

Donghoon Shin

Seoul National University
1 Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea
ssshyhy@snu.ac.kr | donghoon.io

EDUCATION **Seoul National University**, Seoul, Republic of Korea Mar 2016 – Present

- B.S. in Electrical and Computer Engineering
 - **Thesis:** Designing an Amsler Grid Self-testing Application for Supporting a Quantitative Report of Age-related Macular Degeneration symptoms
- B.A. in Information Science & Culture Studies (Interdisciplinary major)
- 2-year leave of absence for serving a mandatory social service (military duty of Korea)

RESEARCH INTERESTS **Human-Computer Interaction (HCI)**

- Computer-Supported Cooperative Work (CSCW), Accessibility, Healthcare, Learning at Scale, Conversational Agent, Human-AI Interaction.

PUBLICATIONS **CONFERENCE PAPER**

[1] 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: ACM Conference on Human Factors in Computing Systems (24.3% acceptance rate)
🏆 **Honorable Mention Award (top 5%)**

POSTER & WORKSHOP PAPER

[2] 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: ACM Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct (to appear)

[3] 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 on Conversational Agents for Health and Wellbeing

ISSUE PAPER

[4] 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 Korean National Institute for Lifelong Education 2019

WORK IN PROGRESS

[5] Facilitating Conversation between Strangers using a Chatbot with ML-infused Personalized Topic Suggestion based on Social Media Posts
Donghoon Shin, Sangwon Yoon, Soomin Kim, Joonhwan Lee

[6] Trkic G00gle: Why and How Users Game Translation Algorithms

[7] Understanding the Behavior of Older Adults in MOOC Platform

Advised by prof. Juho Kim

**RESEARCH
EXPERIENCE**

CoALA Lab, Carnegie Mellon University, Pittsburgh, PA Nov 2020 – Present

- Undergraduate research intern
- Advisor: Kenneth Holstein
 - Project: Calibrating trust and discretion in high-stakes human–AI collaborations

HCI+d Lab, Seoul National University, Seoul, Republic of Korea Jun 2018 – Oct 2020

- Undergraduate research intern
- Advisor: Joonhwan Lee
 - Personal project: Designing a collaborative mobile AAC system for caregivers of a child with developmental disabilities
 - Team projects: Various research and industry projects on conversational agents, user-centered design approaches, and HCI for marginalized groups

**RELEVANT
COURSEWORKS**

User-Centered Design, Dept. of Communication Fall 2020

- Designing an artifact that supports those who faced difficulties due to COVID-19

Design Thinking for Communication, Dept. of Communication Spring 2020

- Designing for leveraging interpersonal communication

Digital Ethnography, Dept. of Communication Spring 2020

- Tackling neighborhood issues with qualitative methodologies

Introduction to Information-Culture Technology, Dept. of Communication Fall 2017

- Designing and implementing projects dealing with the physical computing

**AWARDS &
HONORS**

Presidential Science Scholarship, Republic of Korea Jun 2020

- Scholarship granted to students with excellence and potential to contribute to the areas of science, engineering, and technologies
- Full scholarship (tuition & stipend) for undergraduate studies granted by the President of Republic of Korea

Best Paper Honorable Mention Award, CHI 2020 Apr 2020

- Selected among the top 5% of all submissions

Conference and Travel Scholarships, Google Apr 2020

- \$2,000 travel grant
 - Travel cancelled due to COVID-19
- Granted by Google

Undergraduate Research Award, Seoul National University Mar 2020

- President's award (1st place)
- Awarded by the Faculty of Liberal Education

Undergraduate Research Grant, Seoul National University Jul 2019 – Nov 2019

- \$5,000 research grant

- Granted by the Faculty of Liberal Education

Merit-based Scholarship, Seoul National University

Fall 2016, Fall 2017

- Undergraduate merit-based scholarship
 - Fall 2017 coverage later cancelled due to the full coverage granted by the Presidential Science Scholarship
- Granted by Seoul National University

ACADEMIC SERVICES

Reviewer of Conference Publications

- **CHI**: ACM Conference on Human Factors in Computing Systems 2020, 2021

Student Volunteer

- **ISS**: ACM International Conference on Interactive Surfaces and Spaces 2020

WORK EXPERIENCE

Nine2One Inc.

Apr 2019 – Present

- Electric mobility-sharing startup that runs the electric mobility-sharing service: Elecle
- Founding member / working as an iOS developer, UX designer

PROJECTS

Samsung Bixby: Intelligent Visual Identity Research

Jun 2020 – Sep 2020

- Setting up coherent visual identities for Bixby system (AI assistant targeted to various Samsung smart devices/home appliances)
- Collaborative project among Samsung Research, HCI+d Lab, and Yonsei university
- Worked as a visual-identity designer, developer

Juvis Chatbot

Feb 2020 – Jul 2020

- Developing chatbot agent for offering a health information & inducing an enrollment
- Collaborative project between HCI+d lab Lab and Juvis (Personal health-managing company)
- Worked as a front/back-end developer

BADA

Aug 2019 – Jan 2020

- Chatbot agent for supporting sexual crime victims
- Project in HCI+d Lab (funded by the Korean Police and the Ministry of Science and ICT)
- Worked as a system developer, designer

TalkingBoogie

May 2018 – Nov 2019

- Collaborative AAC system for non-verbal children with developmental disabilities and caregivers
- Personal project (funded by the Faculty of Liberal Education, Seoul National University)

SKILLS

LANGUAGES

- **Korean**: Native
- **English**: Fluent

PROGRAMMING

- **Swift**: Experienced in developing iOS, MacOS apps
- Python, HTML / CSS, C++, Java, Processing

DESIGNING

- Adobe Photoshop, Adobe Illustrator

OTHERS

- L^AT_EX, Microsoft PowerPoint, Microsoft Word, Microsoft Excel, etc.

REFERENCES

Kenneth Holstein

- Assistant Professor
- Human-Computer Interaction Institute, Carnegie Mellon University
- kenneth.holstein@gmail.com

Joonhwan Lee

- Professor
- College of Social Sciences, Seoul National University
- joonhwan@snu.ac.kr

Soojin Jun

- Associate Professor
- Graduate School of Communication and Arts, Yonsei University
- soojinjun@yonsei.ac.kr

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