Jian Zhang

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RESEARCH INTERESTS

- **3D-Consistent Content Generation**:
  Multi-View Consistent Video Generation, 3D Scene Generation

- **3D Spatial Understanding & Embodied AI**:
  3D Vision-Language Models, Sparse-view 3D Reconstruction, Embodied Agents

EDUCATION

Xiamen University	Sep. 2023 - Jun. 2026
M.S., Information & Communication Engineering	Advisor: Prof. Yue Huang
Nanchang University	Sep. 2019 - Jun. 2023
B.S., Artificial Intelligence	

SELECTED PUBLICATIONS&MANUSCRIPTS

* denotes an equal contribution.

A. 3D Vision-Language Models:

NeurIPS 2024 (Accepted): **J. Zhang***, Z. Fan*, W. Cong, P. Wang, R. Li, K. Wen, S. Zhou, Achuta Kadambi, Z. Wang, D. Xu, Boris Ivanovic, Marco Pavone, Y. Wang, "Large Spatial Model: End-to-end Unposed Images to Semantic 3D".
[Paper] [Code] [Project Page] (Stars: 195, Citations: 17)

NeurIPS 2025 (Under Review): **J. Zhang***, Z. Fan*, R. Li, J. Zhang, R. Chen, H. Hu, K. Wang, H. Qu, D. Wang, Z. Yan, H. Xu, J. Theiss, T. Chen, J. Li, Z. Tu, Z. Wang, R. Ranjan, "VLM-3R: Vision-Language Models Augmented with Instruction-Aligned 3D Reconstruction".
[Paper] [Code] [Project Page] (Stars: 191)

NeurIPS 2025 (Under Review): K. Wen*, Y. Huang*, R. Chen, et al., **J. Zhang**, et al., Z. Fan, "DynamicVerse: Physically-Aware Multimodal Modeling for Dynamic 4D Worlds".
[Project Page]

AAAI 2025 (Submitted): H. Liu, Z. Fan, C. Li, Y. Liu, W. Li, **J. Zhang**, J. Zhang, A. Alahi, Y. Yuan, "ISM3R: Incremental Semantic Modeling for 3D Reconstruction".

B. Sparse-view 3D Reconstruction:

ArXiv Preprint: Z. Fan*, K. Wen*, W. Cong*, K. Wang, **J. Zhang**, X. Ding, D. Xu, Boris Ivanovic, Marco Pavone, Z. Wang. Y. Wang, "InstantSplat: Sparse-view Gaussian Splatting in Seconds".
[Paper] [Code] [Project Page] (Stars: 1.4k, Citations: 104)

AAAI 2025 (Submitted): S. Yang, Z. Chen, **J. Zhang**, W. Cong, Y. Wang, W. Yang, Z. Wang, Z. Fan, "LiFRecon: LiDAR-Free Dynamic Urban Scene Reconstruction".

SELECTED EXPERIENCE

Baidu Inc.	Aug. 2025 - Present
Research Intern on Video Generation Research	Vision Technology Department
Texas A&M University	May. 2025 - Aug. 2025
Research Assistant on 3D Vision and Embodied Intelligence	Advisor: Prof. Zhiwen Fan
VITA Group, University of Texas at Austin	Jan. 2024 - May. 2025
Research Assistant on 3D Spatial Reconstruction, and Understanding	Advisor: Prof. Atlas Wang

SELECTED HONORS & SERVICES

- Special Scholarship (Top 5%) — 2023
- Outstanding Graduate of Nanchang University (Top 5%) — 2023
- First Prize in China Robot Competition (Top 3) — 2021
- Conference Reviewer: NeurIPS'24/25, ICML'25, ICLR'25