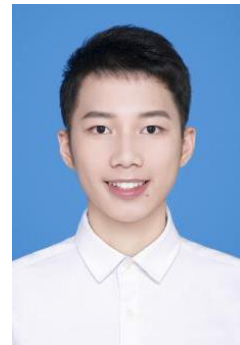


个人信息

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本科学校: 北京航空航天大学机器人工程 研究生学校: 中科院软件所
个人主页: <https://ucwxb.github.io/> 研究方向: 世界模型、VLA



个人陈述

本人现为中国科学院软件研究所直博生（预计 2028 年 6 月毕业），由北京大学计算机学院仇尚航老师与中科院软件所吴恩华老师联合指导。本人研究方向为世界模型、VLA、3D 视觉。截至目前，本人已在 CVPR、ICCV、ICLR、ECCV、AAAI 等顶级 AI 会议发表学术论文 30 余篇，其中以第一作者（含共同一作）发表 CCF-A 类论文 12 篇，并获得 ICCV Highlight、ACM MM Oral。相关开源研究成果在 GitHub 累计获得 700+ Stars，学术引用突破 800 余次(H-Index=16)，担任 CVPR、NeurIPS、ICML 等十余个顶会顶刊审稿人，相关算法成果已实现业务验证与应用落地。此外，本人曾获国家奖学金、北京市优秀毕业生等 30 余项荣誉。

各类荣誉

北京市优秀毕业生	2019-2023
校三好学生、优秀党员	2019-2022
国家奖学金	2020-2022

实习经历

[1] Ai2Robotics 智平方科技: 自动驾驶场景重建	2023.07-2023.09
[2] 云天励飞: AI 4 Science	2023.09-2024.01
[3] AMD 超威半导体公司: 端到端自动驾驶	2024.01-2024.06
[4] 蔚来汽车: 自动驾驶世界模型 (实习小组负责人)	2024.06-2025.06
[5] 小米汽车: 自动驾驶基座模型 (小米未来星实习)	2025.06-2025.12
[6] 北京智源研究院: VLA 视觉预训练	2025.12-2026.04
[7] 北京亦庄人形机器人研究院: 4D 世界模型	2026.04-至今

科研论文

World Model:

- [1] WAM4D: Fast 4D World Action Model via Spatial Register Tokens – CoRL (一作)
- [2] Manipdreamer3d: Synthesizing plausible robotic manipulation video with occupancy-aware 3d trajectory – AAI 2026 (一作)
- [3] Rethinking Driving World Model as Synthetic Data Generator for Perception Tasks – ICLR 2026 (Project Leader)
- [4] ManipDreamer: Boosting Robotic Manipulation World Model with Action Tree and Visual Guidance – ICASSP 2026 (一作)
- [5] PhyMix: Towards Physically Consistent Single-Image 3D Indoor Scene Generation with Implicit-Explicit Optimization – ECCV 2026

VLA:

- [6] EvoDriveVLA: Evolving Driving VLA Models via Collaborative Perception-Planning Distillation – NeurIPS (一作)
- [7] GraspFoM: Towards Reconstruction-Driven Robotic Grasping with 3D Foundation Priors – ACM MM (一作)
- [8] VEGA: Visual Encoder Grounding Alignment for Spatially-Aware Vision-Language-Action Models – NeurIPS
- [9] Fastdrivevla: Efficient end-to-end driving via plug-and-play reconstruction-based token pruning – AAAI 2026
- [10] PIGEON: VLM-Driven Object Navigation via Points of Interest Selection – RA-L 2026

3D Vision:

- [11] ParkGaussian: Surround-view 3D Gaussian Splatting for Autonomous Parking – CVPR 2026 (一作)
- [12] GazeGaussian: High-Fidelity Gaze Redirection with 3D Gaussian Splatting – ICCV 2025 Highlight (一作)
- [13] EMD: Explicit Motion Modeling for High-Quality Street Gaussian Splatting – ICCV 2025 (一作)
- [14] Nto3d: Neural target object 3d reconstruction with segment anything – CVPR 2024 (一作)
- [15] I-medsam: Implicit medical image segmentation with segment anything – ECCV 2024 (一作)
- [16] Graphavatar: Compact head avatars with gnn-generated 3d gaussians - AAAI 2025 (一作)
- [17] Embodiedocc++: Boosting embodied 3d occupancy prediction with plane regularization and uncertainty sampler – ACM MM 2025 Oral (一作)
- [18] S3Gaussian: Self-Supervised Street Gaussians for Autonomous Driving – ICRA 2026 (一作)
- [19] SparseStreet: Sparse Gaussian Splatting for Real-Time Street Scene Simulation – ICMR 2026 (一作)
- [20] Omniindoor3d: Comprehensive indoor 3d reconstruction – Pacific Graphics 2026 (一作)
- [21] Feed-Forward Gaussian Splatting from Sparse Aerial Views – ECCV 2026
- [22] DNRSlect: Active Best View Selection for Deferred Neural Rendering – IEEE BigData Conf 2026 (Corresponding Author)
- [23] RSATalker: Realistic Socially-Aware Talking Head Generation for Multi-Turn Conversation – IEEE VR 2026
- [24] DiffusionTalker: Efficient and Compact Speech-Driven 3D Talking Head via Personalizer-Guided Distillation – ICME 2025
- [25] MixedGaussianAvatar: Realistically and Geometrically Accurate Head Avatar via Mixed 2D-3D Gaussian Splatting – ACM MM 2025
- [26] PLGS: Robust Panoptic Lifting with 3D Gaussian Splatting – IEEE TIP 2025

Others (Computer Vision):

- [27] Multi-scale full spike pattern for semantic segmentation - Neural Networks 2024
- [28] Open-Vocabulary 3D Detection via Image-Level Class and Debiased Cross-modal Contrastive Learning – CVPR 2023
- [29] MTTrans: Cross-domain object detection with mean teacher transformer – ECCV 2022
- [30] A generalist foundation model and database for open-world medical image segmentation - Nature Biomedical Engineering 2025