

Jinpeng LIU

Final-year M.S. Student
Data Science, Tsinghua University

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EDUCATION

- **Tsinghua University** P.R. China
M.S. Student of Computer Science 09/2022 - now
Supervisor: [Prof. Yansong Tang](#) Service: Leader of Multimodal Generation and Interaction Group
Research: 3D Object & Motion Generation
- **Sun Yat-sen University** P.R. China
Bachelor of Intelligent Science and Technology 09/2018 - 09/2022
Research: Medical Imaging

PREPRINTS

- **NovelGS: Consistent Novel-view Denoising via Large Gaussian Reconstruction Model.**
Jinpeng Liu, Jiale Xu, Weihao Cheng, Yiming Gao, Xintao Wang, Ying Shan, Yansong Tang.
Under Review [\[paper\]](#) 3D Generation Diffusion
- **FLAG3D++: A Benchmark for 3D Fitness Activity Comprehension with Language Instruction.**
Yansong Tang, Aoyang Liu, Jinpeng Liu, Shiyi Zhang, Wenxun Dai, Jie Zhou, Xiu Li, Jiwen Lu.
Under Review TPAMI [\[code\]](#) 3D Generation Video Understanding

PUBLICATIONS

- **Posture, Plan and Go: Towards Open-world Motion Generation.**
Jinpeng Liu, Wenxun Dai, Chunyu Wang, Yiji Cheng, Yansong Tang, Xin Tong.
ECCV 2024 [\[paper\]](#) | [\[project page\]](#) 3D Generation LLMs Diffusion
- **FLAG3D: A 3D Fitness Activity Dataset with Language Instruction.**
Jinpeng Liu*, Yansong Tang*, Aoyang Liu*, Bin Yang, Wenxun Dai, Yongming Rao, Jiwen Lu, Jie Zhou, Xiu Li.
CVPR 2023 [\[paper\]](#) | [\[code\]](#) | [\[project page\]](#) 3D Generation Video Understanding
- **MotionLCM: Realtime Controllable Motion Generation via Latent Consistency Model.**
Wenxun Dai, Ling-Hao Chen, Jingbo Wang, Jinpeng Liu, Bo Dai, Yansong Tang.
ECCV 2024 [\[paper\]](#) | [\[code\]](#) | [\[project page\]](#) 3D Generation Diffusion
- **Toward robust diagnosis: A Contour Attention Preserving Adversarial Defense for COVID-19 detection.**
Kun Xiang, Xing Zhang, Jinwen She, Jinpeng Liu, Haohan Wang, Shiqi Deng, Shancheng Jiang.
AAAI 2023 [\[paper\]](#) | [\[code\]](#) Medical Image

HIGHLIGHT OPEN-SOURCE PROJECT

- **InstantMesh: Efficient 3D Mesh Generation from a Single Image** [🔗](#)
Jinpeng Liu (Core Contributor), and Tencent ARC Contributors 3.3k star at Github

PROFESSIONAL EXPERIENCE

- **The University of Texas at Austin** USA
Focus on human mesh recovery in the world coordinate system 7/2024 - now
Supervisor: [Dr. Georgios Pavlakos](#), and [Dr. Qixing Huang](#)
- **Tencent Applied Research Center (ARC Lab)** P.R. China
Focus on 3D object generation 12/2023 - 12/2024 (expected)
Supervisor: [Dr. Xintao Wang](#), and [Dr. Ying Shan](#)
- **Microsoft Research Asia (MSR Asia)** P.R. China
Focus on human motion generation 3/2021 - 11/2023
Supervisor: [Dr. Chunyu Wang](#), and [Dr. Xin Tong](#)

HONORS AND AWARDS

- Jintan Second Prize Scholarship of Tsinghua University (top 10%) Nov. 2023
- Second Prize Scholarship of SYSU (top 15%) Nov. 2021
- Third Prize Scholarship of SYSU (top 30%) Nov. 2019

ACADEMIC SERVICE

- Programming Languages: Python, MATLAB, Shell, LATEX, C++/C, HTML
- Programming Tools: Git, PyTorch, Docker, Linux Ops, Vim

ACADEMIC SERVICE

- **Conference Reviewer or PC Member:**
 - The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR): 2024-2025
 - The International Conference on Learning Representations (ICLR): 2024
 - The Annual AAAI Conference on Artificial Intelligence (AAAI): 2025
 - The IEEE International Conference on Automatic Face and Gesture Recognition (FG): 2023