

# 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. Under review 2024 [[Paper](#)] [[Project Page](#)]
- [2] Wenxun Dai, Ling-Hao Chen, Jingbo Wang, **Jinpeng Liu**, Bo Dai, Yansong Tang. MotionLCM: Real-time Controllable Motion Generation via Latent Consistency Model. Under review 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

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

## PROFESSIONAL SKILLS

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

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

## ACADEMIC ACTIVITIES

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**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

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- 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/>