Wei Mao, Australian National University

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115 North Rd, Canberra, Australia, ACT 2601

Education

2018 – present	**Ph.D., Australian National University, Canberra, Australia.** (Expected to get the certificate at Jul. 2023) Research topic: *3D Human Understanding* Supervisor: Dr. Miaomiao Liu. Also closely work with: Dr. Mathieu Salzmann, Prof. Hongdong Li Thesis: Human Motion Prediction: From Deterministic to Stochastic
2016 – 2018	**Master of computing (advanced), Australian National University, Canberra, Australia.** Specialisations: Artificial Intelligence
2009 – 2013	**B.S., East China University of Science and Technology, Shanghai, China.** Major: Information Engineering

Employment History

2022 – present	**Post-doc, Australian National University, Canberra, Australia.** (Expected to finish at Jan. 2024) Supervisor: Prof. Richard Hartley, Dr. Miaomiao Liu
2013 – 2016	**Software Engineer.** Dongyuan Computer Automation Engineering Co.,Ltd., Shanghai, China

Publications

Journal Articles

1. **Mao, W.**, Liu, M., Salzmann, M., & Li, H. (2021). Multi-level motion attention for human motion prediction. *International Journal of Computer Vision*.

2. Yang, J., **Mao, W.**, Alvarez, J. M., & Liu, M. (2021). Cost volume pyramid based depth inference for multi-view stereo. *IEEE Transactions on Pattern Analysis and Machine Intelligence*.

Conference Proceedings

1. Gao, H., **Mao, W.**, & Liu, M. (2023). Visfusion: visibility-aware online 3d scene reconstruction from videos. In *Proceedings of the ieee/cvf conference on computer vision and pattern recognition*.

2. Wang, R., **Mao, W.**, & Li, H. (2023). Interacting hand-object pose estimation via dense mutual attention. In *Proceedings of the ieee/cvf winter conference on applications of computer vision*.

3. **Mao, W.**, Liu, M., Hartley, R., & Salzmann, M. (2022). Contact-aware human motion forecasting. In *Advances in neural information processing systems*.

4. **Mao, W.**, Liu, M., & Salzmann, M. (2022). Weakly-supervised action transition learning for stochastic human motion prediction. In *Proceedings of the ieee/cvf conference on computer vision and pattern recognition*.

5. **Mao, W.**, Liu, M., & Salzmann, M. (2021). Generating smooth pose sequences for diverse human motion prediction. In *Proceedings of the ieee/cvf international conference on computer vision* (pp. 13309–13318).

6   **Mao, W.**, Liu, M., & Salzmann, M. (2020). History repeats itself: human motion prediction via motion attention. In *European conference on computer vision.*

7   Yang, J., **Mao, W.**, Alvarez, J. M., & Liu, M. (2020). Cost volume pyramid based depth inference for multi-view stereo. In *Proceedings of the ieee/cvf conference on computer vision and pattern recognition.*

8   **Mao, W.**, Liu, M., Salzmann, M., & Li, H. (2019). Learning trajectory dependencies for human motion prediction. In *Proceedings of the ieee/cvf international conference on computer vision.*

Teaching

2022	**Guest Lecturer:** Advanced Computer Vision (ENGN8501), ANU.
2021	**Tutor:** Artificial Intelligence (COMP3620), Computer Vision (ENGN6528), ANU.
2019	**Tutor:** Computer Vision (ENGN6528), ANU.
2018	**Tutor:** Artificial Intelligence(COMP3620), Relational Database (COMP6240), ANU.
2017	**Tutor:** Relational Database (COMP6240), ANU.

Academic Service

Reviewer   **CVPR:** 2021,2022,2023
ICCV: 2021,2023
IJCAI: 2022,2023
ICML: 2022,2023
NeurIPS: 2021,2022
RAL: 2021,2022,2023

Honour

2022	**CVPR Outstanding Reviewer**
2019	**ICCV Student Travel Award**