Jian Zhang

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RESEARCH INTERESTS

- **Embodied AI & Spatial Intelligence**:
  3D Vision-Language Models, Embodied Agent
- **3D Reconstruction & Generation**:
  Sparse-view 3D Scene Reconstruction, Multi-View Consistent Generation

EDUCATION

Xiamen University (XMU) Sep. 2023 - Jun. 2026
M.S., Information & Communication Engineering Advisor: Prof. Xinghao Ding & Prof. Yue Huang

Nanchang University (NCU) 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

Texas A&M University (TAMU) Jun. 2025 - Present
Research Assistant on 3D Vision and Embodied Intelligence Advisor: Prof. Zhiwen Fan

VITA Group, University of Texas Austin (UT 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