

JINPENG LIU

[EMAIL](#) | [WEBSITE](#) | [GITHUB](#) | [LINKEDIN](#)

EDUCATION

Tsinghua University (THU) | GPA: 3.8 of 4.0 Sept. 2022 - Present
M.E. | Data Science and Information Technology (expected June 2025) Beijing, China

Sun Yat-sen University (SYSU) | GPA: 3.6 of 4.0 Sept. 2018 - June. 2022
B.S. | Intelligent Science and Technology Guangzhou, China

PUBLICATIONS AND PREPRINTS

3D Generation

- [1] **Jinpeng Liu***, Wenxun Dai*, Chunyu Wang*, Yiji Cheng, Yansong Tang, Xin Tong. Posture, Plan and Go: Towards Open-world Motion Generation. In **ECCV 2024** [Paper] [Project Page]
- [2] **Jinpeng Liu**, et al. DMVGS: Denoising Multi-View Diffusion using 3D Large Gaussian Reconstruction Model. (It will be available soon)
- [3] Wenxun Dai, Ling-Hao Chen, Jingbo Wang, **Jinpeng Liu**, Bo Dai, Yansong Tang. MotionLCM: Real-time Controllable Motion Generation via Latent Consistency Model. In **ECCV 2024** [Paper] [Code] [Project Page]

Video Understanding

- [3] **Jinpeng Liu***, Yansong Tang*, Aoyang Liu*, Bin Yang, Wenxun Dai, Yongming Rao, Jiwen Lu, Jie Zhou, Xiu Li. FLAG3D: A 3D Fitness Activity Dataset with Language Instruction. In **CVPR, 2023** [Paper] [Code] [Project Page]
- [4] Yansong Tang, Aoyang Liu, **Jinpeng Liu**, Shiyi Zhang, Wenxun Dai, Jie Zhou, Xiu Li, Jiwen Lu. FLAG3D++: A Benchmark for 3D Fitness Activity Comprehension with Language Instruction. In Submission to TPAMI [Code]

Medical Imaging

- [5] Kun Xiang, Xing Zhang, Jinwen She, **Jinpeng Liu**, Haohan Wang, Shiqi Deng, Shancheng Jiang. Toward robust diagnosis: a contour attention preserving adversarial defense for COVID-19 detection. In **AAAI 2023** [Paper] [Code]
- [6] Jinwen She, **Jinpeng Liu**, Haiqiong Yang, Linlin Peng, Mingxin Li, Xing Zhang, Shancheng Jiang, Ran Xiao, and Gang Qu. A universal computer-aided diagnosis system for cross-regional skin lesion recognition using deep graph-based network. Under review 2023.

(* indicates equal contribution.)

PROFESSIONAL EXPERIENCE

Tencent Applied Research Center (ARC Lab) Dec. 2023 - Present
Mentor: [Dr. Xintao Wang](#) Advisor: [Dr. Ying Shan](#) Shenzhen, China

- Focus on 3D object generation

Microsoft Research Asia (MSR Asia) Mar. 2023 - Nov. 2023
Mentor: [Dr. Chunyu Wang](#) Advisor: [Dr. Xin Tong](#) Beijing, China

- Researched the open-vocabulary text to motion generation models.
- Designed a divide-and-conquer framework to transfer the task from the motion space to pose space.
- Validated the effectiveness via extensive experiments, formed a [research paper](#).

AWARDS AND HONORS

Scholarship

<i>Jintan Second Prize Scholarship of THU (top 10%)</i>	<i>Nov. 2023</i>
<i>Second Prize Scholarship of SYSU (top 15%)</i>	<i>Nov. 2021</i>
<i>Third Prize Scholarship of SYSU (top 30%)</i>	<i>Nov. 2019</i>

PROFESSIONAL SKILLS

Programming Languages: Python | MATLAB | Shell | LATEX | C++/C | HTML

Programming Tools: Git | PyTorch | Docker | Linux Ops | Vim

ACADEMIC ACTIVITIES

Reviewer of :

- The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR) '{24}
- The IEEE International Conference on Automatic Face and Gesture Recognition (FG) '{23}

MISCELLANEOUS

- Github: <https://github.com/ moonsliu>
- Academic Page: <https:// moonsliu.github.io/>
- Google Scholar: <https:// scholar.google.com/ citations? user= yu4MHUsAAAAJ& hl= en>
- Linkedin: <https:// www.linkedin.com/ in/ jinpeng-liu-1607722a6/>