Wei Mao, Australian National University

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https://wei-mao-2019.github.io/home/
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Education

2018 – 2022 **Ph.D., Australian National University, Canberra, Australia.**
Research topic: *3D Human Understanding*
Supervisor: Dr. Miaomiao Liu.
Working closely with Dr. Mathieu Salzmann from EPFL
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**