

Wei Mao, Australian National University

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115 North Rd, Canberra, Australia, ACT 2601

Education

- 2018 – 2022 📖 **Ph.D., Australian National University, Canberra, Australia.**
Research topic: *3D Human Understanding*
Supervisor: Dr. Miaomiao Liu.
Thesis: Human Motion Prediction: From Deterministic to Stochastic
- 2016 – 2018 📖 **Master of Computing (advanced), Australian National University, Canberra, Australia.**
Specialisations: Artificial Intelligence
- 2009 – 2013 📖 **Bachelor of Engineering, East China University of Science and Technology, Shanghai, China.**
Major: Information Engineering

Employment History

- 2022 – present 📖 **Postdoc, Australian National University, Canberra, Australia.**
(Expect 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**