

# Curriculum Vitae

**Rachel Kim | 김정민**

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

## 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

---

**2nd Place (Challenge Award + 500K KRW) in KAIST CT Startup Challenge**

**Dec 2024**

- HarmonyXR: Collaborative Music Creation Tool for Deaf and Hearing Producers

<b>1st Place (Mayor's Award + 2M KRW) in Spares Science Hackathon 2024</b>	<b>Oct 2024</b>
<ul style="list-style-type: none"> <li>• ALLeX: Web-based interactive XR platform for managing immersive chemistry lab classes for teachers and students.</li> </ul>	
<b>Undergraduate Research Grant (2M KRW), KAIST</b>	<b>Fall 2024</b>
<b>National Excellence Scholarship, Korea Student Aid Foundation</b>	<b>Fall 2022</b>
<ul style="list-style-type: none"> <li>• National scholarship to students who showed academic excellence.</li> </ul>	
<b>Dean's List, KAIST</b>	<b>Spring 2022</b>
<ul style="list-style-type: none"> <li>• Awarded to top 3% among 2,900+ students in College of Engineering, KAIST.</li> </ul>	

## ACTIVITIES

---

<b>Student &amp; Minority HRC (Human Rights Committee), KAIST</b>	<b>Jul 2024 - Present</b>
<b>Student Volunteer, ACM CHI'24</b>	<b>May 2024</b>
<b>Academic English Camp TA, KAIST</b>	<b>Jan 2022 - Feb 2022, Feb 2024</b>
<ul style="list-style-type: none"> <li>• Organized and facilitated camps for incoming freshmen with limited English proficiency.</li> </ul>	
<b>Student Council, School of Computing, KAIST</b>	<b>Mar 2021 - Dec 2022</b>
<b>Festival Preparation Committee ("<i>Imagination Effect</i>"), KAIST</b>	<b>Aug 2020 - Nov 2022</b>
<ul style="list-style-type: none"> <li>• Organized 5 official school festivals.</li> <li>• Vice leader of the committee for the KAIST-Postech Science War.</li> </ul>	<b>Jan 2022 - Nov 2022</b>
<b>Buddy Program, KAIST</b>	<b>Mar 2021 - Dec 2021</b>
<ul style="list-style-type: none"> <li>• Helped foreign students to adjust well in KAIST.</li> </ul>	