Taejun Kim, Ph.D.

CONTACT	School of Computing, KAIST	Kim Byung Ho IT Building (N1) #722
	Email: taejun.kim@kaist.ac.kr	KAIST, 291 Daehak-ro, Yuseong-gu
	URL: https://taejunkim.com	Daejeon 34141, Republic of Korea

RESEARCH INTERESTS

Human-Computer Interaction, Gaze-Interaction Methods, Eye Tracking, XR Interaction, User Behavior Understanding and Modeling.

PROFESSIONAL EXPERIENCE

Future Interface Group, Carnegie Mellon University, Pittsburgh, USA MAY. 2025 – Present
Visiting Researcher
Advisor: Chris Harrison

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

PUBLICATIONS

Note about conference papers: in Human-Computer Interaction, top-tier conferences maintain highly selective standards, subjecting full manuscripts to a rigorous, multi-stage review process. This results in high-quality archival proceedings, making conference proceedings the preferred publication venue for greatest impact.

Note about venues: CHI (the ACM Conference on Human Factors in Computing Systems) and UIST (the ACM symposium on User Interface Software and Technology) are both recognized as very top tier HCI conferences (Google Scholar and Microsoft Academic both rank them as #1 and #3). The average acceptance rate for CHI is 23% and UIST 21%.

International Conference Papers

1. **Over the Mouse: Navigating across the Z-dimension of GUI with Finger-Lifting Operations**
   YoungIn Kim, Yohan Yun, **Taejun Kim**, Geehyuk Lee
   CHI 2025: ACM Conference on Human Factors in Computing Systems (acceptance ratio: 25.1%)
   http://doi.org/10.1145/3706598.3713340

2. **Palmrest+: Expanding Laptop Input Space with Shear Force on Palm-Resting Area**
   Jisu Yim, Seoyeon Bae, **Taejun Kim**, Sunbum Kim, Geehyuk Lee
   UIST 2024: ACM Symposium on User Interface Software and Technology (acceptance ratio: 24.0%)
   https://doi.org/10.1145/3654777.3676371

3. **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 (acceptance ratio: 26.3%)
   https://doi.org/10.1145/3613904.3642067

4. **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 (acceptance ratio: 25.1%)
   https://doi.org/10.1145/3586183.3606803

5. **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 (acceptance ratio: 12.5%)
   https://doi.org/10.1145/3491102.3501977

6. **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 (acceptance ratio: 26.3%)
   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

2. **QuadStretch: A Forearm-wearable Skin Stretch Display for Immersive VR Experience**
Youngbo Aram Shim, **Taejun Kim**, Sangyoon Lee, Geehyuk Lee
Siggraph Asia Emerging Technology Systems
http://doi.org/10.1145/3550471.3564761

AWARDS & HONOR	**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"

CHI '22 Best Demo Award, ACM Conference on Human Factors in Computing Systems   MAY. 2022
Demonstrating "QuadStretch: A Forearm-wearable Multi-dimensional Skin Stretch Display for Immersive VR Haptic Feedback"

Naver PhD Fellowship, Naver Corp.   DEC. 2022
Ph.D. Fellowship - 5 Million KRW

Inseo Precision Engineering Fellowship, KAIST.   MAY. 2023
Ph.D. Fellowship - 1 Million KRW

Kim Young Han Global Leader Fellowship, KAIST.   JUL. 2023
Ph.D. Fellowship - 4 Million KRW

2024 Global Leadership Awards, President of KAIST.   FEB. 2024
Ph.D. Award - 1 Million KRW

KIA Research Fellowship, KIA Motors Corp.   MAR. 2024
Ph.D. Fellowship - 3 Million KRW

Jang Young Sil Postdoctoral Fellowship, KAIST.   APR. 2025
Postdoctoral Fellowship - 50 Million KRW

EDUCATION   **Korea Advanced Institute of Science and Technology (KAIST)**   Daejeon, Korea
Ph.D. in Computer Science   2025
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   **Haptics, Text Entry, and Gaze Interaction**   MAY. 2024

Introduction To Human-Computer Interaction, UNIST, *Host*: Jaeyeon Lee

Haptics, Text Entry, and Gaze Interaction   MAY. 2024
Interactive Wearable Computing Class, KAIST, *Host*: Ian Oakley

Interface Control with Eye Movement   MAR. 2023
High-Beams seminar series, University College London, *Host*: Kaan Akşit

Interface Control with Eye Movement   NOV. 2022
Stanford HCI Lunch, Stanford University, *Host*: Sean Liu

Interface Control with Eye Movement   NOV. 2022
DGP Lab, University of Toronto, *Host*: Karthik Mahadevan

ACADEMIC SERVICE **Program Committee**
CHI LBW 2025: Associate Chair
ETRA Short Papers 2023-2025

Reviewer (40)
CHI 2024[*], 2025[*], UIST 2024[*], 2025, CHI LBW 2024[*], 2025, ETRA Short Papers 2023-2025, MobileHCI 2024, AH 2025, ISS 2024, SIGGRAPH Asia ET 2024, WHC 2023[*], INTERACT 2023
([*]Special recognition for outstanding reviews)

Session Chair
CHI 2025: Haptic Technology Session

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   Fall 2020
CS204 Discrete Mathematics, KAIST   Spring 2019
CS230 System Programming, KAIST   Spring 2018
CS101 Introduction to Programming, KAIST   Fall 2017