

YANG TIAN

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No. 100, Daxue East Road, Nanning, Guangxi, China

EDUCATION

PhD in Computer Science & Engineering

08/2016 - 07/2020

The Chinese University of Hong Kong (CUHK)

Supervisors: Prof. Pheng-Ann Heng and Prof. Chi-Wing Fu

Master of Science (MSc) in Computer Science & Engineering

09/2013 - 09/2014

The Chinese University of Hong Kong (CUHK)

Bachelor's degree in Software Engineering

09/2009 - 09/2013

Jilin University (JLU), China

EMPLOYMENT

Associate Professor, Guangxi University

12/2024 - present

Assistant Professor, Guangxi University

09/2020 - 11/2024

Research Assistant, The Chinese University of Hong Kong

10/2014 - 05/2016

RESEARCH DIRECTION

Human-Computer Interaction in Extended Reality

PUBLICATIONS

Yang Tian, Xingjia Hao, Jianchun Su, Wei Sun, Yangjian Pan, Yunhai Wang, Minghui Sun, Teng Han, Ningjiang Chen. 2025. BoundaryScreen: Summoning the Home Screen in VR via Walking Outward. *IEEE Transactions on Visualization and Computer Graphics*. DOI: 10.1109/TVCG.2025.3549536. Presentation at IEEE VR 2025

Yang Tian, Zhao Su, Tianren Luo, Teng Han, Shengdong Zhao, Youpeng Zhang, Yixin Wang, Boyu Gao, Dangxiao Wang. 2025. SummonBrush: Enhancing Touch Interaction on Large XR User Interfaces by Augmenting Users' Hands with Virtual Brushes. *IEEE Transactions on Visualization and Computer Graphics*. DOI: 10.1109/TVCG.2025.3549553. Presentation at IEEE VR 2025

Yang Tian, Youpeng Zhang, Yukang Yan, Shengdong Zhao, Xiaojuan Ma, Yuanchun Shi. 2025. AmplitudeArrow: On-the-Go AR Menu Selection Using Consecutive Simple Head Gestures and Amplitude Visualization. *IEEE Transactions on Visualization and Computer Graphics*, DOI: 10.1109/TVCG.2025.3531378

Yang Tian, Hualong Bai, Shengdong Zhao, Chi-Wing Fu, Chun Yu, Haozhao Qin, Qiong Wang, Pheng-Ann Heng. 2022. Kine-Appendage: Enhancing Freehand VR Interaction Through Transformations of Virtual Appendages. *IEEE Transactions on Visualization and Computer Graphics*, vol. 30, no. 7, pp. 3298-3313, July 2024

Yang Tian, Yuming Bai, Shengdong Zhao, Chi-Wing Fu, Tianpei Yang, and Pheng Ann Heng. Virtually-Extended Proprioception: Providing Spatial Reference in VR through an Appended Virtual Limb. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery, New York, NY, USA, 1–12.

Yang Tian, Chi-Wing Fu, Shengdong Zhao, Ruihui Li, Xiao Tang, Xiaowei Hu, and Pheng-Ann Heng. Enhancing Augmented VR Interaction via Egocentric Scene Analysis. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol (IMWUT/UbiComp 2019)*. 3, 3, Article 105 (September 2019), 24 pages.

Mingqiang Wei*, **Yang Tian***, Wai-Man Pang, Charlie C. L. Wang, Ming-Yong Pang, Jun Wang, Jing Qin, and Pheng-Ann Heng. Bas-Relief Modeling from Normal Layers. *IEEE Transactions on Visualization and Computer Graphics*, Volume 25, Issue 4, 2019 (*joint first authors)

TALKS

Virtual Auxiliary Appendages and Heads-Up Computing

- Talk at Institute of Software, Chinese Academy of Science, April 2024
- Renmin University of China, April 2024
- Talk at The Hong Kong University of Science and Technology (Guangzhou), April 2024

Enhancing Interactions in Mixed Reality via Virtual Auxiliary Appendages

- Talk at Shandong University, August 2023
- Talk at Jilin University, August 2023

PROFESSIONAL SERVICES

- Executive Committee Member of the Human-Computer Interaction Technical Committee of the China Computer Federation (CCF)
- Executive Committee Member of the Computer-Aided Design and Graphics Technical Committee of CCF
- Publicity Chair of the 1st China Human-Machine Computing Conference (HMCC 2025) and the 21st Joint Academic Conference on Harmonious Human-Machine Environment (HHME 2025)
- I served as a reviewer for top-tier journals/conferences in human-computer interaction, including TVCG, CHI, UIST, Ubicomp, and CSCW

- On October 16, 2023, I organized and hosted the 'CCF Human-Computer Interaction Technical Committee Visit to Guangxi University' event