

Curriculum Vitae

Rachel Kim | 김정민

Email: rachel02@kaist.ac.kr | Website: www.racheljk.me

EDUCATION

Undergraduate, School of Computing, KAIST

Mar 2020 - Present

- Major: School of Computing / Minor: Culture Technology

Computer Science and Engineering, Politecnico di Milano

Feb 2023 - Aug 2023

- Exchange Student

RESEARCH EXPERIENCE

HCIL (HCI LAB), KAIST

Mar 2024 - Present

Undergraduate Research Intern

Advisor: Geehyuk Lee

- Accessibility & Haptics: Haptic device to help visually impaired people build spatial knowledge of smartphone applications.
- XR Interaction: Design guidelines for on-body interactions and gestural user interfaces in pervasive XR usage.

NMSL (NETWORKING & MOBILE SYSTEMS LAB), KAIST

Dec 2023 - Feb 2024

Undergraduate Research Intern

Advisor: Sung-Ju Lee

- Mobile Sensing: UWB sensing for personal mobility collision prevention.

SATLab (SMART ASSISTIVE TECHNOLOGY LAB), KAIST

Oct 2023 - Present

Undergraduate Research Intern

Advisor: Hyun Wook Ka

- Accessibility: Automated tactile graphics translation engine to convey color information to visually impaired people.

HCITech Lab, KAIST

Jun 2022 - May 2023

Undergraduate Research Intern

Advisor: Sang Ho Yoon

- Haptics & VR Interaction: Development of the haptic rendering algorithm and an in-situ haptic design toolkit to support haptic designers with intuitive interaction methods.

LAVA Lab (LIFELIKE AVATAR & AGENT LABORATORY), KAIST

Jan 2022 - Feb 2022

Undergraduate Research Intern

Advisor: Sung-Hee Lee

PUBLICATIONS

[IMWUT'23] HapticPilot: Authoring In-situ Hand Posture-Adaptive Vibrotactile Feedback for Virtual Reality (Youjin Sung, Rachel Kim, Kun Woo Song, Yitian Shao, Sang Ho Yoon)

[VRST'22 Poster] Exploring Vibration Intensity Map Of Hand Postures For Haptic Rendering In XR (Youjin Sung, Yitian Shao, Rachel Kim, Sang Ho Yoon)

HONORS & AWARDS

- 1st Place (Mayor's Award) in Sparcs Science Hackathon 2024** **Oct 2024**
- ALLeX: Web-based interactive XR platform for managing immersive chemistry lab classes for teachers and students.
 - Demonstrated at Daejeon Science Festival.
- National Excellence Scholarship, Korea Student Aid Foundation** **Fall 2022**
- National scholarship to students who showed excellence.
- Dean's List, KAIST** **Spring 2022**
- Awarded to top 3% among 2,900+ students in College of Engineering, KAIST

ACTIVITIES

- Student Volunteer, ACM CHI`24** **May 2024**
- Academic English Camp TA, KAIST** **Jan 2022 - Feb 2022, Feb 2024**
- Organized and facilitated camps for incoming freshmen with limited English proficiency.
- Student Council, School of Computing, KAIST** **Mar 2021 - Dec 2022**
- Festival Organizing Committee, KAIST** **Aug 2020 - Nov 2022**
- Organized 5 official school festivals.
 - Vice leader of the committee for the KAIST-Postech Science War. **Jan 2022 - Nov 2022**
- Buddy Program, KAIST** **Mar 2021 - Dec 2021**
- Helped foreign students to adjust well in KAIST.