Wentao Zhu

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EDUCATION

Peking University Ph.D. Student, 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
WORK 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

Computer Vision, Artificial Intelligence, Social Cognition

PREPRINTS

- 1. H. Wang*, **W. Zhu***, L. Miao, Y. Xu, F. Gao, Q. Tian, and Y. Wang, "Aligning Human Motion Generation with Human Perceptions," arXiv preprint arXiv: 2407.02272.
- 2. Z. Li, X. Ma, Q. Shang, **W. Zhu**, H. Ci, Y. Qiao, and Y. Wang, "Efficient Action Counting with Dynamic Queries," arXiv preprint arXiv:2403.01543.
- 3. X. Ma, J. Su, Y. Xu, **W. Zhu**, C. Wang, and Y. Wang, "VMarker-Pro: Probabilistic 3D Human Mesh Estimation from Virtual Markers," arXiv preprint arXiv: 2303.11726v3.

PUBLICATIONS

- 1. S. Ban, J. Fan, X. Ma, **W. Zhu**[†], Y. Qiao[†], and Y. Wang, "Real-time Holistic Robot Pose Estimation with Unknown States," ECCV 2024.
- 2. **W. Zhu**, Z. Zhang, and Y. Wang, "Language Models Represent Beliefs of Self and Others," ICML 2024.
- 3. Y. Xu, X. Ma, J. Su, **W. Zhu**, Y. Qiao, and Y. Wang, "ScoreHypo: Probabilistic Human Mesh Estimation with Hypothesis Scoring," CVPR 2024.
- 4. **W. Zhu***, X. Ma*, D. Ro*, H. Ci, J. Zhang, J. Shi, F. Gao, Q. Tian, and Y. Wang, "Human Motion Generation: A Survey," T-PAMI 2023.
- 5. **W. Zhu***, J. Qin*, Y, Lou, H. Ye, X. Ma, H. Ci, and Y. Wang, "Social Motion Prediction with Cognitive Hierarchies," NeurIPS 2023.
- 6. 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," NeurIPS 2023.
- 7. **W. Zhu**, X. Ma, Z. Liu, L. Liu, W. Wu, and Y. Wang, "MotionBERT: A Unified Perspective on Learning Human Motion Representations," ICCV 2023.
- 8. H. Ci, M. Wu, **W. Zhu**, X. Ma, H. Dong, F. Zhong, and Y. Wang, "GFPose: Learning 3D Human Pose Prior with Gradient Fields," CVPR 2023.
- 9. X. Ma, C. Wang, J. Su, **W. Zhu**, and Y. Wang, "3D Human Mesh Estimation from Virtual Markers," CVPR 2023.
- 10. H. Ye*, **W. Zhu***, C. Wang, R. Wu, and Y. Wang, "Faster VoxelPose: Real-time 3D Human Pose Estimation by Orthographic Projection," ECCV 2022.
- 11. 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," ECCV 2022.
- 12. **W. Zhu***, Z. Yang*, Z. Di, W. Wu, Y. Wang, and C. C. Loy, "MoCaNet: Motion Retargeting in-the-wild via Canonicalization Networks," AAAI 2022.
- 13. Z. Yang*, **W. Zhu***, W. Wu, C. Qian, Q. Zhou, B. Zhou, and C. C. Loy, "TransMoMo: Invariance-Driven Unsupervised Video Motion Retargeting," CVPR 2020.

SERVICES

Reviewer / PC Member

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

Journal: TPAMI, IJCV, TOG, TVCG, TIP

^{* =} equal contributions, † = corresponding author.

Workshop Organization

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	
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 October 2024