

Sangwook Lee

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RESEARCH INTEREST

My interest lies in human-computer interaction (HCI), focusing on accessibility and social computing. I design systems that assist non-technical groups in utilizing modern technology powered by machine learning models. Recently, I have been exploring LLMs for their capacity to generate natural language explanations and human-like reasoning within these systems.

EDUCATION

KAIST

M.S. in Computer Science

- Advisor: Insik Shin

Daejeon, Korea
Sep. 2021 - Present

Pohang University of Science and Technology (POSTECH)

B.S. in Convergence IT Engineering (Cum Laude)

Pohang, Korea
Mar. 2014 - Aug. 2020

RESEARCH EXPERIENCE

SaNDwich Lab, University of Notre Dame

Visiting Student (Mentor: Toby Jia-Jun Li)

- Coordinated a study on a task-oriented multimodal agent system to improve older adults' smartphone experience
- Mentored two undergraduates to develop a conversational agent that interacts with mobile web applications powered by OpenAI API

South Bend, IN
Jun. 2023 - Aug. 2023

KIXLAB, KAIST

Research Intern (Mentor: Juho Kim, Jean Y. Song)

- Led research on a system that enables community moderators to configure rule-based moderation tools
- Conducted semi-structured interviews and user studies with Reddit moderators
- Developed a web app (React/Django) that tests rules with real-world posts, visualizing any issues and identifying posts that are potentially in violation or erroneous

Daejeon, Korea
Sep. 2020 - Sep. 2021

Human-Computer Interaction+Design Lab., Seoul National University

Research Intern (Mentor: Joonhwan Lee)

- Conducted a participatory design workshop with female gamers to address sexual harassment in online games

Seoul, Korea
Jul. 2017 - Aug. 2017

PUBLICATIONS

ModSandbox: Facilitating Online Community Moderation Through Error Prediction and Improvement of Automated Rules

Jean Y Song*, Sangwook Lee*, Jisoo Lee, Mina Kim, Juho Kim (*Equal Contribution)

CHI '23: Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems

LV-Linker: Supporting Fine-grained User Interaction Analyses by Linking Smartphone Log and Recorded Video Data

Hansoo Lee, **Sangwook Lee**, Youngji Koh, Uichin Lee

UIST '22 Adjunct: Adjunct Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology

A-mash: providing single-app illusion for multi-app use through user-centric UI mashup

Sunjae Lee, Hoyoung Kim, Sijung Kim, **Sangwook Lee**, Hyosu Kim, Jean Young Song, Steve Ko, Sangeun Oh, Insik Shin

MobiCom '22: Proceedings of the 28th Annual International Conference on Mobile Computing And Networking

Implications for the Design of Sexual Harassment Prevention System for Online Games


Wookjae Maeng, Hyeok Kim, Junhee Woo, Youngjin Huh, Seo-young Lee, Jeewon Choi, **Sangwook Lee**, Jinsu Eun, Kung Jin Lee, Joonhwan Lee

Proceedings of HCI Korea 2018

Mutiv: Music-based Mobile Application to Support Joggers

Sangwook Lee, Hyunggu Jung

2016 IEEE International Conference on Healthcare Informatics (ICHI)

LaneMate: Car sensing system for the deaf 

Sangwook Lee, Yunho Kang, Yukyoung Lee

CHI EA '16: Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems

HONORS AND AWARDS

Gary Marsden Travel Awards 2022
ACM SIGCHI

1st Place, The 5th Human Rights Research Projects Contest 2017
SNU Human Rights Center

Honorable Mention 2016
CHI 2016 Student Design Competition

PRESENTATION

Guest Talk - Leveraging NLP Models in Practice 20 Jul. 2023
Dynamic Graphics Project, University of Toronto, Canada

Paper Session 26 Apr. 2023
CHI 2023, Hamburg, Germany

Poster Session
UIST 2022, Bend, OR

30 Oct. 2022

TEACHING

Human-Computer Interaction

KAIST CS584 Teaching Assistant (Instructor: Geehyuk Lee)

Fall 2023

Operating Systems and Lab

KAIST CS330 Teaching Assistant (Instructor: Insik Shin)

Fall 2021

ACADEMIC SERVICES

- **On-site Student Volunteer** - CHI 2023
- **Online Student Volunteer** - CHI 2022, CHI 2021, CSCW 2020
- **Reviewer** - CSCW 2024, CHI 2023 LBW

SKILLS

Tools

- **Front-end** - React, React Native, Flutter
- **Back-end** - Express, Django, Fastify, Prisma
- **Data processing** - LangChain, Pandas, PyTorch, Plot.ly
- **Programming Language** - C, C++, JavaScript TypeScript, Python, R, Dart
- **Prototyping** - Figma, Arduino

Language

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