

# Gwangbin Kim

Personal: <https://gwangbin.com>

Email: [gwangbin@gm.gist.ac.kr](mailto:gwangbin@gm.gist.ac.kr)

<https://scholar.google.com/citations?user=ed6-SC8AAAAJ&hl>

## Research Focus

My research focuses on human-centered AI and interaction, primarily within the context of **automated vehicles (AVs)**. I tackle key challenges in AV **Explainability and trust** by developing systems that predict passenger demand for explanations, generating explanations contingent upon **passenger's psycho-physiological states**, and evaluating their impact on real roads. My work also addresses **AV interactions in multi-user conflict scenarios** and investigates system **robustness** through **adversarial attacks** and defenses. Within the AV setting, I also enhance the passenger experience using **In-Car XR**, designing multisensory VR systems and enabling active locomotion. Beyond AVs, my research extends to broader **navigation and accessibility**, including using **visual saliency** for wayfinding design and creating compensatory head movement stimulation for people with low vision. Underpinning all my work is a foundation in **broad HCI, AI, UbiComp, and XR** demonstrated through the development of AI-infused multisensory interfaces.

## Education

Ph.D. in Artificial Intelligence Gwangju Institute of Science and Technology (GIST) Advisor: Prof. SeungJun Kim	Mar 2021 - Current Gwangju, Korea
M.S. in Robotics Gwangju Institute of Science and Technology (GIST) <i>Thesis: Wayfinding Design Toolkit with Real-time Prediction of Visual Saliency as an Iterative Feedback</i> Advisor: Prof. SeungJun Kim	Mar 2019 - Feb 2021 Gwangju, Korea
B.S. in Mechanical Engineering Gwangju Institute of Science and Technology (GIST)	Mar 2015 - Feb 2019 Gwangju, Korea

## Employment

Human-Centered Intelligent Systems Laboratory, GIST Research Assistant (Ph.D./M.S.)   Research Intern (Mentor: Prof. SeungJun Kim)	Mar 2019 - Current   Dec 2018 - Feb 2019 Gwangju, Korea
Advanced Technology Team, SOSLAB, Co., Ltd. Research Engineer (Mentor: Dr. Junhwan Jang, CTO) - Joined as the 3rd employee of an early-stage startup, now 120+ employees and publicly traded on KOSDAQ - Optical Triangulation LiDAR with embedded visual recognition [ <a href="#">K1</a> , <a href="#">Pat.1</a> , <a href="#">Pat.2</a> , <a href="#">Pat6</a> , <a href="#">Pat8</a> ]	Jun 2017 - Dec 2018 Gwangju, Korea

## Peer-reviewed Journals and Conferences

- [C.13] When Fingers Become Tools: Rendering Virtual Tool Inertia with a Finger-Mounted Extending Rod  
Seongjun Kang, [Gwangbin Kim](#), Bocheon Gim, Jeongju Park, Juwon Um, Semoo Shin, Chanyoung Park, and SeungJun Kim  
*ACM CHI 2026*: Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems
- [C.12] From Disruption to Immersion: Reimagining Vehicle Motion as Environmental Feedback through Force Mappings in In-Car VR  
Bocheon Gim, Seongjun Kang, [Gwangbin Kim](#), Dohyeon Yeo, Yumin Kang, Ahmed Elsharkawy, and SeungJun Kim  
*ACM CHI 2026*: Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems
- [C.11] EarPressure VR: Ear Canal Pressure Feedback for Enhancing Environmental Presence in Virtual Reality  
Seongjun Kang, [Gwangbin Kim](#), Bocheon Gim, Jeongju Park, Semoo Shin, and SeungJun Kim  
*ACM UIST 2025*: Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology
- [C.10] AttraCar: Multisensory In-Car VR with Thermal, Airflow, and Motion Feedback through Built-In Vehicle Systems  
Dohyeon Yeo, [Gwangbin Kim](#), Minwoo Oh, Jeongju Park, Bocheon Gim, Seongjun Kang, Ahmed Elsharkawy, and SeungJun Kim  
*ACM UIST 2025*: Proceedings of the 38th Annual ACM Symposium on User Interface Software and Technology
- [C.9] Defying Gravity: Towards Gravitoinertial Retargeting of Acceleration for Virtual Vertical Motion in In-Car VR  
Bocheon Gim, Seongjun Kang, Dohyeon Yeo, [Gwangbin Kim](#), Juwon Um, Jeongju Park, and SeungJun Kim  
*IEEE ISMAR 2025*: The 24<sup>th</sup> IEEE International Symposium on Mixed and Augmented Reality

- You're the One Whom I'm Talking To: The Role of Contextual External Human-Machine Interfaces in Multi-Road User Conflict Scenarios  
[C.8] Yumin Kang, Jeongju Park, Seokhyun Hwang, Minwoo Seong, [Gwangbin Kim](#), and SeungJun Kim  
*ACM Ubicomp 2025*: Proceedings of the ACM on IMWUT 9(3), 94
- Decoding Your Ride: What Information Builds Human Trust on Real Roads?  
[J.7] [Gwangbin Kim](#), Dohyeon Yeo, Taewoo Jo, Daniela Rus, and SeungJun Kim  
*ACM GetMobile: Mobile Computing and Communications* 29(2), pp. 5-9
- Semantic Hierarchy-guided Adversarial Attack for Autonomous Driving  
[J.6] [Gwangbin Kim](#) and SeungJun Kim  
*IEEE RA-L 2025*: IEEE Robotics and Automation Letters (SCI(E), JCR 2025 Impact Factor: 5.3) [Invited to ICRA 2026]
- I Want to Break Free: Enabling User-Applied Active Locomotion in In-Car VR through Contextual Cues  
[C.7] Bocheom Gim, Seokhyun Hwang, Seongjun Kang, [Gwangbin Kim](#), Dohyeon Yeo, and SeungJun Kim  
*ACM CHI 2025*: Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems
- Flip-Pelt: Motor-Driven Peltier Elements for Rapid Thermal Stimulation and Congruent Pressure Feedback in Virtual Reality  
[C.6] Seongjun Kang, [Gwangbin Kim](#), Seokhyun Hwang, Jeongju Park, Ahmed Elsharkawy, and SeungJun Kim  
*ACM UIST 2024*: Proceedings of the 37th Annual ACM Symposium on User Interface Software and Technology
- TimelyTale: A Multimodal Dataset Approach to Assessing Passenger's Demand for Explanations in Highly Automated Vehicles  
[C.5] [Gwangbin Kim](#), Seokhyun Hwang, Minwoo Seong, Dohyeon Yeo, Daniela Rus, and SeungJun Kim  
*ACM Ubicomp 2024*: Proceedings of the ACM on IMWUT 8(3), 109
- WatchCap: Improving Scanning Efficiency in People with Low Vision through Compensatory Head Movement Stimulation  
[C.4] Taewoo Jo, Dohyeon Yeo, [Gwangbin Kim](#), Seokhyun Hwang, and SeungJun Kim  
*ACM Ubicomp 2024*: Proceedings of the ACM on IMWUT 8(2), 47
- MultiSenseBadminton: Wearable Sensor-Based Biomechanical Dataset for Evaluation of Badminton Performance  
[J.5] Minwoo Seong, [Gwangbin Kim](#), Dohyeon Yeo, Yumin Kang, Heesan Yang, Joseph DelPreto, Wojciech Matusik, Daniela Rus, and SeungJun Kim  
*Scientific Data*, 11(1), 343, 2024 (SCI(E), JCR 2022 Impact Factor: 9.8)
- How Do Background and Remote User Representations Affect Social Telepresence in Remote Collaboration?: A Study with Portal Display, a Head Pose-Responsive Video Teleconferencing System  
[J.4] Seongjun Kang, [Gwangbin Kim](#), Kyung-Taek Lee, and SeungJun Kim  
*Electronics* 12(20), 4339, 2023 (SCI(E), JCR 2022 Impact Factor: 2.9)
- Giant Finger: A Novel Visuo-somatosensory Approach to Simulating Lower-body Movements in Virtual Reality  
[C.3] Seongjun Kang, [Gwangbin Kim](#), and SeungJun Kim  
*IEEE ISMAR 2023*: The 22<sup>nd</sup> IEEE International Symposium on Mixed and Augmented Reality
- What and When to Explain? On-road Evaluation of Explanations in Highly Automated Vehicles  
[C.2] [Gwangbin Kim](#), Dohyeon Yeo, Taewoo Jo, Daniela Rus, and SeungJun Kim  
*ACM Ubicomp 2023*: Proceedings of the ACM on IMWUT 7(3), 104 [Distinguished Paper Award]
- Simulating Urban Element Design with Pedestrian Attention: Visual Saliency as Aid for More Visible Wayfinding Design  
[J.3] [Gwangbin Kim](#), Dohyeon Yeo, Jieun Lee, and SeungJun Kim  
*Land* 12(2), 394, 2023 (SSCI, JCR 2021 Impact Factor: 3.905)
- Logogram VR: Treadmill-Coupled VR with Word Reflective Content for Embodied Logogram Learning  
[J.2] [Gwangbin Kim](#), Eunsol An, and SeungJun Kim  
*Applied Sciences* 13(3), 1627, 2023 (SCI(E), JCR 2021 Impact Factor: 2.838)
- Take-Over Requests after Waking in Autonomous Vehicles  
[J.1] Won Kim, Eunki Jeon, [Gwangbin Kim](#), Dohyeon Yeo, and SeungJun Kim  
*Applied Sciences* 12(3), 1438, 2022 (SCI(E), JCR 2020 Impact Factor: 2.679)
- Toward Immersive Self-Driving Simulations: Reports from a User Study across Six Platforms  
[C.1] Dohyeon Yeo, [Gwangbin Kim](#), and SeungJun Kim  
*ACM CHI 2020*: Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems

## Doctoral Colloquium

- Human-centric Intelligibility for Automated Vehicles: Aligning Explanations with Predictive Models of Passenger State  
[DC] [Gwangbin Kim](#) and SeungJun Kim  
*UbiComp/ISWC 2025 Doctoral Colloquium*

## Extended Abstracts: Posters, Demos, Workshop Papers, Workshop Proposals, and Korean Conferences

- [K.4] What Amplifies Explanation Needs in Autonomous Vehicles?: Feature Interaction Between Maneuver Dynamics and Passenger

- Physiological Responses  
Seoyeon Jang, [Gwangbin Kim](#), and SeungJun Kim  
*HCI Korea 2026*
- [W.5] Physiological DDA: Physiological Sensor-based Dynamic Difficulty Adjustment for Enhanced Video Game Engagement  
[Gwangbin Kim](#), Seunghan Kim, and SeungJun Kim  
*ACM UbiComp 2025 Workshop on BodySys*
- [D.3] Demonstration of Multisensory In-Car VR: Repurposing the Vehicle's HVAC System and Power Seat for Immersive Haptic Feedback  
Dohyeon Yeo, [Gwangbin Kim](#), Minwoo Oh, Jeongju Park, Bocheon Gim, Seongjun Kang, Ahmed Elsharkawy, and SeungJun Kim  
*IEEE ISMAR 2025 Research Demonstrations*
- [D.2] Demonstration of EarPressure VR: Ear Canal Pressure Feedback for Enhancing Environmental Presence in Virtual Reality  
Seongjun Kang, [Gwangbin Kim](#), Bocheon Gim, Jeongju Park, Semoo Shin, and SeungJun Kim  
*ACM UIST 2025 Demos*
- [D.1] Demonstration of AttraCar: Multisensory In-Car VR with Thermal, Airflow, and Motion Feedback through Built-In Vehicle Systems  
Dohyeon Yeo, [Gwangbin Kim](#), Minwoo Oh, Jeongju Park, Bocheon Gim, Seongjun Kang, Ahmed Elsharkawy, and SeungJun Kim  
*ACM UIST 2025 Demos*
- [P.4] Magneto: Enabling Multimodal Haptic Feedback on Paper through Magnetic Fields  
Jeongju Park, Semoo Shin, Seongjun Kang, [Gwangbin Kim](#), and SeungJun Kim  
*ACM CHI 2025 Late-breaking Work*
- [W.4] Intelligent Seat: Tactile Signal-Based 3D Sitting Pose Inference  
Minwoo Seong, [Gwangbin Kim](#), Jaehee Lee, Joseph DelPreto, Wojciech Matusik, Daniela Rus, and SeungJun Kim  
*ACM UbiComp 2024 Workshop on AI-infused Physical Systems*
- [WP.1] Interpretable, Inclusive, and Immersive Interaction for Ubiquitous AI-infused Physical Systems  
[Gwangbin Kim](#), Minwoo Seong, Dohyeon Yeo, Yumin Kang, and SeungJun Kim  
*ACM UbiComp 2024 Workshop Proposal*
- [P.3] Curving the Virtual Route: Applying Redirected Steering Gains for Active Locomotion in In-car VR  
Bocheon Gim, Seongjun Kang, [Gwangbin Kim](#), Dohyeon Yeo, Seokhyun Hwang, and SeungJun Kim  
*ACM CHI 2024 Late-breaking Work*
- [W.3] Counterfactual Explanation-Based Badminton Motion Guidance Generation Using Wearable Sensors  
Minwoo Seong, [Gwangbin Kim](#), Yumin Kang, Junhyuk Jang, Joseph DelPreto, and SeungJun Kim  
*ICRA 2024 Workshop on Wearables*
- [W.2] Dual-sided Peltier Elements for Rapid Thermal Feedback in Wearables  
SeongJun Kang, [Gwangbin Kim](#), Seokhyun Hwang, Jeongju Park, Ahmed Elsharkawy, and SeungJun Kim  
*ICRA 2024 Workshop on Wearables*
- [P.2] Physiological Indices for Driver Situation Awareness in VR  
[Gwangbin Kim](#), Jieun Lee, Dohyeon Yeo, Eunsol An, and SeungJun Kim  
*ACM UbiComp 2023 Poster (People's Choice Award for Best Poster)*
- [P.1] Giant Finger: Visuo-proprioceptive congruent virtual legs for flying actions in virtual reality  
Seongjun Kang, [Gwangbin Kim](#), Kyung-Taek Lee, and SeungJun Kim  
*IEEE VR 2023 Poster*
- [K.3] The Thousand Character Classic VR: Chinese Characters-adaptive VR Game with Treadmill for an Embodied Learning of Their Korean Rendering  
Eunsol An, [Gwangbin Kim](#), and SeungJun Kim  
*HCI Korea 2022*
- [K.2] Survey-based scenario design and development of sensor-based evaluation testbed for qualitative analysis of contextual road sign visibility  
Jieun Lee, Dohyeon Yeo, [Gwangbin Kim](#), and SeungJun Kim  
*HCI Korea 2020*
- [W.1] MAXIM: Mixed-reality Automotive driving Ximulation  
Dohyeon Yeo, [Gwangbin Kim](#), and SeungJun Kim  
*IEEE ISMAR 2019 workshop on Augmenting Cities and Architectures with Immersive Technologies*
- [K.1] Development of an Optical Triangulation LiDAR Capable of Visual Object Recognition  
[Gwangbin Kim](#), Dongkyu Kim, Juhyeok Hong, and Junhwan Jang  
*KSPE 2018 Spring Conference*

## Patents

- [Pat.10] Multisensory In-car VR with Thermal, Airflow, and Motion Feedback Through Built-in Vehicle Systems  
SeungJun Kim, Dohyeon Yeo, Seongjun Kang, Gwangbin Kim, Bocheon Gim, Jeongju Park, Ahmed Elsharkawy, and Minwoo Oh  
KR1025157134: KR patent filed 2025-10-27
- [Pat.9] Multi-channel lidar sensor module  
Jiseong Jeong, Junhwan Jang, Dongkyu Kim, Sungui Hwang, Bumsik Won, and Gwangbin Kim  
US19248300: US patent filed 2025-06-24
- [Pat.8] Haptic wearable devices for tactile experiences  
SeungJun Kim, Seongjun Kang, Gwangbin Kim, Seokhyun Hwang, Jeongju Park, Ahmed Elsharkawy  
US19551531: US patent filed 2026-02-26  
KR102541073: KR patent App. filed 2025-03-31
- [Pat.7] Game scene creation program based on emotional information stored in recording media  
SeungJun Kim, Jeongseok Oh, Kyung-Joong Kim, Gwangbin Kim, Seungju Kim, and Eunsol An  
US19497636: US patent filed 2025-12-29  
WO2025110319: PCT patent (WIPO) filed 2023-12-11  
KR1023166091: KR patent App. filed 2023-11-24
- [Pat.6] Multi-channel lidar sensor module  
Jiseong Jeong, Junhwan Jang, Dongkyu Kim, Sungui Hwang, Bumsik Won, and Gwangbin Kim  
US12379469: US patent filed 2023-01-05 issued 2025-07-23 **Patent granted**
- [Pat.5] Multisensory virtual reality transition device  
SeungJun Kim, Dohyeon Yeo, Gwangbin Kim, Jieun Lee, and Jeongseok Oh  
KR10220023319: KR patent filed 2022-02-23
- [Pat.4] Sign visibility test system  
SeungJun Kim, Gwangbin Kim, Eunsol An, Dohyeon Yeo, and Jieun Lee  
US12450923: US patent filed 2022-12-19 issued 2025-10-21 **Patent granted**  
KR102728055: KR patent filed 2021-12-30 issued 2024-11-08 **Patent granted**
- [Pat.3] Mixed reality based experience simulator  
SeungJun Kim, Gwangbin Kim, Dohyeon Yeo, and Jieun Lee  
US11734934: US patent filed 2020-09-09 issued 2023-08-22 **Patent granted**  
KR102517818: KR patent filed 2020-05-11 issued 2023-03-30 **Patent granted**
- [Pat.2] Multi-channel lidar sensor module  
Jiseong Jeong, Junhwan Jang, Dongkyu Kim, Sungui Hwang, Bumsik Won, and Gwangbin Kim  
US11579254: US patent filed 2019-06-13 issued 2023-02-14 **Patent granted**
- [Pat.1] Device and method for acquiring object information  
Jiseong Jeong, Junhwan Jang, Dongkyu Kim, Sungui Hwang, and Gwangbin Kim  
KR101980697: KR patent filed 2019-02-15 issued 2019-05-15 **Patent granted**

## Software Copyrights Registration

- [CC.12] Real Vehicle-Based Virtual Reality Platform Content for 3-Axis Virtual Flight Simulation  
SeungJun Kim, Bocheon Gim, Seongjun Kang, Gwangbin Kim, Jeongju Park, Juwon Um, Dohyeon Yeo, and Geehyuk Lee  
C-2025-002589: KR copyright contents. Issued 2025-01-17
- [CC.11] User Real-Time Play Level-Based Dynamic Difficulty Shooting Game  
SeungJun Kim, Gwangbin Kim, Jeongseok Oh, and Seunghan Kim  
C-2025-002588: KR copyright contents. Issued 2025-01-17
- [CC.10] Biosignal-Based Game Dynamic Difficulty Adjustment Program  
SeungJun Kim, Gwangbin Kim, Jeongseok Oh, and Seunghan Kim  
C-2025-002587: KR copyright contents. Issued 2025-01-17
- [CC.9] Biosignal-Based User Cognitive Response Dynamic Difficulty Shooting Game  
SeungJun Kim, Gwangbin Kim, Jeongseok Oh, and Seunghan Kim  
C-2024-054031: KR copyright contents. Issued 2024-12-20
- [CC.8] Game User Cognitive Difficulty and Engagement Level Annotation Tool  
SeungJun Kim, Gwangbin Kim, Jeongseok Oh, and Seunghan Kim  
C-2024-054031: KR copyright contents. Issued 2024-12-20
- [CC.7] First-Person Zombie Shooting Game with Different Respawn Difficulties  
SeungJun Kim, Gwangbin Kim, Jeongseok Oh, and Seunghan Kim  
C-2024-041040: KR copyright contents. Issued 2024-11-01

- [CC.6] Biosignal-Based Cognitive Difficulty Classification Model Using Time Distributed Layer and Long Short-Term Memory Layer  
SeungJun Kim, [Gwangbin Kim](#), Jeongseok Oh, and Seunghan Kim  
C-2024-041039: KR copyright contents. Issued 2024-11-01
- [CC.5] User Gaze and Biosignal-Based Game Cognitive Difficulty Analysis and Visualization Program  
SeungJun Kim, [Gwangbin Kim](#), Jeongseok Oh, and Seunghan Kim  
C-2024-038289: KR copyright contents. Issued 2024-10-22
- [CC.4] User Gaze and Biosignal Data Collection and Feature Index Extraction Program  
SeungJun Kim, [Gwangbin Kim](#), Jeongseok Oh, and Seunghan Kim  
C-2024-038288: KR copyright contents. Issued 2024-10-22
- [CC.3] Virtual Reality with Enlarged Virtual Fingers (Virtual Reality Lower-body Motion simulator to Support Human Gait, Cycling, and Horseriding Motion Experience)  
SeungJun Kim, Seongjun Kang, and [Gwangbin Kim](#)  
C-2023-050927: KR copyright contents. Issued 2023-11-14
- [CC.2] Mobility-Linked Virtual Reality- Based Underwater Exploration Immersive Content Game Software (Ocean Exploration & Trash Collection Game)  
SeungJun Kim, Dohyeon Yeo, Seongjun Kang, Yumin Kang, [Gwangbin Kim](#), Minwoo Seong, Eunsol An, Heesan Yang, Jeongseok Oh, Hwaseung Jeon, Taewoo Jo, and Seokhyun Hwang  
C-2022-050134: KR copyright contents. Issued 2022-12-02
- [CC.1] Mobility-Linked Virtual Reality- Based Underwater Exploration Immersive Content Game Software (Underwater Exploration & Gem Collection Game)  
SeungJun Kim, Dohyeon Yeo, Seongjun Kang, Yumin Kang, [Gwangbin Kim](#), Minwoo Seong, Eunsol An, Heesan Yang, Jeongseok Oh, Hwaseung Jeon, Taewoo Jo, and Seokhyun Hwang  
C-2022-050133: KR copyright contents. Issued 2022-12-02

## Awards, Honors, and Scholarships

ACM UbiComp/ISWC 2025 Doctoral Colloquium, UbiComp/ISWC 2025	Oct 2025
Best Demo Award, IEEE ISMAR 2025 <a href="#">[D3]</a>	Oct 2025
Best Demo Award (People's Choice), ACM UIST 2025 <a href="#">[D1]</a>	Oct 2025
Best Demo Honorable Mention (Jury's Choice), ACM UIST 2025 <a href="#">[D1]</a>	Oct 2025
Outstanding Reviewer Recognition, HRI 2025	Mar 2025
Outstanding RA Scholarship - Institute of Integrated Technology, GIST	Dec 2024
ACM IMMUT Distinguished Paper Award <a href="#">[C2]</a> - UbiComp/ISWC 2024	Oct 2024
Top Student Award - Institute of Integrated Technology, GIST	Dec 2023
JEDI (Justice, Equity, Diversity, and Inclusion) Ambassador Recognition Award - UbiComp/ISWC 2023	Oct 2023
People's Choice for Poster - UbiComp/ISWC 2023	Oct 2023
Best Paper Award - The 14 <sup>th</sup> International Conference on Internet (ICONI 2022)	Dec 2022
2021 GIST Annual R&D Report - GIST's Research Highlights of 2020 <a href="#">[C.1, Pat.3]</a>	Aug 2021
2020 GIST Annual R&D Report - GIST's Research Highlights of 2019 <a href="#">[W.1, Pat.3]</a>	Aug 2020
Samsung Electronics Presidential Award - 2018 IoT Innovation Challenge	Oct 2018
National Excellence Scholarship for Science and Engineering	Apr 2017 - Feb 2019
Honor Scholarship - Awarded for the students with high GPA	Oct 2015
GIST Scholarship - 10 years (B.S./M.S./Ph.D.), full funding & stipend	Mar 2015 - Dec 2024

## Teaching Experience

Guest Lecture	
RT5302 Research Methods in Human-Computer Interaction, GIST	Fall 2024
- Title: Understanding A11y Research Methods: Conducting HCI Studies with Disabled Participants	
Teaching Assistant	
RT6304 Extended Reality Project, GIST	Fall 2021
CT4301/IR4203/FE5403/RT5301/AI6316 Human-Computer Interaction, GIST	Spring 2021 / Spring 2022
EC3202/MC3207 Signals and Systems, GIST	Spring 2019
GS1490 Software Basics and Coding, GIST	Spring 2018

## Invited Talks

Multimodal Beyond Visual, Auditory, and Tactile: Expanding Our Senses of Physical Interaction in Extended Reality with Sensory Intelligence and Robotic Actuators (Host: Prof. Paul Pu Liang)	MIT Media Lab May 2025
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## Academic Services

### Organizing Committee

Workshop Organizer (Program Chair) - ACM UbiComp 2024 Workshop on AI-infused Physical Systems

### Program Committee

Program Committee Member - ACM IUI (2026)

Associate Chair - ACM IMX Technical Program Committee (2026, 2025)

Associate Chair - ACM CHI Poster (2026), ACM CHI Late-breaking Work (2025)

### Conference Operations

JEDI (Justice, Equity, Diversity, and Inclusion) Ambassador - ACM UbiComp 2023

Student Volunteer - ACM CHI 2021

### Reviewer (of 101 papers as of March 2026)

Special Recognition for Outstanding Review: ACM DIS (2024), ACM AutoUI (2023, 2022), ACM/IEEE HRI (2025x2), ACM CHI (2026), ACM IMWUT (2025)

Journal Papers: Proceedings of the ACM on HCI, Proceedings of the ACM on IMWUT

Conference Papers: ACM DIS, ACM CHI, ACM UIST, ACM C&C, ACM AutoUI, ACM VRST, ACM IDC, ACM IMX, ACM UIST

Posters and Demos: ACM CHI LBW, ACM VRST Posters and Demos, ACM ISWC Notes and Briefs