Jinnan Chen

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Education	**National University of Singapore**, Singapore
	PhD in Computer Science, Jan 2021 -August 2025 (Est.)
	Supervisor: Prof. Gim Hee Lee

Nanyang Technological University, Singapore
Master by Research in Electrical Engineering, June 2019 - Jan 2021
Supervisor: Prof. Jiang Xudong   GPA: 5.0/5.0

Wuhan University, China
B.Eng in Electrical Engineering, June 2015 - June 2019   GPA:3.5/4.0

Research

Generative Models: Diffusion models and Auto-regressive models.

3D Character Animation/Motion Retargeting: Rigging and Skinning.

Generalizable 3D Human Reconstruction: NeRF and 3DGS modeling.

Publications

Jinnan Chen, et al. "3DGarmentMaker: Autoregressive Garment Creation by Imitating the Real Garment-Making Process" **Under submission**

Lingting Zhu, Jingrui Ye, **Jinnan Chen**, et al. "MuMA: 3D PBR Texturing via Multi-Channel Multi-View Generation and Agentic Post-Processing" **Under submission**

Jinnan Chen, Lingting Zhu, Zeyu Hu, Shengju Qian, Yugang Chen, Xin Wang, Gim Hee Lee. "MAR-3D: Progressive Masked Auto-regressor for High-Resolution 3D Genaration" **CVPR 2025**

Jinnan Chen, Chen Li, Jianfeng Zhang, Hanlin Chen, Buzhen Huang, Gim Hee Lee. "Generalizable Human Gaussians from Single-View Image" **ICLR 2025**

Jinnan Chen, Chen Li, Gim Hee Lee. "DiHuR: Diffusion-Guided Generalizable Human Reconstruction" **WACV 2025**

Jinnan Chen, Chen Li, Gim Hee Lee. "Weakly-supervised 3D Pose Transfer with Keypoints" **ICCV 2023**

Buzhen Huang, Chen Li, Chongyang Xu, Dongyue Lu, **Jinnan Chen**, Gim Hee Lee. "Reconstructing Close Human Interaction with Appearance and Proxemics Reasoning" **CVPR 2025**

Lingting Zhu, Guying Lin, **Jinnan Chen**, Xinjie Zhang, Zhenchao Jin, Zhao Wang, Lequan Yu. "Large Images are Gaussians: High-quality Large Image Representation with Levels of 2D Gaussian Splatting" **AAAI 2025**

Tao Bai, **Jinnan Chen**, Jun Zhao, Bihan Wen, Xudong Jiang, Alex Kot."Feature Distillation with Guided Adversarial Contrastive Learning" **Arxiv 2020**, **IEEE Transactions on Information Forensics and Security 2023**

Qian Zheng, Boxin Shi, **Jinnan Chen**, Xudong Jiang, Ling-Yu Duan, Alex C Kot. "Single Image Reflection Removal with Absorption Effect" **CVPR 2021**

Qian Zheng, **Jinnan Chen**, Zhan Lu, Boxin Shi, Xudong Jiang, Kim-Hui Yap, Ling-Yu Duan, Alex C Kot. "What Does Plate Glass Reveal about Camera Calibration?" **CVPR 2020**

Experience	**Tencent Games, Singapore**	**June 2024 - Present**

- Introduced a diffusion-based 3D mesh generation framework with masked auto-regressive model.

Meta, Remote Collaboration **May 2022 - Jan 2023**
- Introduced a keypoint-based self-supervised 3D pose transfer model on 3D digital characters/animals.

Tiktok AI Lab, Singapore **May 2020 - Jan 2021**
- Improved video caption quality with cross modality transformers and guided knowledge distillation.

NTU SCSE, Singapore **Feb 2020 - May 2020**
- Improved model robustness against adversarial attacks with contrastive learning.

NTU EEE, Singapore **May 2019 - Jul 2020**
- Introduced physics-based single image reflection removal methods.

Additional Information

Reviewing Service
- CVPR 2024,2025, NeurIPS 2024,2025 ICLR 2025, ICML 2025, ICCV 2025, AISTATS 2025

Teaching
- CS5340 Uncertainty Modeling in AI, NUS 2022
- CS5477 3D Computer Vision, NUS 2022

Technical Skills
- Programming: Python, Pytorch, CUDA, Linux, Blender, Matlab
- Theories: 3D Human Modeling, 3D Animation, Neural Rendering, Neural Fields, Generative Models, 3D Reconstruction Algorithms

Awards
- NUS CS Research Achievement Award AY23/24
- NUS Research Scholarship 2021-2025
- Wuhan University Excellent Student 2018