

# Curriculum Vitae

**Rachel Kim** | 김정민

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## EDUCATION

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**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

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**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

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[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

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**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.
- Awarded 2 million KRW, and 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

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**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.