Wentao Zhu

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APPOINTMENTS

Tenure-Track Assistant Professor, Eastern Institute of Technology, Ningbo 2025 - Present

EDUCATION

Peking University
Ph.D. in Computer Science 2020 - 2025

Peking University
Bachelor of Science, Computer Science and Economics (Dual Degree) 2016 - 2020

Stanford University
Exchange Student, International Honors Program 2018

RESEARCH EXPERIENCE

Research Internship, Qualcomm AI Research 2024

Research Internship, Shanghai AI Lab 2020 - 2022

Research Internship, SenseTime Research 2019 - 2020

Visiting Student, The Chinese University of Hong Kong (MMLab) 2018 - 2019

RESEARCH INTEREST

Human-aware AI, 3D Vision, Embodied AI, Foundation Models

PUBLICATIONS

1. **W. Zhu**, Z. Zhang, Y. Ren, Y. Huang, H. Xu, and Y. Wang, "Embodied Representation Alignment with Mirror Neurons," IEEE/CVF International Conference on Computer Vision (ICCV), 2025.
2. J. Qin, S. Ban, **W. Zhu†**, Y. Wang, and D. Samaras, "Learning Human-aware Robot Policies for Adaptive Assistance," IEEE Robotics and Automation Letters (RA-L), 2025.

3. Y. Wang, Y. Zhou, Y. Lin, H. Chen, J. Zhang, **W. Zhu**, J. Hong, and X. Li, "Dynamic Model-Bank Test-Time Adaptation for Automatic Speech Recognition," Conference on Empirical Methods in Natural Language Processing (EMNLP), 2025.

4. S. Zhao, Z. Wang, T. Luan, J. Jia, **W. Zhu**, J. Luo, J. Yuan, and N. Xi, "PP-Motion: Physical-Perceptual Fidelity Evaluation for Human Motion Generation," ACM International Conference on Multimedia (MM), 2025.

5. H. Ye, X. Ma, H. Ci, **W. Zhu**, and Y. Wang, "FreeCloth: Free-form Generation Enhances Challenging Clothed Human Modeling," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

6. X. Ma, J. Su, Y. Xu, **W. Zhu**, C. Wang, and Y. Wang, "VMarker-Pro: Probabilistic 3D Human Mesh Estimation from Virtual Markers," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025.

7. H. Wang*, **W. Zhu***, L. Miao, Y. Xu, F. Gao, Q. Tian, and Y. Wang, "Aligning Human Motion Generation with Human Perceptions," International Conference on Learning Representations (ICLR), 2025.

8. S. Ban, J. Fan, X. Ma, **W. Zhu†**, Y. Qiao†, and Y. Wang, "Real-time Holistic Robot Pose Estimation with Unknown States," European Conference on Computer Vision (ECCV), 2024.

9. **W. Zhu**, Z. Zhang, and Y. Wang, "Language Models Represent Beliefs of Self and Others," International Conference on Machine Learning (ICML), 2024.

10. **W. Zhu***, X. Ma*, D. Ro*, H. Ci, J. Zhang, J. Shi, F. Gao, Q. Tian, and Y. Wang, "Human Motion Generation: A Survey," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024.

11. Y. Xu, X. Ma, J. Su, **W. Zhu**, Y. Qiao, and Y. Wang, "ScoreHypo: Probabilistic Human Mesh Estimation with Hypothesis Scoring," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

12. **W. Zhu***, J. Qin*, Y, Lou, H. Ye, X. Ma, H. Ci, and Y. Wang, "Social Motion Prediction with Cognitive Hierarchies," Conference on Neural Information Processing Systems (NeurIPS), 2023.

13. X. Ma*, S. Kaufhold*, S. Su*, **W. Zhu**, J. Terwilliger, A. Meza, Y. Zhu, F. Rossano, and Y. Wang, "ChimpACT: A Longitudinal Dataset for Understanding Chimpanzee Behaviors," Conference on Neural Information Processing Systems (NeurIPS), 2023.

14. **W. Zhu**, X. Ma, Z. Liu, L. Liu, W. Wu, and Y. Wang, "MotionBERT: A Unified Perspective on Learning Human Motion Representations," IEEE/CVF International Conference on Computer Vision (ICCV), 2023.

15. H. Ci, M. Wu, **W. Zhu**, X. Ma, H. Dong, F. Zhong, and Y. Wang, "GFPose: Learning 3D Human Pose Prior with Gradient Fields," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.
16. X. Ma, C. Wang, J. Su, **W. Zhu**, and Y. Wang, "3D Human Mesh Estimation from Virtual Markers," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.
17. H. Ye*, **W. Zhu***, C. Wang, R. Wu, and Y. Wang, "Faster VoxelPose: Real-time 3D Human Pose Estimation by Orthographic Projection," European Conference on Computer Vision (ECCV), 2022.
18. H. Zhu*, W. Wu*, **W. Zhu**, L. Jiang, S. Tang, L. Zhang, Z. Liu, and C. C. Loy, "CelebV-HQ: A Large-scale Video Facial Attributes Dataset," European Conference on Computer Vision (ECCV), 2022.
19. **W. Zhu***, Z. Yang*, Z. Di, W. Wu, Y. Wang, and C. C. Loy, "MoCaNet: Motion Retargeting in-the-wild via Canonicalization Networks," AAAI Conference on Artificial Intelligence (AAAI), 2022.
20. Z. Yang*, **W. Zhu***, W. Wu, C. Qian, Q. Zhou, B. Zhou, and C. C. Loy, "TransMoMo: Invariance-Driven Unsupervised Video Motion Retargeting," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

* = equal contributions, † = corresponding author.

SERVICES

Area Chair

NeurIPS 2025

Reviewer / PC Member

Conference: CVPR, ECCV, ICCV, ICLR, AAAI, NeurIPS, ICML, IEEE VR, SIGGRAPH Asia

Journal: TPAMI, IJCV, TOG, TVCG, TIP

Workshop Organization

The 1st Workshop on Humanoid Agents @ CVPR 2025

Populating Empty Cities Virtual Humans for Robotics and Autonomous Driving @ CVPR 2024

TEACHING

Robot Vision and Learning (TA, Graduate Course in English), Peking University	2022
Practice of Programming in C & C++ (TA), Peking University	2021
Career Planning and Leadership Development (TA), Peking University	2020

AWARDS AND HONORS

National Scholarship, Peking University	2024
Merit Student, Peking University	2024
Top Reviewer, NeurIPS 2023	2023
Ubiquant Scholarship, Peking University	2023
Award for Research Excellence, Peking University	2023
AAAI-22 Scholarship	2022
Grand Prize, Challenge Cup of Peking University	2021
Sino Scholarship, Peking University	2018
WWDC Scholarship, Apple Inc.	2018
Meritorious Winner, COMAP's Interdisciplinary Contest in Modeling	2018
Gold Prize and Best Information Processing Project Nomination, iGEM Competition	2017

Updated September 2025