# Jinpeng LIU

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

⌂ Homepage: https://moonsliu.github.io/
✉ Email: liujp22@mails.tsinghua.edu.cn
📱 Mobile: (+86) 188-3928-9598
↗ GitHub

## 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

## PUBLICATIONS AND 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`
- **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`
- **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`
- **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`
- **A universal diagnosis system for cross-regional skin lesion recognition using deep graph-based network.**
  Jinwen She, **Jinpeng Liu**, Shancheng Jiang, Ran Xiao, and Gang Qu, et. al.
  **Under Review Nat Commun** [paper] | [code]     `Medical Image`  `GNN`

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