><li>Undergraduate research intern (Mentor: Kenneth Holstein &amp; Adam Perer)</li></ul> <p><b>HCI+d Lab</b>, Seoul National University Aug 2019 – Oct 2020</p> <ul style="list-style-type: none"><li>Undergraduate research intern (Mentor: Joonhwan Lee)</li></ul>
PUBLICATIONS	<p><b>CONFERENCE &amp; JOURNAL PAPER</b></p> <p>[P10] From Paper to Card: Transforming Design Implications with Generative AI <b>Donghoon Shin</b>, Lucy Lu Wang, Gary Hsieh <i>CHI 2024</i>.</p> <p>[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>.</p> <p>[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>.</p> <p>[P7] PlanFitting: Tailoring Personalized Exercise Plans with Large Language Models <b>Donghoon Shin</b>, Gary Hsieh, Young-Ho Kim <i>arXiv 2023</i>.</p> <p>[P6] 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>.</p> <p>[P5] How Older Adults Use Online Videos for Learning Seoyoung Kim, <b>Donghoon Shin</b>, Jeongyeon Kim, Sunwoo Kim, Juho Kim <i>CHI 2023</i>.</p>

- [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

- [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.*

**UNDER REVIEW**

- [U1] PlanFitting: Tailoring Personalized Exercise Plans with Large Language Models  
**Donghoon Shin**, Gary Hsieh, Young-Ho Kim

**PATENT**

- [C1] Method and Apparatus for Mimicking Conversational Style  
Youjin Hwang, Joonhwan Lee, **Donghoon Shin**  
Republic of Korea Patent (10-2021-0032858) Mar 2021

**AWARDS &  
HONORS**

- Graduate School Conference Presentation Award**, University of Washington Apr 2023  
▪ Conference presentation award for presenting a paper at CHI conference
- Korean Government Scholarship for Overseas Study**, Republic of Korea Aug 2022  
▪ Merit-based scholarship for graduate studies funded by the Korean government  
▪ Around 50 recipients selected annually
- Graduate School Fellowship**, University of Washington Jun 2022  
▪ Selected by the department
- Gary Marsden Travel Award**, ACM SIGCHI Apr 2022  
▪ Travel grant for attending CHI 2022
- 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 2020 – 2021  
▪ Merit-based scholarship for undergraduate studies funded by the Korean government  
▪ Around 150 recipients are selected annually
- Conference and Travel Scholarship**, Google Feb 2020  
▪ Travel grant for attending CHI 2020 (travel canceled due to COVID-19)
- Best Undergraduate Research Award**, Seoul National University Jan 2020  
▪ Ranked 1<sup>st</sup> among all the undergraduate research projects in 2019
- Undergraduate Research Grant**, Seoul National University May 2019, May 2021  
▪ \$5,000 research grant  
▪ Designing a mobile system for supporting a group counseling for managing anxiety (May 2021)  
▪ Designing a collaborative AAC system for children with developmental disabilities (May 2019)
- Merit-based Scholarship**, Seoul National University Fall 2016, Fall 2017  
▪ Undergraduate merit-based scholarship

**TEACHING  
EXPERIENCE**

- Teaching Assistant**, University of Washington  
▪ HCDE 511: Information Visualization (Winter 2024)

- HCDE 538: Designing For Behavior Change (Fall 2023)

**Invited Keynote**, 2114.408A: HCI Theory and Practice Apr 2022

**Undergraduate Teaching Assistant**, L0444.000400: Basic Computing Summer 2021

**Invited Keynote**, Dept. of Information Science & Culture Oct 2018, Apr 2020

- Undergraduate seminar
  - Introduction to iOS Programming (Oct 2018), Doing the HCI research as an undergrad (Apr 2020)

## WORK EXPERIENCE

**iOS developer**, elecle Apr 2020 – Jun 2021

- Korean electric-bike sharing service startup

## SERVICES

### Program Committee

- CHI (2024)

### Reviewer

- CHI (2020 - 2024)
- DIS (2023)
- 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

- MobileHCI (2021)

## COMMUNITY SERVICES

**Wholsee**, Seoul, Republic of Korea Dec 2020 – Jan 2021

- A crowdfunded scholarship for supporting the higher education of low-income women

## SKILLS

**Languages:** Korean, English

**Programming:** Swift, Python, Javascript, Svelte, C++, Processing, etc.

**Designing:** Adobe Photoshop, Adobe Illustrator, Figma

**Others:** L<sup>A</sup>T<sub>E</sub>X, Microsoft PowerPoint / Word / Excel, etc.

## REFERENCES

### Gary Hsieh

- Associate Professor, University of Washington

### Lucy Lu Wang

- Assistant Professor, University of Washington

### Joonhwan Lee

- Professor, Seoul National University

[Last update: March 13, 2024]