

Zhenyu Xie

Phone: 86-18819253799 | Email: xiezhy6@mail2.sysu.edu.cn | Citizenship: China

RESEARCH INTERESTS

My research interests mainly lie in the **Fashion-centric Synthesis**, including but not limited to 2D/3D virtual try-on, 2D fashion model/clothes synthesis/editing, etc. Recently, I am focusing on exploring the low-cost solution for the task of 3D virtual try-on. My research goal is to facilitate the development of fashion community by using the computer vision algorithms.

EDUCATION

- Sun Yat-sen University, China** September 2020 - Present
Ph.D. candidate in School of Intelligent Systems Engineering
Advisor: Prof. [Xiandan Liang](https://lemondan.github.io) (<https://lemondan.github.io>)
- Sun Yat-sen University, China** September 2018 - June 2020
M.S. in School of Computer Science and Engineering
Advisor: Prof. [Jianhuang Lai](https://cse.sysu.edu.cn/content/2498) (<https://cse.sysu.edu.cn/content/2498>)
- Sun Yat-sen University, China** September 2014 - June 2018
B.S. in School of Computer Science and Engineering
Advisor: Prof. [Xiaohua Xie](https://cse.sysu.edu.cn/content/2478) (<https://cse.sysu.edu.cn/content/2478>)

ACADEMIC SERVICES

- Organizer for CVPR 2020 Workshop on Human-centric Image/Video Synthesis. <https://vuhcs.github.io>
- Academic Conference Reviewer: ICCV2021, CVPR2022, ECCV2022, CVPR2023, ICCV2023, NeurIPS2023
- Teaching Assistant for Artificial Intelligence Experiment (2020-2021), Sun Yat-sen University

SELECTED PUBLICATIONS

- [1] [Zhenyu Xie](#), Zaiyu Huang, Xin Dong, Fuwei Zhao, Haoye Dong, Xijin Zhang, Feida Zhu, and Xiaodan Liang. GP-VTON: Towards General Purpose Virtual Try-on via Collaborative Local-Flow Global-Parsing, in the IEEE / CVF Computer Vision and Pattern Recognition Conference (**CVPR**), 2023.
- [2] Zaiyu Huang, Hanhui Li, [Zhenyu Xie](#), Michael Kampffmeyer, Qingling Cai, Xiaodan Liang. Towards Hard-pose Virtual Try-on via 3D-aware Global Correspondence Learning, in Conference on Neural Information Processing Systems (**NeurIPS**), 2022.
- [3] Xujie Zhang, Yu Sha, Michael Kampffmeyer, [Zhenyu Xie](#), Zequn Jie, Chengwen Huang, Jianqing Peng, Xiaodan Liang. ARMANI: Part-level Garment-Text Alignment for Unified Cross-Modal Fashion Design, in ACM International Conference on Multimedia (**ACMMM**), 2022.
- [4] Xin Dong, Fuwei Zhao, [Zhenyu Xie](#), Xijin Zhang, Kang Du, Min Zheng, Xiang Long, Xiaodan Liang, Jianchao Yang. Dressing in the Wild by Watching Dance Videos, in the IEEE / CVF Computer Vision and Pattern Recognition Conference (**CVPR**), 2022.
- [5] [Zhenyu Xie](#), Zaiyu Huang, Fuwei Zhao, Haoye Dong, Michael Kampffmeyer, Xiaodan Liang. Towards Scalable Unpaired Virtual Try-On via Patch-Routed Spatially-Adaptive GAN, in Conference on Neural Information Processing Systems (**NeurIPS**), 2021.
- [6] Fuwei Zhao, [Zhenyu Xie](#), Michael Kampffmeyer, Haoye Dong, Songfang Han, Tianxiang Zheng, Tao Zhang, Xiaodan Liang. M3D-VTON: A Monocular-to-3D Virtual Try-On Network, in International Conference on Computer Vision (**ICCV**), 2021.

- [7] [Zhenyu Xie](#), Xujie Zhang, Fuwei Zhao, Haoye Dong, Michael Kampffmeyer, Haonan Yan, Xiaodan Liang. WAS-VTON: Warping Architecture Search for Virtual Try-on Network, in ACM International Conference on Multimedia (**ACMMM**), 2021.
- [8] Bowen Wu, [Zhenyu Xie](#), Xiaodan Liang Yubei Xiao, Haoye Dong, Liang Lin. Image Comes Dancing with Collaborative Parsing-Flow Video Synthesis, in IEEE Transactions on Image Processing (**TIP**), 2021.
- [9] Haoye Dong, Xiaodan Liang, Yixuan Zhang, Xujie Zhang, Xiaohui Shen, [Zhenyu Xie](#), Bowen Wu, Jian Yin. Fashion Editing with Adversarial Parsing Learning, in the IEEE / CVF Computer Vision and Pattern Recognition Conference (**CVPR**), 2020.

INVITED TALKS

VALSE Webniar, Online

January 2022

A talk about scalable unpaired virtual try-on.

https://www.bilibili.com/video/BV18r4y1h7Q6/?vd_source=3ef1d5d137d4dc801d2bfda94ef1ecff