Yuran Wang

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Education

2025.09 – now **Master. Peking University**
Major: Artificial Intelligence.

2021.9 – 2025.06 **Bachelor. Southeast University**
Major: Computer Science and Technology.

Main Publications

1. **Yuran Wang***, Ruihai Wu*, Yue Chen*, Jiarui Wang, Jiaqi Liang, Ziyu Zhu, Haoran Geng, Jitendra Malik, Pieter Abbeel, and Hao Dong, "Dexgarmentlab: Dexterous garment manipulation environment with generalizable policy," in *Advances in Neural Information Processing Systems* (***NeurIPS Spotlight***) *and IROS RAMODO Workshop* ***Best Paper Finalist***, 2025.
Project page: https://wayrise.github.io/DexGarmentLab/.

2. Ruihai Wu*, Ziyu Zhu*, **Yuran Wang***, Yue Chen, Jiarui Wang, and Hao Dong, "Garmentpile: Point-level visual affordance guided retrieval and adaptation for cluttered garments manipulation," in *Proceedings of the Computer Vision and Pattern Recognition Conference* (***CVPR***) *and IROS RAMODO Workshop* ***Best Paper Finalist***, 2025, pp. 6950–6959.
Project page: https://garmentpile.github.io/.

3. Mingleyang Li*, **Yuran Wang***, Yue Chen, Tianxing Chen, Jiaqi Liang, Zishun Shen, Haoran Lu, Ruihai Wu, and Hao Dong, "Garmentpile++: Affordance-driven cluttered garments retrieval with vision-language reasoning," in *IEEE International Conference on Robotics & Automation* (***ICRA***), 2026.
Project page: https://garmentpile2.github.io/.

4. Zeyi Li, Yushi Yang, Shawn Xie, Jingkai Xu, Tianxing Chen, **Yuran Wang**, Zhenhao Shen, Yan Shen, Wenjun Li, Yukun Zheng, Chaorui Zhang, Siyi Lin, Fei Teng, Hongjun Yang, Ming Chen, Steve Xie, and Ruihai Wu, "Lehome: A simulation environment for deformable object manipulation in household scenarios," in *IEEE International Conference on Robotics & Automation* (***ICRA***) *and IROS RAMODO workshop* ***Best Paper***, 2026.
Project page: https://lehome-web.github.io/.

5. Tianxing Chen*, **Yuran Wang***, Mingleyang Li*, Yan Qin*, Hao Shi, Zixuan Li, Yifan Hu, YingSheng Zhang, Kaixuan Wang, Yue Chen, Hongcheng Wang, Renjing Xu, Ruihai Wu, Yao Mu, Yaodong Yang, Hao Dong, and Ping Luo, "Rmbench: Memory-dependent robotic manipulation benchmark with insights into policy design," in *International Conference on Machine Learning* (***ICML Under Review***), 2026.
Project page: https://rmbench.github.io/.

Other Publications

1. Roboverse Team, "Roboverse: Towards a unified platform, dataset and benchmark for scalable and generalizable robot learning," in *Robotics Science and Systes* (***RSS***), 2025.

2. Jiayuan Zhang, Ruihai Wu, Haojun Chen, **Yuran Wang**, Yifan Zhong, Ceyao Zhang, Yaodong Yang, and Yuanpei Chen, "Dexknot: Generalizable visuomotor policy learning for dexterous bag-knotting," in *IEEE International Conference on Robotics & Automation* (***ICRA***), 2026.

3. Ziyu Zhu, Ruihai Wu, Yue Chen, Xirui Liang, Hojin Bae, **Yuran Wang**, and Hao Dong, "Sparse meets dense: Correspondence guided robotic manipulation with rigid-deformable interactions," in *IEEE International Conference on Robotics & Automation* (***ICRA***), 2026.

4. Jinxuan Zhu, Chenrui Tie, Xinyi Cao, **Yuran Wang**, Jingxiang Guo, Zixuan Chen, Haonan Chen, Junting Chen, Yangyu Xiao, Ruihai Wu, and Lin Shao, "Adaptpnp: Integrating prehensile and non-prehensile skills for adaptive robotic manipulation," in *IEEE International Conference on Robotics & Automation* (***ICRA***), 2026.

5. Haifeng Zhong, Wenshuo Han, Zhouyu Wang, Runyang Feng, Fan Tang, Tong-Yee Lee, Zipei Fan, Ruihai Wu, **Yuran Wang**, Hao Dong, Hechang Chen, Hyung Jin Chang, and Yixing Gao, "Graspall: Adaptive structural compensation from luminance variation for robotic garment grasping in any low-light conditions," in *Proceedings of the Computer Vision and Pattern Recognition Conference* (***CVPR***), 2026.

6. Xingyu Zhu, Wenshuo Han, Zhouyu Wang, **Yuran Wang**, Ruihai Wu, Hao Dong, Fan Tang, Hechang Chen, Hyung Jin Chang, and Yixing Gao, "Flatlab: A unified methodology framework and simulation-based benchmark for robotic manipulation of flat objects," in *International Conference on Machine Learning* (***ICML Under Review***), 2026.

7. Zhenhao Shen, Zeming Yang, Yue Chen, **Yuran Wang**, Shengqiang Xu, Mingleyang Li, Hao Dong, and Ruihai Wu, "Omnigenmanip: Generalizable manipulation with omni-type object interactions via foundation models," in *IEEE Transactions on Robotics* (***T-RO Under Review***), 2026.

8. Xirui Liang, Jingkai Xu, Ruochong Li, Jiaqi Liang, **Yuran Wang**, Yuanpei Chen, Masayoshi Tomizuka, Wei Zhan, and Ruihai Wu, "Adadexgrasp: Adaptive dexterous grasping via 3d visuo-tactile representation fusion," in *Proceedings of the Computer Vision and Pattern Recognition Conference* (***ECCV Under Review***), 2026.

International Experience

Lehome Challenge @ ICRA 2026

status: **1st Simulation-Driven Competition on Deformable Object Manipulation**
Organizer: Ruihai Wu, **Yuran Wang**, Zeyi Li, Yue Chen, Shawn Xie, Kyle Xu, Shugao Liu, Alberta Longhini, Haoran Lu.
Challenge Page: https://lehome-challenge.com/

Cambridge University Visiting

Course: PBL "System Design & Engineer Thinking +"
Duration: 14 days
Research Content: analyzes how to build a product from scratch; focuses on user needs and market characteristics to conduct product feasibility analysis and design.

Miscellaneous Experience

Honors

2025 **Excellent Student Leader**, Jiangsu Province.

Most Influential Graduate, Southeast University.

2024 **Chien-Shiung Outstanding Student**, Southeast University.

Miscellaneous Experience (continued)

2023 **Merit Student**, Southeast University.

Awards

2024 **First Prize (National Level)**, China University Computer Design Competition.

2023 **Third Prize (National Level)**, National Undergraduate Mathematics Competition.

Skills

Languages English: CET-4(632), CET-6(562), IELTS(7.0)

Coding C++, Python, LaTeX, Markdown