

# Jeonghyun Kim

✉ jeonghyun.kim@kaist.ac.kr | 🐙 github.com/Jeonghyun109 | 🔗 linkedin.com/in/jeonghyun109/ | 🎓 Jeonghyun Kim

## Profile

Master's student at the Interactive Computing Lab, KAIST, supervised by Prof. Uichin Lee. Researching stress management systems that enhance self-awareness through wearable and mobile sensing. Interested in user-centered design, HCI, and well-being technologies.

## Research Interests

Human-Computer Interaction (HCI), Interactive Systems, Mental Health, and Personalized Computing.

## Education

### Korea Advanced Institute of Science & Technology (KAIST)

M.S. School of Computing

• Advisor: Prof. Uichin Lee, Interactive Computing Lab (ICLab)

Daejeon, Korea

Feb 2024–present

### Korea Advanced Institute of Science & Technology (KAIST)

B.S. School of Computing, Minor in Electrical Engineering

Daejeon, Korea

Feb 2018–Feb 2024

## Publications

(P: Preprint, U: Under review)

### P.1 Affectstream: Kafka-Based Real-Time Affect Monitoring System Using Wearable Sensors

Jeonghyun Kim, Duri Lee, and Uichin Lee.

Preprint

### U.1 HateBuffer: Safeguarding Content Moderators' Mental Well-Being through Hate Speech Content Modification

Subin Park\*, Jeonghyun Kim\*, Jeanne Choi, Joseph Seering, Uichin Lee, and Sung-Ju Lee.

Under Review

## Experience

### KAIST Interactive Computing Lab

Graduate Student, Advised by Uichin Lee

- Research on stress management systems that enhance self-awareness through wearable and mobile sensing
- Research a data streaming platform to support real-time affect monitoring using wearable sensor data
- Advisor: Prof. Uichin Lee, KAIST School of Science

Daejeon, Korea

Feb 2024 - Present

### KAIST HCI Lab

Undergraduate Individual Research

- Research on improving issues caused by the lack of haptic feedback in AR environments
  - Studied the effectiveness of haptic feedback in GUI button interactions within AR environments
  - Explored interaction design of depth-funneling gloves in AR environments
  - Researched enhancing haptic feedback of depth-funneling gloves
- Advisor: Prof. Geehyuk Lee, KAIST School of Computing

Daejeon, Korea

June 2021 - Dec 2021

### ReDWit, Development Team

CUop Internship

- Developed an in-house attendance management web service
- Redesigned and improved a Slack bot
- Implemented update features and fixed bugs for the electronic lab notebook service "GOONO"

Daejeon, Korea

Sep, 2022 – Dec, 2022

### ReDWit, Development Team

Internship

- Contributed to the GOONO 3.0 update, an electronic lab notebook service
- Integrated React Query into the project

Daejeon, Korea

Dec, 2021 – Feb, 2022

# Projects

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## Development of Human Digital Technologies for Prediction and Management of Emotion Worker’s Mental Health Risks

Institute for Information & communication Technology Planning & evaluation (IITP) Feb 2024 – Present

- Developing and validating an interactive human digital twin technology that simulates and synchronizes the mechanisms of individual stress risk factors in a virtual environment, in order to provide personalized stress risk management solutions for mitigating mental health risks caused by emotional labor.

## Development of a Customizable SaaS Platform for Enterprise Design Strategy Support

Korea Institute of Design Promotion (KIDP) Jan 2025 – Mar 2025

- Developing a SaaS platform that delivers customizable generative AI technologies to support design strategy formulation for enterprises, including platform service design, cloud-native infrastructure development, and real-world operational validation for continuous improvement

## KAIST Mad Camp

Daejeon, Korea

Hackathon program for intensive programming and startup

June 2020 – Aug 2020

- Developed a mobile app that provides contact, gallery, and weather information, [github](#)
  - Android Studio, Java
- Built a mobile SNS app inspired by Cyworld, [github](#)
  - Android Studio, Java, MySQL, node.js
- Created a movie search website categorizing films by continent, [github](#)
  - HTML, MySQL, node.js
- Developed a website introducing vegan restaurants in Korea, [github](#)
  - React, MongoDB, node.js

# Skills

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|-----------------------|--|
| Programming           | Python, Java, JavaScript, TypeScript, C/C++, C#  |
| Software & Frameworks | React.js, Node.js, Next.js, Android Studio, Pytorch, Unity3D, MongoDB, MySQL, Pytorch, Numpy, Scikit-learn |
| DevOps                | Docker, Kubernetes, AWS, Git   |
| Design & Research     | Figma, Qualitative & quantitative analysis for user study  |

# Teaching Experience

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## 2025 Winter Internship Program in Interactive Computing Lab

Teaching Assistant for Internship Program

- 2025 Winter
- Topic 1: On-device Context Sensing using Smart Watches
- Topic 2: Mobile Data Collection System

## Teaching Assistant for CS206 Data Structure course

Assisted in preparing and grading assignments, and supported students’ understanding of fundamental data structures and algorithms in Java.

- 2024 Spring
- 2024 Fall
- 2025 Spring

# Awards & Honors

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## Graduate Research Fellowship for Master’ s Student

NRF

A national fellowship awarded by the NRF to foster Master’s students’ early research capabilities and academic excellence

2024-2025

## Outstanding TA Award

KAIST

Teaching assistant for CS206 Data Structure course

2024.08

## Lim Mi-sook Scholarship

KAIST

A scholarship that supports KAIST School of Computing female students who demonstrate outstanding leadership

2023.11

**National Science and Engineering Scholarship**

A government-funded program in South Korea for outstanding students entering science and engineering fields

KAIST

2018.06

**KAIST Presidential Fellowship**

A selective KAIST program supporting top undergraduates with academic excellence and leadership potential to become global science and technology leaders

KAIST

2018-2023