

# Taejun Kim

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| CONTACT                 | Ph.D. Candidate<br>School of Computing, KAIST<br><i>Email:</i> taejun.kim@kaist.ac.kr<br><i>URL:</i> <a href="https://taejun13.github.io">https://taejun13.github.io</a>  | Kim Byung Ho IT Building (N1) #722<br>KAIST, 291 Daehak-ro, Yuseong-gu<br>Daejeon 34141, Republic of Korea |
| RESEARCH INTERESTS      | I'm interested in devising new AR/VR interactions utilizing eye gaze movement. The integration of sensing technology into modern wearable devices has opened new possibilities of eye gaze-based interaction. Object-attachable, non-wearable eye tracking products even extend the domain into IoT applications. My research interests include eye gaze-based interaction, AR/VR interfaces, and wearable haptic interfaces.   |  |
| PUBLICATIONS            | <b>International Conference Papers</b> <ol style="list-style-type: none"><li>1. <b>Lattice Menu: A Low-Error Gaze-Based Marking Menu Utilizing Target-Assisted Gaze Gestures on a Lattice of Visual Anchors</b><br/><b>Taejun Kim</b>, Auejin Ham, Sunggeun Ahn, Geehyuk Lee<br/>CHI 2022: ACM Conference on Human Factors in Computing Systems</li><li>2. <b>QuadStretch: A Forearm-wearable Multi-dimensional Skin Stretch Display for Immersive VR Haptic Feedback</b><br/>Youngbo Aram Shim, <b>Taejun Kim</b>, Geehyuk Lee<br/>CHI 2022 EA (Demonstration): ACM Conference on Human Factors in Computing Systems</li><li>3. <b>Heterogeneous Stroke: Using Unique Vibration Cues to Improve the Wrist-Worn Spatiotemporal Tactile Display</b><br/><b>Taejun Kim</b>, Youngbo Aram Shim, Geehyuk Lee<br/>CHI 2021: ACM Conference on Human Factors in Computing Systems</li></ol> <b>International Journal Papers</b> <ol style="list-style-type: none"><li>1. <b>WristMenu with Tactons: An Eyes- and Ears-free Menu with Tactons Describing Menu Items in the Wrist Rotation Space</b><br/>Eunhye Youn, <b>Taejun Kim</b>, Geehyuk Lee<br/>IJHCI 2022: International Journal of Human-Computer Interaction (Impact Factor: 3.353)</li></ol> |  |
| PROFESSIONAL EXPERIENCE | <b>Meta Reality Labs, Toronto, Canada</b><br>Ph.D. Research Intern  | JUN. 2022 – DEC. 2022  |
|                         | <b>Bhaptics</b><br>Frontend coder<br>- Web interface development, service page renewal  | DEC. 2015 – FEB. 2016  |
| AWARDS                  | <b>CHI '22 Best Demo Award</b> , ACM Conference on Human Factors in Computing Systems<br>Demonstrating “QuadStretch: A Forearm-wearable Multi-dimensional Skin Stretch Display for Immersive VR Haptic Feedback”  | MAY. 2022  |
|                         | <b>Outstanding Master's Thesis Award</b> , KAIST School of Computing<br>Thesis Title: “Improving Recognition Accuracy of Wrist-Worn Spatiotemporal Tactile Display using Heterogeneous Vibrotactile Stimuli”  | FAB. 2021  |
| EDUCATION               | <b>Korea Advanced Institute of Science and Technology (KAIST)</b><br>Ph.D. Candidate in Computer Science<br><i>Advisor:</i> Geehyuk Lee, Ph.D.  | Daejeon, Korea<br>SEP. 2020 – Present  |
|                         | <b>Korea Advanced Institute of Science and Technology (KAIST)</b><br>M.S. in Computer Science   | Daejeon, Korea<br>2020   |

*Thesis:* “Improving Recognition Accuracy of Wrist-Worn Spatiotemporal Tactile Display using Heterogeneous Vibrotactile Stimuli”  
*Advisor:* Geehyuk Lee, Ph.D.

**Korea Advanced Institute of Science and Technology (KAIST)**  
 B.S. in Computer Science

Daejeon, Korea  
 2018

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| INVITED TALKS    | <b>Interface Control with Eye Movement</b><br>High-Beams seminar series, University College London         | MAR. 2023   |
|                  | <b>Interface Control with Eye Movement</b><br>Stanford HCI Lunch, Stanford University                      | NOV. 2022   |
|                  | <b>Interface Control with Eye Movement</b><br>DGP Lab, University of Toronto                               | NOV. 2022   |
| ACADEMIC SERVICE | <b>Review</b><br>WHC: IEEE World Haptics Conference  | 2023        |
|                  | INTERACT: IFIP International Conference on Human-Computer Interaction                                      |             |
|                  | ETRA: ACM Symposium on Eye Tracking Research & Application   |             |
| TEACHING         | <b>Lecture on SPSS &amp; R practice</b><br>in CS584 Human-Computer Interaction, School of Computing, KAIST | OCT. 2021   |
|                  | <b>Teaching Assistant</b><br>CS492 Wearable User Interface, KAIST  | Spring 2023 |
|                  | CS584 Human-Computer Interaction, KAIST  | Fall 2021   |
|                  | CS550 Software Engineering, KAIST  | Spring 2021 |
|                  | CS300 Introduction to Algorithms, KAIST  | Fall 2020   |
|                  | CS204 Discrete Mathematics, KAIST  | Spring 2019 |
|                  | CS230 System Programming, KAIST  | Spring 2018 |
|                  | CS101 Introduction to Programming, KAIST   | Fall 2017   |
|                  |  |             |