

Taejun Kim

CONTACT Ph.D. Candidate
School of Computing, KAIST Kim Byung Ho IT Building (N1) #722
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RESEARCH My curiosity lies in discovering the maximum potential of utilizing our eyes for Human-Computer Interac-
INTERESTS tion, researching opportunities and challenges of gaze-based interactions. Beyond my primary interest, I also
have a fascination with haptics and text entry.

PUBLICATIONS **International Conference Papers**

1. **QuadStretcher: A Forearm-Worn Skin Stretch Display for Bare-Hand Interaction in AR/VR**
Taejun Kim, Youngbo Aram Shim, YoungIn Kim, Sunbum Kim, Jaeyeon Lee, Geehyuk Lee
CHI 2024: ACM Conference on Human Factors in Computing Systems (to appear)
2. **STAR: Smartphone-Analogous Typing in Augmented Reality**
Taejun Kim, Amy Karlson, Aakar Gupta, Tovi Grossman, Jason Wu, Parastoo Abtahi, Christopher
Collins, Michael Glueck, Hemant Bhaskar Surale
UIST 2023: ACM Symposium on User Interface Software and Technology
<https://doi.org/10.1145/3586183.3606803>
3. **Lattice Menu: A Low-Error Gaze-Based Marking Menu Utilizing Target-Assisted Gaze Gestures
on a Lattice of Visual Anchors**
Taejun Kim, Auejin Ham, Sunggeun Ahn, Geehyuk Lee
CHI 2022: ACM Conference on Human Factors in Computing Systems
<https://doi.org/10.1145/3491102.3501977>
4. **Heterogeneous Stroke: Using Unique Vibration Cues to Improve the Wrist-Worn Spatiotemporal
Tactile Display**
Taejun Kim, Youngbo Aram Shim, Geehyuk Lee
CHI 2021: ACM Conference on Human Factors in Computing Systems
<https://doi.org/10.1145/3411764.3445448>

International Journal Papers

1. **WristMenu with Tactons: An Eyes- and Ears-free Menu with Tactons Describing Menu Items in
the Wrist Rotation Space**
Eunhye Youn, **Taejun Kim**, Geehyuk Lee
IJHCI 2022: International Journal of Human-Computer Interaction (Impact Factor: 3.353)
<https://doi.org/10.1080/10447318.2022.2159780>

Extended Abstracts: Posters and Demos

1. **QuadStretch: A Forearm-wearable Multi-dimensional Skin Stretch Display for Immersive VR
Haptic Feedback**
Youngbo Aram Shim, **Taejun Kim**, Geehyuk Lee
CHI 2022 Interactivity: ACM Conference on Human Factors in Computing Systems
<https://doi.org/10.1145/3491101.3519908>

PROFESSIONAL **Meta Reality Labs, Toronto, Canada** JUN. 2022 – DEC. 2022
EXPERIENCE Ph.D. Research Intern
Advisors: Hemant Surale, Amy Karlson, and Aakar Gupta

AWARDS & **CHI '22 Best Demo Award**, ACM Conference on Human Factors in Computing Systems MAY. 2022
HONOR Demonstrating “QuadStretch: A Forearm-wearable Multi-dimensional Skin Stretch Display for Immersive

VR Haptic Feedback”

Outstanding Master’s Thesis Award, KAIST School of Computing FEB. 2021
Thesis Title: “Improving Recognition Accuracy of Wrist-Worn Spatiotemporal Tactile Display using Heterogeneous Vibrotactile Stimuli”

Naver PhD Fellowship, Naver Corp. DEC. 2022
Ph.D. Fellowship

Inseo Precision Engineering Fellowship, KAIST. MAY. 2023
Ph.D. Fellowship

Kim Young Han Global Leader Fellowship, KAIST. JUL. 2023
Ph.D. Fellowship

2024 Global Leadership Awards, President of KAIST. FEB. 2024
Ph.D. Award

KIA Research Fellowship, Kia Motors Corp. MAR. 2024
Ph.D. Fellowship

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
Ph.D. Candidate in Computer Science SEP. 2020 – Present
Advisor: Geehyuk Lee, Ph.D.

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
M.S. in Computer Science 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) Daejeon, Korea
B.S. in Computer Science 2018

INVITED TALKS

Interface Control with Eye Movement MAR. 2023
High-Beams seminar series, University College London

Interface Control with Eye Movement NOV. 2022
Stanford HCI Lunch, Stanford University

Interface Control with Eye Movement Nov. 2022
DGP Lab, University of Toronto

ACADEMIC SERVICE

Reviewer (14)
CHI 2024*
CHI LBW 2024*
MobileHCI 2024
ETRA Short Papers 2023, 2024
WHC 2023*
INTERACT 2023
(*Special recognition for outstanding reviews)

TEACHING

Guest Lecturer OCT. 2021
Lecture on SPSS & R practice, CS584, KAIST

Teaching Assistant
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
CS204 Discrete Mathematics, KAIST
CS230 System Programming, KAIST
CS101 Introduction to Programming, KAIST

Fall 2020
Spring 2019
Spring 2018
Fall 2017