

毛伟, 腾讯 XR Vision Lab, 堪培拉

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教育

- 2018 – 2022 ■ 博士, **Australian National University** (澳国立), 澳大利亚, 堪培拉.
主要方向: *3D Human Understanding*
导师: Dr. Miaomiao Liu.
合作作者: Dr. Mathieu Salzmann from 洛桑联邦理工
毕业论文: Human Motion Prediction: From Deterministic to Stochastic
- 2016 – 2018 ■ 计算机硕士, **Australian National University** (澳国立), 澳大利亚, 堪培拉.
专业: 人工智能
- 2009 – 2013 ■ 本科, 华东理工大学, 中国, 上海.
专业: 信息工程

工作

- 2024 – now ■ 高级研究员, 腾讯 XR Vision Lab, 澳大利亚, 堪培拉.
工作内容: 3D AIGC for games.
- 2022 – 2024 ■ 博后, **Australian National University** (澳国立), 澳大利亚, 堪培拉.
导师: Prof. Richard Hartley, Dr. Miaomiao Liu.
- 2013 – 2016 ■ 软件工程师, 上海东源计算机自动化工程有限公司

论文

在国际顶级期刊和会议上发表了超过 10 篇文章, 其中有 5 篇被选为 ORAL/Spotlight (<5% 的接受率)







期刊

- 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)*.


会议

- 1 **Mao, W.**, Hartley, R., Mathieu, S., & Liu, M. (2024). *Neural sdf flow for 3d reconstruction of dynamic scenes*. The International Conference on Learning Representations (ICLR).
- 2 Gao, H., **Mao, W.**, & Liu, M. (2023). *Visfusion: Visibility-aware online 3d scene reconstruction from videos*. Conference on Computer Vision; Pattern Recognition (CVPR).
- 3 Wang, R., **Mao, W.**, & Li, H. (2023a). *Deepsimho: Stable pose estimation for hand-object interaction via physics simulation*. Neural Information Processing Systems (NeurIPS).
- 4 Wang, R., **Mao, W.**, & Li, H. (2023b). *Interacting hand-object pose estimation via dense mutual attention*. Winter Conference on Applications of Computer Vision (WACV).
- 5 **Mao, W.**, Liu, M., Hartley, R., & Salzmann, M. (2022). *Contact-aware human motion forecasting*. Advances in Neural Information Processing Systems (NeurIPS) **Spotlight**.
- 6 **Mao, W.**, Liu, M., & Salzmann, M. (2022). *Weakly-supervised action transition learning for stochastic human motion prediction*. Conference on Computer Vision; Pattern Recognition (CVPR) **ORAL**.
- 7 **Mao, W.**, Liu, M., & Salzmann, M. (2021). *Generating smooth pose sequences for diverse human motion prediction*. International Conference on Computer Vision (ICCV) **ORAL**.
- 8 **Mao, W.**, Liu, M., & Salzmann, M. (2020). *History repeats itself: Human motion prediction via motion attention*. European Conference on Computer Vision (ECCV).
- 9 Yang, J., **Mao, W.**, Alvarez, J. M., & Liu, M. (2020). *Cost volume pyramid based depth inference for multi-view stereo*. Conference on Computer Vision; Pattern Recognition (CVPR) **ORAL**.
- 10 **Mao, W.**, Liu, M., Salzmann, M., & Li, H. (2019). *Learning trajectory dependencies for human motion prediction*. International Conference on Computer Vision (ICCV) **ORAL**.




教学

- 2023  **客座讲师:** Advanced Computer Vision (ENGN8501), ANU.
- 2022  **客座讲师:** Advanced Computer Vision (ENGN8501), ANU.
- 2021  **助教:** Artificial Intelligence (COMP3620), Computer Vision (ENGN6528), ANU.
- 2019  **助教:** Computer Vision (ENGN6528), ANU.
- 2018  **助教:** Artificial Intelligence (COMP3620), Relational Database (COMP6240), ANU.
- 2017  **助教:** Relational Database (COMP6240), ANU.

学术活动

审稿人  **CVPR:** 2021,2022,2023; **ICCV:** 2021,2023; **IJCAI:** 2022,2023; **ICML:** 2022,2023;
NeurIPS: 2021,2022; **RAL:** 2021,2022,2023; **ICLR:** 2024.

荣誉

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