

Erwin Wu, Ph.D

Expert Researcher (Lab Director), Huawei Research Japan

Guest Senior Researcher, Keio Media Design

Germany

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Homepage

https://www.erwin-wu.com/

Keywords

Outgoing Talkative HCI AR/VR

Multilingual Soccer Table Tennis

Future Pose Computer Vision

Languages

■German ■Chinese

Japanese
■English
■Spanish (ing...)

Skills

Programming:

C/C++, C#, Python, Java, JS, R, Swift

Tools:

PyTorch, TensorFlow, Matlab, Unity, Unreal, Blender, Maya, Cinema4D

About

Erwin Wu is a Researcher at Huawei Japan and a Guest Researcher at Keio University. He received his B.Sc.CS (with Honor) from Shanghai Jiao Tong University and his Ph.D. from Tokyo Institute of Technology. Before joining Huawei, he was an Assistant Professor at Tokyo Institute of Technology and worked at CMU and Sony CSL. His research interests are focused on the intersection of computer vision, HCI, VR/AR visualization, machine learning, with a particular emphasis on 3D human pose.

Education

2017-2022	Tokyo Institute of Technology School of Computing, Department Supervised by Prof. Hideki Koike	PhD of Computer Science of Computer Science
2013-2017	Shanghai Jiao Tong University School of Electronic Information a Supervised by Prof. Xubo Yang	Bachelor of C.S. with Honor (Top 5%) nd Electrical Engineering

Work Experience

2023.06 - Now	Huawei Research Japan Tokyo Research Center, CG Lab	Expert Researcher (Lab Director)
2023.06 - Now	Keio University Graduate School of Media Design	Guest Senior Researcher
2022.09 - 2023.06	Tokyo Institute of Technology Department of Computer Science	Research Assistant Professor
2022.10 - 2023.03	Carnegie Mellon University The Robotics Institute, collaborate with	Visiting Assistant Professor Prof. Kris Kitani
2020.04 - 2023.04	Sony Computer Science Laboratory 3D Piano Hand Pose Project with Dr. Fur	Researcher uya Shinichi

Other Experience

2022.12 - 2023.2	Meta Reality Lab Supervised by Dr. Saito Shunsuke	Internship
2020.06 - 2020.09	Huawei Research Japan Tokyo Research Center, Digital Human Project	Internship
2019.11 - 2020.03	Carnegie Mellon University The Robotics Institute, supervised by Prof. Kris Kita	Exchange Student ini
2018.09 - 2022.09	Tokyo Institute of Technology Teaching the class "Data Structures & Algorithms"	Teaching Assistant
2015.09 - 2016.07	Kyoto University School of Informatics and Mathematical Science	Exchange Student

Fellowships & Scholarships

2020	JSPS "Gakushin" Fellowship for Young Scientist (DC1)	JSPS
2019	TSUBAME Doctoral Student Scholarship	TokyoTech
2016	Excellent International Studend Scholarship	SJTU
2015	Scholarship for Excellent Exchange Student	JASS0
2013	International Student Government Scholarship B	Shanghai Gov.

Academic Services

Reviewer	UIST2021-2024, CHI2022-2024, IMWUT2022-2024
Reviewer	ISMAR2022-2023, VR2023-2024,
Editor	IFFF Transactions on Multimedia

Area Chair CHI 2025, UIST 2024

PC Member MVA 2023, 2025, MIRU 2024, WISS 2021

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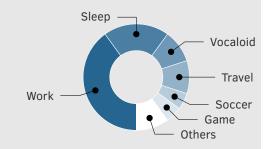
Expert Researcher (Lab Director), Huawei Research Japan

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Research Interest -



Daily



Top 10 Representative Publications

Full the full 50+ publications, please visit my Google scholar.

2024.11	SolePoser: Full Body Pose Estimation using a Single Pair of Insole Sensor Erwin Wu, Rawal Khirodkar, Hideki Koike, Kris Kitani (UIST 2024)
2024.03	ARpenSki: Augmenting Ski Training with Direct and Indirect Postural Visualization Takeshi Matsumoto and Erwin Wu (IEEE VR 2024)
2023.12	SkiTech: An Alpine Skiing and Snowboarding Dataset of 3D Body Pose, Sole Pressure, and Electromyography Erwin Wu et al. (MM 2023)
2023.10	PianoSyncAR: Enhancing Piano Learning through Visualizing Synchronized Hand Pose Discrepancies in Augmented Reality Ruofan Liu, Erwin Wu et al. (ISMAR 2023)
2023.05	OmniSense: Exploring Novel Input Sensing and Interaction Techniques on Mobile Device with an Omni-Directional Camera Hui-Shyong Yeo, Erwin Wu et al. (CHI 2023)
2023.01	Marker-Removal Networks To Collect Precise 3D Hand Data for RGB-Based Estimation and Its Application in Piano Erwin Wu, Hayato Nishioka et al. (WACV 2023)
2021.05	SPinPong - Virtual Reality Table Tennis Skill Acquisition using Visual, Haptic and Temporal Cues Erwin Wu, Mitski Piekenbrock et al. (TVCG 2021)
2020.10	Back-Hand-Pose: 3D Hand Pose Estimation for Wrist-worn Devices via Dorsum Deformation Analysis Erwin Wu, Ye Yuan et al. (UIST 2020)
2020.03	FuturePong: Real-time Table Tennis Trajectory Forecasting using Pose Prediction Network Erwin Wu and Hideki Koike. (CHI'20)
2019.01	FuturePose - Mixed Reality Martial Arts Training Using

Honors & Awards

2023.03	AIP Network Director Award	8th JST CREST AIP Challenge
2022.09	Best Poster Award	10th JST CREST Symposium
2022.05	Seiichi Tejima Research Award	Tokyo Institute of Technology
2022.01	AIP Network Director Award	7th JST CREST AIP Challenge
2019.11	Best Paper Award	VRCAI 2019
2019.03	Best Research Demo Runner-up	IEEE VR 2019
2018.12	Best Poster Award Honorable Mention	VRST 2018
2017.07	Outstanding Graduates Award	Shanghai Jiao Tong U.

Erwin Wu and Hideki Koike. (WACV 2019)

Real-Time 3D Human Pose Forecasting with a RGB Camera

Patents

2023	US Patents, Measurement support device, method and computer program product, US Patent App.
2022	US Patents, Measurement support device, method and computer program product, US Patent App.
2021	Japanese Patents, Information Processing System and its Program, Application Number: 2021-143847.
2021	Japanese Patents, Information Processing System and its Program, Application Number: 2021-172499.
2020	US Patents, Measurement support device, method and computer program product, US Patent App.