

Weijie Wang

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Research interests: efficient large 3D models and world models.

EDUCATION

- **Zhejiang University** Hangzhou, China
Ph.D. in Computer Science and Technology, State Key Laboratory of CAD & CG
Advisor: Prof. Bohan Zhuang
09/2025 - Present
- **Zhejiang University** Hangzhou, China
B.E. in College of Computer Science and Technology & Chu Kochen Honors College
GPA: 91.2/100
09/2021 - 06/2025

EXPERIENCE

- **Research Intern**, ByteDance Seed 01/2026 - Present
Advisors: Jianfeng Zhang and Qianyi Wu
- **Research Intern**, Microsoft Research Asia 07/2025 - 01/2026
Advisors: Yuqing Yang, Yifan Yang, and Zhiyuan He

PUBLICATIONS

* denotes equal contribution. † denotes corresponding authors.

- **Latent Spatial Memory for Video World Models** arXiv preprint
W. Wang*, H. Zhao*, Y. Yang, F. Chen, Z. Zhang, Y. He, Z. Duan, D. Y. Chen, Y. Yang, B. Zhuang†
- **TriSplat: Simulation-Ready Feed-Forward 3D Scene Reconstruction** arXiv preprint
W. Wang*, Z. Li*, J. Shi, Z. Zhang, B. Ye, M. Pollefeys, D. Y. Chen, B. Zhuang†
- **Feed-Forward 3D Scene Modeling: A Problem-Driven Perspective** arXiv preprint
W. Wang*, Q. Cao*, S. Gao*, D. Y. Chen, H. Xu, W. Bian, S. Peng, T.-J. Cham, C. Zheng, A. Geiger, J. Cai, J.-W. Bian†, B. Zhuang†
- **World-R1: Reinforcing 3D Constraints for Text-to-Video Generation** ICML 2026
W. Wang*, X. He*, Y. Gu*, Y. Yang†, Z. Zhang, Y. He, Y. Ding, X. Hu, D. Y. Chen, Z. He, Y. Yang†, B. Zhuang†
- **DriveGen3D: Boosting Feed-Forward Driving Scene Generation with Efficient Video Diffusion** ICME 2026 Oral
W. Wang*, J. Zhu*, Z. Zhang, X. Wang, Z. Zhu†, G. Zhao, C. Ni, H. Wang, G. Huang, X. Chen, Y. Zhou, W. Qin, D. Shi, H. Li, Y. Xiao, D. Y. Chen, J. Lu
- **VolSplat: Rethinking Feed-Forward 3D Gaussian Splatting with Voxel-Aligned Prediction** ECCV 2026
W. Wang*, Y. Chen*, Z. Zhang, H. Liu, H. Wang, Z. Feng, W. Qin, J.-W. Bian, Z. Zhu†, D. Y. Chen, B. Zhuang†
- **ZPressor: Bottleneck-Aware Compression for Scalable Feed-Forward 3DGS** NeurIPS 2025
W. Wang†, D. Y. Chen†, Z. Zhang, D. Shi, A. Liu, B. Zhuang
- **CoV: Chain-of-View Prompting for Spatial Reasoning** ACL 2026 Findings
H. Zhao*, A. Liu*, Z. Zhang*, W. Wang*, F. Chen, R. Zhu, G. Haffari, B. Zhuang†
- **Revisiting Depth Representations for Feed-Forward 3D Gaussian Splatting** 3DV 2026
D. Shi*, W. Wang*, D. Y. Chen, Z. Zhang, J.-W. Bian, B. Zhuang†
- **WonderTurbo: Generating Interactive 3D World in 0.72 Seconds** ICCV 2025
C. Ni*, X. Wang*, Z. Zhu†, W. Wang*, H. Li, G. Zhao, J. Li, W. Qin, G. Huang, W. Mei†
- **Diffusion Model as a Generalist Segmentation Learner** ECCV 2026
Haoxiao Wang*, Antao Xiang*, Haiyang Sun*, Peilin Sun, Changhao Pan, Yifu Chen, Minjie Hong, Weijie Wang, Shuang Chen, Yue Chen, Zhou Zhao†
- **Flash-GRPO: Efficient Alignment for Video Diffusion via One-Step Policy Optimization** ICML 2026
X. He*, S. Fu*, Z. Xue*, W. Wang, R. He, Y. Li, D. Yin, S. Dong, H. Huang, H. Wang, N. Duan, B. Zhuang†
- **Seeing Across Views: Benchmarking Spatial Reasoning of Vision-Language Models in Robotic Scenes** ICLR 2026
Z. Feng*, Z. Kang*, Q. Wang, Z. Du, J. Yan, S. Shi, C. Yuan, H. Liang, Y. Deng, Q. Li, R. Yang, A. An, L. Zheng, W. Wang, S. Chen, S. Xu, Y. Liang, J. Yang†, B. Guo

- **Advancing Multimodal Reasoning: From Optimized Cold Start to Staged Reinforcement Learning** ICLR 2026
S. Chen^{*}, Y. Guo^{*}, Z. Su, Y. Li, Y. Wu, J. Chen, J. Chen, W. Wang, X. Qu[†], Y. Cheng[†]
- **TransDiff: Diffusion-Based Method for Manipulating Transparent Objects Using a Single RGB-D Image** ICRA 2025
H. Wang^{*}, K. Zhou^{*}, B. Gu, Z. Feng, W. Wang, P. Sun, Y. Xiao, J. Zhang, H. Dong[†]
- **Street Gaussians: Modeling Dynamic Urban Scenes with Gaussian Splatting** ECCV 2024
Y. Yan, H. Lin, C. Zhou, W. Wang, H. Sun, K. Zhan, X. Lang, X. Zhou, S. Peng[†]

AWARDS

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- NeurIPS Scholar Award 10/2025
 - Outstanding Graduates of Zhejiang University 06/2025
 - Outstanding Thesis of Zhejiang University 06/2025
 - Zhejiang Government Scholarship 11/2023
 - *Meritorious Winner*, The Interdisciplinary Contest in Modeling 01/2023

ACADEMIC SERVICE

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- **Journal Reviewer:** RA-L, TVCG, TVC
 - **Conference Reviewer:** NeurIPS, ICML, ECCV, SIGGRAPH Asia, 3DV, ICRA, ICME