

# 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](#) and [Prof. Jiwen Lu](#) Service: Leader of Multimodal Generation Group  
Research: 3D Object & Motion Generation
- **Sun Yat-sen University** P.R. China  
Bachelor of Intelligent Science and Technology 09/2018 - 06/2022  
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 [\[paper\]](#) | [\[code\]](#) | [\[project page\]](#) 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 [\[paper\]](#) | [\[code\]](#) 3D Generation Video Understanding

## PUBLICATIONS

- **Posture, Plan and Go: Towards Open-vocabulary Text-to-Motion Generation.**  
[Jinpeng Liu](#), Wenxun Dai, Chunyu Wang, Yiji Cheng, Yansong Tang, Xin Tong.  
ECCV 2024 [\[paper\]](#) | [\[code\]](#) | [\[project page\]](#) 3D Generation LLMs Diffusion
- **FLAG3D: A 3D Fitness Activity Dataset with Language Instruction.**  
Yansong Tang\*(M.S. supervisor), [Jinpeng Liu](#)\*, Aoyang Liu\*, Bin Yang, Wenxun Dai, Yongming Rao, Jiwen Lu, et al.  
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

- **Tencent Applied Research Center (ARC Lab)** P.R. China  
Focus on 3D object generation 12/2023 - 12/2024 (expected)  
Supervisor: [Dr. Jiale Xu](#), and [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

- Yingcai Scholarship of Tsinghua University Nov. 2024
- Jintan Scholarship of Tsinghua University Nov. 2023
- Outstanding Student Scholarship of SYSU Nov. 2021
- Outstanding Student Scholarship of SYSU Nov. 2019

## PROFESSIONAL SKILLS

- 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