# SANGWOOK LEE

Seoul, South Korea
He/His/Him

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## EDUCATION

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| **FUTURE**<br>AUG 2024<br>Blacksburg, VA | **Virginia Tech**<br>Ph.D. in Computer Science (Advisor: Sang Won Lee) |
| **FEB 2024**<br>SEP 2021<br>Daejeon, Korea | **Korea Advanced Institute of Science and Technology**<br>M.S. in Computer Science (Advisor: Insik Shin)<br>Thesis: A Task-Oriented Multimodal Agent System to Enhance Mobile User Interface Accessibility for Older Adults |
| **AUG 2020**<br>MAR 2014<br>Pohang, Korea | **Pohang University of Science and Technology**<br>B.S. in Convergence IT Engineering (Cum Laude) |

## WORK EXPERIENCE

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| **PRESENT**<br>FEB 2024<br>Seoul, Korea | **Fluiz, Inc.**<br>Software Engineer (CEO: Insik Shin)<br>• Leading the development of an intelligent process automation system, tailored for commercial ERP solutions, leveraging LLMs to enhance operational efficiency and flexibility.<br>• Designing and implementing a chatbot optimized for seamless integration with ERP systems, improving user accessibility and productivity. |

## RESEARCH

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| **JUN 2023**<br>AUG 2023<br>South Bend, IN | **SaNDwich Lab, University of Notre Dame**<br>Visiting Student (Mentor: Toby Jia-Jun Li)<br>• Coordinated a study on a task-oriented multimodal agent system to improve older adults' smartphone experience<br>• Mentored two undergraduates to develop a conversational agent that interacts with mobile web applications powered by OpenAI API |
| **SEP 2021**<br>SEP 2020<br>Daejeon, Korea | **KIXLAB, KAIST**<br>Research Intern (Mentor: Juho Kim, Jean Y. Song)<br>• Led research on a system that enables community moderators to configure rule-based moderation tools<br>• Conducted semi-structured interviews and user studies with Reddit moderators<br>• 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 |
| **AUG 2017**<br>JUL 2017<br>Seoul, Korea | **HCI+D Lab, Seoul National University**<br>Research Intern (Mentor: Joonhwan Lee)<br>• Conducted a participatory design workshop with female gamers to address sexual harassment in online games |

## EXPERTISE

**HCI Research**

*Semi-structured Interview*
*Thematic Analysis*
*Affinity Diagram*
*Open Coding*
*Heuristic Evaluation*
*Usability Testing*
*Participatory Design Workshop*

**UX Design**

*Graphical UI Design*
*Interaction Design*
*Participatory Design*
*Data Visualization*
*Lo-Fi Prototyping*
*Hi-Fi Prototyping*

**Tools**

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)*

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## PUBLICATION

1. **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*

2. **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*

3. **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*

4. **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*

5. **Mutiv: Music-based Mobile Application to Support Joggers**

   **Sangwook Lee**, Hyunggu Jung

   *2016 IEEE International Conference on Healthcare Informatics (ICHI)*

6. **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*

## AWARDS

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| OCT 2022 | Gary Marsden Travel Awards, SIGCHI, ACM |
| OCT 2017 | 1st Place, The 5th Human Rights Research Projects Contest, SNU, Korea |
| MAY 2016 | CHI 2016 Student Design Competition Honorable Mention, ACM |

## TEACHING

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| Fall 2023 | Human Computer Interaction, KAIST CS584, Instructor: Geehyuk Lee |
| Fall 2020 | Operating System, KAIST CS330, Instructor: Insik Shin |

## EXPERIENCE

**Student Volunteer**

*CHI 2024 (On-site)*
*CHI 2023 (On-site)*
*CHI 2022 (Remote)*
*CHI 2021 (Remote)*
*CSCW 2020 (Remote)*

**Reviewer**

*CSCW 2024*
*CHI 2023 LBW*

**Online Community**

*Clien (7 years)*
*DCInside (4 years)*
*Reddit (4 years)*