

Curriculum Vitae

Rachel Kim | 김정민

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RESEARCH INTERESTS

Human-Computer-Interaction (HCI); Extended Reality (XR), Context-Aware Systems, Haptics

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.

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.

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 + 2M KRW) in Spares Science Hackathon 2024

Oct 2024

- ALLeX: Web-based interactive XR platform for managing immersive chemistry lab classes for teachers and students.

Undergraduate Research Grant (2M KRW), KAIST

Fall 2024

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 & Minority HRC (Human Rights Committee), KAIST**Jul 2024 - Present****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 Preparation Committee ("*Imagination Effect*"), 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.