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.

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: Dr. Miaomiao Liu, Prof. Richard Hartley.

2013 − 2016 Software Engineer, Dongyuan Computer Automation Engineering Co.,Ltd., Shanghai, China

Publications

Journal Articles

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

- 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*.
- 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*.
- 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*.
- 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).

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