

# Jianhao Zeng

jh\_zeng@tju.edu.cn | zengjianhao.github.io | Google Scholar

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

Dan Song, Juan Zhou, [Jianhao Zeng](#), Hongshuo Tian, Bolun Zhen, Rongbao Kang, Anan Liu<sup>#</sup>

*IEEE Transactions on Circuits and Systems for Video Technology*, 2025 (TCSVT)

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

Nannan Zhang\*, Yijiang Li\*, Dong Du<sup>#</sup>, Zheng Chong, Zhengwentai Sun, [Jianhao Zeng](#), Yusheng Dai, Zhenyu Xie, Hairui Zhu, Xiaoguang Han<sup>#</sup>

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)*

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

Xuanpu Zhang, Dan Song<sup>#</sup>, Pengxin Zhan, Tianyu Chang, [Jianhao Zeng](#), Qingguo Chen, Weihua Luo, Anan Liu<sup>#</sup>

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)*

### 4. 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<sup>#</sup>

*IEEE Transactions on Circuits and Systems for Video Technology*, 2024 (TCSVT)

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

[Jianhao Zeng](#), Dan Song<sup>#</sup>, Weizhi Nie, Hongshuo Tian, Tongtong Wang, Anan Liu<sup>#</sup>

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2024)*

### 6. Fashion Customization: Image Generation Based on Editing Clue

Dan Song, [Jianhao Zeng](#), Min Liu, Xuanya Li, Anan Liu<sup>#</sup>

*IEEE Transactions on Circuits and Systems for Video Technology*, 2023 (TCSVT)

## Experiences

### Machine Learning Department, AMAP, Alibaba Group

Algorithm Engineer

Mentor: Dr. [Lei Sun](#), Dr. [Yancheng Bai](#) and Mr. [Xiangxiang Chu](#)

Beijing, China

2025/06 – Current

### Laboratory for MACHine Perception and LEarning (MAPLE), Westlake University

Research Assistant

Advisor: Dr. [Liyan Ma](#), Dr. [Zhiyang Chen](#) and Prof. [Guojun Qi](#) (Fellow of IEEE, IAPR and AAIA)

Hangzhou, China

2024/06 – 2025/01

## Competitions

- **Top 6.9%** in Jiangsu Meteorological AI Algorithm Challenge2022/06
- **First Prize** in Tianjin University Undergraduate Physicists Tournament (TJUPT)2019/08
- **Second Prize** in National College Students Mathematical Competition2018/10
- **Third Prize** in Tianjin College Student Mathematics Competition2018/05

## Awards

- CVPR Registration and Travel Support2024
- Excellent Master’s Degree Thesis of Tianjin University (**Top 5%**)2024
- Tianjin University Academic Scholarship2021, 2022, 2023

## Others

- **Reviewer:** ACM MM (2024), ICLR (2025), NIPS (2025), 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)