

Jian Wang

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📖 SUMMARY OF MY RESEARCH WORKS

PhD topic Egocentric Human Motion Capture

Details My works mainly aims at capturing human motion from head-mounted egocentric fisheye camera, including (1) global motion estimation with generative motion prior (2) creating various synthetic and in-the-wild egocentric dataset (3) modeling egocentric human-scene interactions and (4) expressive human motion capture. Furthermore, my recent works extends beyond (1) human motion capture from stereo egocentric camera and (2) reconstructing photo-realistic motion-dependent appearance from egocentric view.

Research Interest Egocentric Vision, Human Motion Capture, Human Appearance Reconstruction, Program Verification.

🎓 EDUCATION

MAX PLANCK INSTITUTE FOR INFORMATICS

APRIL 2020 - PRESENT

Ph.D. Student in Computer Vision and Computer Graphics

INSTITUTE OF SOFTWARE, CHINESE ACADEMY OF SCIENCES

SEPTEMBER 2016 - JULY 2019

Master's Degree of Science in Engineering

GPA: 3.68/4.00, Rank: 11/105

★ High Performance Scholarship in 2018 (Top 10%)

PEKING UNIVERSITY

SEPTEMBER 2012 - JULY 2016

Bachelor Degree of Science in Chemistry

GPA: 3.44/4.00, Rank: 40/154

★ Pioneer Scholarship in 2013 (Top 20%)

🔬 RESEARCH PAPERS

- [1] **Wang, J.**, Luvizon, D., Xu, W., Liu, L., Sarkar, K. and Theobalt, C., 2023. Scene-aware Egocentric 3D Human Pose Estimation. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. (**CVPR**).
- [2] Akada, H., **Wang, J.**, Shimada, S., Takahashi, M., Theobalt, C. and Golyanik, V., 2022, October. UnrealEgo: A new dataset for robust egocentric 3d human motion capture. In *European Conference on Computer Vision*. (**ECCV**).
- [3] **Wang, J.**, Liu, L., Xu, W., Sarkar, K., Luvizon, D. and Theobalt, C., 2022. Estimating egocentric 3d human pose in the wild with external weak supervision. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. (**CVPR**).
- [4] **Wang, J.**, Liu, L., Xu, W., Sarkar, K. and Theobalt, C., 2021. Estimating egocentric 3d human pose in global space. In *Proceedings of the IEEE/CVF International Conference on Computer Vision*. (**ICCV Oral**).
- [5] **Wang, J.**, Zhong, Y., Li, Y., Zhang, C. and Wei, Y., 2019. Re-identification supervised texture generation. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. (**CVPR**).
- [6] Chen, M., **Wang, J.**, An, J., Zhan, B., Kapur, D. and Zhan, N., 2019, August. NIL: learning nonlinear interpolants. In *International Conference on Automated Deduction*. (**CADE**).
- [7] **Wang, J.**, An, J., Chen, M., Zhan, N., Wang, L., Zhang, M. and Gan, T., 2020. From model to implementation: a network algorithm programming language. *Science China Information Sciences*, 63, pp.1-17.

INTERNSHIP EXPERIENCES

- RESEARCH INTERN 2019.11 - 2020.04
Max Planck Institute for Informatics
Performed Research in ego-centric motion capture.
- RESEARCH INTERN 2018.06 - 2018.11
Face++ (Megvii Technology Ltd.)
Performed Research in 3D human body reconstruction and new methods to generate human textures from a single image.
- RESEARCH INTERN 2017.10 - 2018.02
Institute of Automation, Chinese Academy of Sciences
Employed reinforcement learning algorithms for micro- and macro-management in the StarCraft combat environment.
- SOFTWARE ENGINEER INTERN 2016.12 - 2017.06
Baidu Online Network Technology (Beijing) Co., Ltd.
Designed the table line detection algorithm and developed the table OCR system serving thousands of consumers.

★ MISCELLANEOUS

Invited Talks Joint Ego4D & EPIC workshop @ ICCV2021, CVPR 2022, and CVPR 2023

Reviewer Experience CVPR 2022 and ECCV 2022

Teaching Experience Computer Vision and Machine Learning for Computer Graphics in 2021, 2022, and 2023