

Jing Lin

CONTACT INFORMATION

Tsinghua University, China
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[Google Scholar](#) [GitHub](#)

RESEARCH INTERESTS

Human-centric Large Foundation Model and Agent
3D Human-Scene Perception and Generation
Image and Video Restoration

EDUCATION

Tsinghua University, China

Oct 2021 – Jun 2024

Master, GPA: 3.83/4.0,
Major: Electronic Information, Advisor: [Haoqian Wang](#)

Harbin Institute of Technology (Shenzhen), China

Oct 2017 – Jun 2021

Bachelor, GPA: 91.294/100,
Major: Department of Automation

PROJECT EXPERIENCE

Human-centric Large Foundation Model and Agent

July 2022 – Sept 2023

- Propose [ChatPose](#), a multi-model LLM designed for chatting about human pose that produces 3D human poses (SMPL pose parameters) upon user request (CVPR 2024).
- Propose ChatHuman, a multi-modal LLM-based agent that is specialized for understanding humans and their 3D behavior with the assistance of 24 human-related experts.

3D Human-Scene Perception from In-the-Wild Images/Videos

July 2022 – Sept 2023

- Develop a one-stage method [OSX](#) and build an upper-body dataset [UBody](#) for whole-body human mesh recovery (CVPR 2023).
- Design an automatic pipeline to annotate large-scale high-quality 3D human motion from in-the-wild videos and build a text-motion dataset [Motion-X](#) (NeurIPS 2023).

Grounded-Segment-Anything

Mar 2023 – Sept 2023

- Combine OSX with grounded-SAM and support promptable 3D human mesh recovery.
- Maintain the project [GitHub](#) repository (11K stars) and address raised issues.

SELECTED PUBLICATIONS

I have published 7 papers as the first or co-first author, including 2×ICML, 2×CVPR, 1×ECCV, 2×NeurIPS. According to [Google Scholar](#), I have obtained 1833 citations.

1. **Jing Lin**, Yao Feng, Weiyang Liu, Michael J. Black, “ChatHuman: Chatting about 3D Humans with Tools”, **CVPR** 2025, [Code] [Star: 56]
2. Yao Feng, **Jing Lin**, Sai Kumar Dwivedi, Yu Sun, Priyanka Patel, Michael J. Black, “ChatPose: Chatting about 3D Human Pose”, **CVPR** 2024, [Code] [Star: 214]
3. **Jing Lin**¹, Ailing Zeng*, Shunlin Lu*, Yuanhao Cai, Ruimao Zhang, Haoqian Wang, Lei Zhang, “Motion-X: A Large-scale 3D Expressive Whole-body Human Motion Dataset”, **NeurIPS** 2023. [Code] [Star: 552]

¹★ indicates equal contribution.

4. **Jing Lin**, Ailing Zeng, Haoqian Wang, Lei Zhang, Li Yu, “One-Stage 3D Whole-Body Mesh Recovery with Component Aware Transformer”, **CVPR** 2023. [Code] [Star: 653]
5. **Jing Lin***, Yuanhao Cai*, Xiaowan Hu, Haoqian Wang, Youliang Yan, Xueyi Zou, Henghui Ding, Yulun Zhang, Radu Timofte, and Luc Van Gool. “Flow-Guided Sparse Transformer for Video Deblurring”, **ICML** 2022. [Code] [153]
6. **Jing Lin***, Xiaowan Hu*, Yuanhao Cai, Haoqian Wang, Youliang Yan, Xueyi Zou, Yulun Zhang, Luc Van Gool. “Unsupervised Flow-Aligned Sequence-to-Sequence Learning for Video Restoration”, **ICML** 2022.[Code] [Star: 153]
7. Yuanhao Cai*, **Jing Lin***, Xiaowan Hu, Haoqian Wang, Xin Yuan, Yulun Zhang, Radu Timofte, Luc Van Gool. “Coarse-to-Fine Sparse Transformer for Hyperspectral Image Reconstruction”, **ECCV** 2022. [Code] [Star: 449]
8. Yuanhao Cai*, **Jing Lin***, Xiaowan Hu, Haoqian Wang, Xin Yuan, Yulun Zhang, Radu Timofte, and Luc Van Gool. “Mask-Guided Spectral-Wise Transformer for Efficient Hyperspectral Image Reconstruction”, **CVPR** 2022. [Code] [Star: 644]
9. Yuanhao Cai*, **Jing Lin***, Haoqian Wang, Xin Yuan, Henghui Ding, Yulun Zhang, Radu Timofte, Luc Van Gool. “Degradation-Aware Unfolding Half-Shuffle Transformer for Spectral Compressive Imaging”, **NeurIPS** 2022. [Code] [Star: 644]

TECHNICAL REPORTS

I have won the champion of NTIRE Spectral Recovery Challenge at CVPR 2022, and third place of NTIRE video super-resolution challenge at CVPR 2021. I play a hand-on role and **wrote all the codes and performed experiments** in these challenges.

1. Yuanhao Cai*, **Jing Lin***, Zudi Lin, Haoqian Wang, Yulun Zhang, Hanspeter Pfister, Radu Timofte, and Luc Van Gool. “MST++: Multi-stage Spectral-wise Transformer for Efficient Spectral Reconstruction”, *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW Oral & Winner Award of NTIRE Challenge on Spectral Reconstruction from RGB)*, 2022.
[Code] [Star: 422] [Video] [Slide] [Poster] [Workshop Paper] [Leaderboard]

GITHUB REPOSITORY

I’m passionate about open-source. Codes and datasets from my projects are released in [GitHub](#), where I receive over 14K stars. Here are three important repositories:

1. **MST**: This repo is a comprehensive toolbox for spectral compressive imaging, in which I’ve reproduced seven previous works and supported eleven reconstruction methods.
2. **OSX**: This is a repo for whole-body mesh recovery. We provide detailed instructions for data and model preparation, model training, and inference. We hope to help researchers shift from SMPL-based mesh recovery to SMPLX-based whole-body mesh recovery.
3. **Grounded-SAM**: During my internship at the International Digital Economy Academy (IDEA), I collaborated on the [Grounded-SAM](#) project, which aims to detect and segment anything with text inputs and has earned over 12K stars.

HONORS AND AWARDS

- **Outstanding Graduates of Tsinghua University** 2024
- **Excellent Master Thesis Award, Tsinghua University** 2024
- **National Scholarship** 2019, 2023
- **Winner** of NTIRE Spectral Reconstruction Challenge at CVPR 2022
- **Outstanding Graduates of Harbin Institute of Technology (Shenzhen)** 2021
- **First Class Scholarship** 2019, 2020, 2022