

Taejun Kim

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RESEARCH INTERESTS	Eye tracking, Gaze analysis, Gaze-interactive application, AR/VR, User behavior modeling.	
PROFESSIONAL EXPERIENCE	Future Interface Group, Carnegie Mellon University, Pittsburgh, USA Visiting Researcher <i>Advisor:</i> Chris Harrison	MAY. 2025 – Present
	Meta Reality Labs, Toronto, Canada Ph.D. Research Intern <i>Managers:</i> Hemant Surale, Amy Karlson, and Aakar Gupta	JUN. 2022 – DEC. 2022
PUBLICATIONS	<p>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.</p> <p>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%.</p> <p>International Conference Papers</p> <ol style="list-style-type: none">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/10.1145/3706598.3713340Palmrest+: 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/10.1145/3654777.3676371QuadStretcher: 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/10.1145/3613904.3642067STAR: 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/10.1145/3586183.3606803Lattice 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/10.1145/3491102.3501977Heterogeneous 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, <i>Host</i> : Jaeyeon Lee	
	Haptics, Text Entry, and Gaze Interaction	MAY. 2024
	Interactive Wearable Computing Class, KAIST, <i>Host</i> : Ian Oakley	
	Interface Control with Eye Movement	MAR. 2023
	High-Beams seminar series, University College London, <i>Host</i> : Kaan Akşit	
	Interface Control with Eye Movement	Nov. 2022
	Stanford HCI Lunch, Stanford University, <i>Host</i> : Sean Liu	
	Interface Control with Eye Movement	Nov. 2022
	DGP Lab, University of Toronto, <i>Host</i> : 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
SKILLS	Eye Tracking, PyTorch, Tensorflow, Pandas, Numpy, OpenCV, Unity, CSharp, Github, Flask, Oculus SDK, MRTK Hololens SDK, Autodesk Fusion, 3D Printing, Circuit Design, Swift, Xcode, Laser Cutting	