

# Sangwook Lee

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## RESEARCH INTEREST

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I study how **LLM-based agentic systems** can bridge knowledge gaps in collaborative environments by facilitating **context-aware communication and organizational learning**. My goal is to design intelligent systems that empower people to create, share, and utilize knowledge more effectively across organizational contexts.

## EDUCATION

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<b>Virginia Tech</b> <i>Ph.D. in Computer Science</i>	Blacksville, VA Aug. 2024 - Present
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <i>M.S. in Computer Science</i>	Daejeon, Korea Sep. 2021 - Feb. 2024
<ul style="list-style-type: none"><li>• Advisor: Sang Won Lee</li></ul> <b>Pohang University of Science and Technology (POSTECH)</b> <i>B.S. in Convergence IT Engineering (Cum Laude)</i>	A Task-Oriented Multimodal Agent System to Enhance Mobile User Interface Accessibility for Older Adults Pohang, Korea Mar. 2014 - Aug. 2020

## REFEREED JOURNALS AND CONFERENCE PROCEEDINGS

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### **CHOIR: A Chatbot-mediated Organizational Memory Leveraging Communication in University Research Labs**

Sangwook Lee, Adnan Abbas, Yan Chen, Young-Ho Kim, Sang Won Lee  
*CHI '26: Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (Conditionally Accepted)*

### **Toward Context-Aware and Personalized Sit-Stand Desk Interventions: Insights from a Field Observational Study**

Donghan Hu, Junghoon Chung, Daniel Vargas Diaz, Sangwook Lee, Sang Won Lee, Sol Lim  
*International Journal of Human–Computer Interaction (September 2025)*

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

Sangwook Lee\*, Jean Y Song\*, Jisoo Lee, Mina Kim, Juho Kim (\*Equal Contribution)  
*CHI '23: Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*

### **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

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## **LIGHTLY REVIEWED PAPERS - POSTERS, NOTES, AND WORKSHOP PAPERS**

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### **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*

### **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, Student Design Competition, Honorable Mention*

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## **RESEARCH EXPERIENCE**

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### **SaNDwich Lab, University of Notre Dame**

*Visiting Student (Mentor: Toby Jia-Jun Li)*

South Bend, IN

*Jun. 2023 - Aug. 2023*

- 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

### **KIXLAB, KAIST**

Daejeon, Korea

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

*Sep. 2020 - Sep. 2021*

- 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 application (React/Django) that tests rules with real-world posts, visualizing violations and identifying potentially erroneous cases

### **HCI+D Lab, Seoul National University**

Seoul, Korea

*Research Intern (Mentor: Joonhwan Lee)*

*Jul. 2017 - Aug. 2017*

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

## WORK EXPERIENCE

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### Fluiz, Inc.

Seoul, Korea

*Software Engineer (CEO: Insik Shin)*

*Feb. 2024 - Aug. 2024*

- Led the development of an intelligent workflow automation system for commercial ERP solutions, leveraging LLMs to capture and operationalize domain expertise
- Built a Chrome extension-based interaction recording tool enabling domain experts to easily translate business workflows into automation-ready data
- Designed an execution server that stores recorded workflows in a graph database and automates web-based tasks through multi-turn conversations

## SKILLS

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### Tools

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

### Language

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

## ACADEMIC SERVICES

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- Student Volunteer** - CHI 2025 (Photography SV), CHI 2024 (Photography SV), CHI 2023 (On-site), CHI 2022 (Remote), CHI 2021 (Remote), CSCW 2020 (Remote)
- Reviewer** - CHI 2026 (3 Outstanding Reviewer Recognitions), CSCW 2024, CHI 2023 LBW

## TEACHING

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### Data and Algorithm Analytics

Fall 2025

*VT CS4104 Teaching Assistant (Instructor: Thang Hoang)*

### Human-Computer Interaction

Fall 2023

*KAIST CS584 Teaching Assistant (Instructor: Geehyuk Lee)*

### Operating Systems and Lab

Fall 2021

*KAIST CS330 Teaching Assistant (Instructor: Insik Shin)*