

# Taejun Kim

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## CONTACT

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## RESEARCH INTERESTS PROFESSIONAL EXPERIENCE

Eye tracking, Gaze analysis, Gaze-interactive application, AR/VR, User behavior modeling.

**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 2025  
Ph.D. in Computer Science  
*Advisor: Geehyuk Lee*
- Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, Korea 2020  
M.S. in Computer Science  
*Thesis: "Improving Recognition Accuracy of Wrist-Worn Spatiotemporal Tactile Display using Heterogeneous Vibrotactile Stimuli"*  
*Advisor: Geehyuk Lee*
- Korea Advanced Institute of Science and Technology (KAIST)** Daejeon, Korea 2018  
B.S. in Computer Science

#### INVITED TALKS

- Haptics, Text Entry, and Gaze Interaction** MAY. 2024  
Introduction To Human-Computer Interaction, UNIST, *Host: Jaeyeon Lee*

	<b>Haptics, Text Entry, and Gaze Interaction</b> Interactive Wearable Computing Class, KAIST, <i>Host</i> : Ian Oakley	MAY. 2024
	<b>Interface Control with Eye Movement</b> High-Beams seminar series, University College London, <i>Host</i> : Kaan Akşit	MAR. 2023
	<b>Interface Control with Eye Movement</b> Stanford HCI Lunch, Stanford University, <i>Host</i> : Sean Liu	NOV. 2022
	<b>Interface Control with Eye Movement</b> DGP Lab, University of Toronto, <i>Host</i> : Karthik Mahadevan	Nov. 2022
ACADEMIC SERVICE	<b>Program Committee</b> CHI LBW 2025: Associate Chair ETRA Short Papers 2023-2025  <b>Reviewer (40)</b> 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)  <b>Session Chair</b> CHI 2025: Haptic Technology Session	
TEACHING	<b>Guest Lecturer</b> Lecture on SPSS & R practice, CS584, KAIST  <b>Teaching Assistant</b> CS492 Wearable User Interface, KAIST CS584 Human-Computer Interaction, KAIST CS550 Software Engineering, KAIST CS300 Introduction to Algorithms, KAIST CS204 Discrete Mathematics, KAIST CS230 System Programming, KAIST CS101 Introduction to Programming, KAIST	OCT. 2021   Spring 2023 Fall 2021 Spring 2021 Fall 2020 Spring 2019 Spring 2018 Fall 2017