






# Wei Mao, Australian National University

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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 (IJCV)*.
- 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 (TPAMI)*.






### Conference Proceedings

- 1    Gao, H., **Mao, W.**, & Liu, M. (2023). *Visfusion: visibility-aware online 3d scene reconstruction from videos*. Conference on Computer Vision and Pattern Recognition (CVPR).
- 2    Wang, R., **Mao, W.**, & Li, H. (2023). *Interacting hand-object pose estimation via dense mutual attention*. Winter Conference on Applications of Computer Vision (WACV).
- 3    **Mao, W.**, Liu, M., Hartley, R., & Salzmann, M. (2022). *Contact-aware human motion forecasting*. Advances in Neural Information Processing Systems (NeurIPS).
- 4    **Mao, W.**, Liu, M., & Salzmann, M. (2022). *Weakly-supervised action transition learning for stochastic human motion prediction*. Conference on Computer Vision and Pattern Recognition (CVPR).
- 5    **Mao, W.**, Liu, M., & Salzmann, M. (2021). *Generating smooth pose sequences for diverse human motion prediction*. International Conference on Computer Vision (ICCV).

- 6 **Mao, W.**, Liu, M., & Salzmann, M. (2020). *History repeats itself: human motion prediction via motion attention*. European Conference on Computer Vision (ECCV).
- 7 Yang, J., **Mao, W.**, Alvarez, J. M., & Liu, M. (2020). *Cost volume pyramid based depth inference for multi-view stereo*. Conference on Computer Vision and Pattern Recognition (CVPR).
- 8 **Mao, W.**, Liu, M., Salzmann, M., & Li, H. (2019). *Learning trajectory dependencies for human motion prediction*. International Conference on Computer Vision (ICCV).


## Teaching

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- 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

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

## Honour

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