

Jianhao Zeng

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Education

Tianjin University

M.Eng. in Electronic and Information Engineering
Advisor: Prof. [Dan Song](#)

Tianjin, China

2021/09 – 2024/06

Tianjin University

B.Eng. in Mechanical Design & Manufacturing and Their Automation

Tianjin, China

2017/09 – 2021/06

Publications

1. Elucidating the SNR-t Bias of Diffusion Probabilistic Models

Meng Yu, Lei Sun, [Jianhao Zeng](#), Xiangxiang Chu, Kun Zhang#
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026)

2. Eevee: Towards Close-up High-resolution Video-based Virtual Try-on

[Jianhao Zeng](#)*, Yancheng Bai*, Ruidong Chen, Xuanpu Zhang, Lei Sun, Dongyang Jin, Ryan Xu, Nannan Zhang#, Dan Song, Xiangxiang Chu
Findings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (Findings of CVPR 2026)

3. Layer-wise Instance Binding for Regional and Occlusion Control in Text-to-Image Diffusion Transformers

Ruidong Chen, Yancheng Bai, Xuanpu Zhang, [Jianhao Zeng](#), Lanjun Wang, Dan Song, Lei Sun, Xiangxiang Chu, Anan Liu#
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026)

4. Semantic Context Matters: Improving Conditioning for Autoregressive Models

Dongyang Jin*, Ryan Xu*#, [Jianhao Zeng](#), Rui Lan, Yancheng Bai, Lei Sun, Xiangxiang Chu
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026)

5. Group Relative Attention Guidance for Image Editing

Xuanpu Zhang*, Xuesong Niu*, Ruidong Chen, Dan Song, [Jianhao Zeng](#), Penghui Du, Haoxiang Cao, Kai Wu#, Anan Liu#
Findings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (Findings of CVPR 2026)

6. MEF-GD: Multimodal Enhancement and Fusion Network for Garment Designer

Dan Song, Juan Zhou, [Jianhao Zeng](#), Hongshuo Tian, Bolun Zhen, Rongbao Kang, Anan Liu#
IEEE Transactions on Circuits and Systems for Video Technology, 2025 (TCSVT)

7. Robust-MVTON: Learning Cross-Pose Feature Alignment and Fusion for Robust Multi-View Virtual Try-On

Nannan Zhang*, Yijiang Li*, Dong Du#, Zheng Chong, Zhengwentai Sun, [Jianhao Zeng](#), Yusheng Dai, Zhenyu Xie, Hairui Zhu, Xiaoguang Han#
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)

8. BooW-VTON: Boosting In-the-Wild Virtual Try-On via Mask-Free Pseudo Data Training

Xuanpu Zhang, Dan Song#, Pengxin Zhan, Tianyu Chang, [Jianhao Zeng](#), Qingguo Chen, Weihua Luo, Anan Liu#
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)

9. Better Fit: Accommodate Variations in Clothing Types for Virtual Try-on

Dan Song, Xuanpu Zhang, Jianhao Zeng, Pengxin Zhan, Qingguo Chen, Weihua Luo, Anan Liu#
IEEE Transactions on Circuits and Systems for Video Technology, 2024 (TCSVT)

10. CAT-DM: Controllable Accelerated Virtual Try-on with Diffusion Model

Jianhao Zeng, Dan Song#, Weizhi Nie, Hongshuo Tian, Tongtong Wang, Anan Liu#
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2024)

11. Fashion Customization: Image Generation Based on Editing Clue

Dan Song, Jianhao Zeng, Min Liu, Xuanya Li, Anan Liu#
IEEE Transactions on Circuits and Systems for Video Technology, 2023 (TCSVT)

Experiences

Machine Learning Department, AMAP, Alibaba Group

Beijing, China

Algorithm Engineer

2025/06 – Current

Mentor: Dr. Lei Sun, Dr. Yancheng Bai and Mr. Xiangxiang Chu

Laboratory for MAchine Perception and LEarning (MAPLE), Westlake University Hangzhou, China

Research Assistant

2024/06 – 2025/01

Advisor: Dr. Liyuan Ma, Dr. Zhiyang Chen and Prof. Guojun Qi (Fellow of IEEE, IAPR and AAIA)

Institute of Television and Image Information, Tianjin University

Tianjin, China

Graduate Student

2021/09 – 2024/06

Advisor: Prof. Dan Song and Prof. Anan Liu (Distinguished Young Scholars)

Competitions

- **Top 6.9%** in Jiangsu Meteorological AI Algorithm Challenge 2022/06
- **First Prize** in Tianjin University Undergraduate Physicists Tournament (TJUPT) 2019/08
- **Second Prize** in National College Students Mathematical Competition 2018/10
- **Third Prize** in Tianjin College Student Mathematics Competition 2018/05

Awards

- CVPR Registration and Travel Support 2024
- Excellent Master's Degree Thesis of Tianjin University (**Top 5%**) 2024
- Tianjin University Academic Scholarship 2021, 2022, 2023

Others

- **Reviewer:** ACM MM (2024), ICLR (2025, 2026), NIPS (2025), CVPR (2026), ECCV (2026), TCSVT
- **Teaching Assistant:** Digital Logic Circuit, Tianjin University
- **Translation:** Physically Based Rendering: From Theory To Implementation, fourth edition
- **Patent:** A Fashion Image Editing Method and Device Based on Self-Attention Mechanism (CN115082295B)

Skills

- **Programming Languages** C, C++, Python, HTML, CSS, JavaScript
- **Frameworks** PyTorch, PyTorch Lightning, Accelerate
- **Tools** Linux, Git, LaTeX, Typst

- **Human Languages**

Mandarin, English (TOEFL iBT: 94)