

# MANYUAN ZHANG

## PERSONAL DATA

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## WORK EXPERIENCE

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since 02/2019	Researcher at <b>SenseTime Research</b> , working on face recognition, large model and AIGC.
08/2018–01/2019	Research Intern at <b>Megvii (Face++)</b> , working on video style transfer.
05/2018–08/2018	Research Intern at <b>Bytedance AI Lab</b> , working on face recognition.

## EDUCATION

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09/2015–06/2019	B.Sc in Network Engineering, School of Communication University of Electronic Science and Technology of China GPA: 3.90/4
08/2021–present	Ph.D student, Multimedia Laboratory The Chinese University of Hong Kong, Hong Kong

## HONORS AND AWARDS

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- Won the **1th place** in CVPR21 Masked Face Recognition Challenge (**WebFace260M**, **InsightFace Unconstrained** and **InsightFace glint360k** track).
- Won the **1th place** in CVPR20 ActivityNet Challenge (**Kinetics700** track and **AVA** track)
- Won the **1th place** in NIST FRVT held by US government (**1:1 Verification** and **1:N Identification**)
- Won the **1th place** in ICCV19 Multi-Moments in Time (MIT) Challenge
- Won the **1th place** in ICCV19 Lightweight Face Recognition Challenge

## PUBLICATIONS

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- **Motion-I2V: Consistent and Controllable Image-to-Video Generation with Explicit Motion Modeling**  
Xiaoyu Shi, Zhaoyang Huang, Fu-Yun Wang, Weikang Bian, Dasong Li, Yi Zhang, **Manyuan Zhang**, Ka Chun Cheung, Simon See, Hongwei Qin, Jifeng Dai, Hongsheng Li  
ACM SIGGRAPH 2024
- **Decoupled DETR: Spatially Disentangling Localization and Classification for Improved End-to-End Object Detection**  
**Manyuan Zhang**, Guanglu Song, Yu Liu, Hongsheng Li  
International Conference on Computer Vision (ICCV) 2023
- **VideoFlow: Exploiting Temporal Cues for Multi-frame Optical Flow Estimation**  
Xiaoyu Shi, Zhaoyang Huang, Weikang Bian, Dasong Li, **Manyuan Zhang**, Ka Chun Cheung, Simon See, Hongwei Qin, Jifeng Dai, Hongsheng Li  
International Conference on Computer Vision (ICCV) 2023

- **FlowFormer++: Masked Cost Volume Autoencoding for Pretraining Optical Flow Estimation**  
Xiaoyu Shi, Zhaoyang Huang, Dasong Li, **Manyuan Zhang**, Ka Chun Cheung, Simon See, Hongwei Qin, Jifeng Dai, Hongsheng Li  
IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR) 2023.
- **Towards Robust Face Recognition with Comprehensive Search**  
**Manyuan Zhang**, Guanglu Song, Yu Liu, Hongsheng Li.  
European Conference on Computer Vision (ECCV) 2022.
- **Switchable K-class Hyperplanes for Noise-robust Representation Learning**  
Boxiao Liu, Guanglu Song, **Manyuan Zhang**, Haihang You, Yu Liu  
International Conference on Computer Vision (ICCV) 2021.
- **Discriminability Distillation in Group Representation Learning**  
**Manyuan Zhang**, Guanglu Song, Hang Zhou, Yu Liu.  
European Conference on Computer Vision (ECCV) 2020.
- **Towards flops-constrained face recognition**  
Yu Liu\*, Guanglu Song\*, **Manyuan Zhang\***, Jihao Liu\*, Yucong Zhou, Junjie Yan.  
IEEE International Conference on Computer Vision (ICCV) 2019.
- **Tensor sensing for RF tomographic imaging**  
Tao Deng, Feng Qian, Xiao-Yang Liu, **Manyuan Zhang**, Anwar Walid.  
IEEE International Conference on Multimedia and Expo (ICME) 2018.
- **Privacy-preserving sensory data recovery**  
Cai Chen, **Manyuan Zhang**, Huanzhi Zhang, Zhenyun Huang, Yong Li.  
IEEE International Conference On Trust, Security And Privacy In Computing (TrustCom) 2018.
- **Top-1 Solution of Multi-Moments in Time Challenge 2019 (top-1 solution)**  
**Manyuan Zhang**, Hao Shao, Guanglu Song, Yu Liu, Junjie Yan.  
arXiv preprint.
- **Towards Large-scale Masked Face Recognition (top-1 solution)**  
**Manyuan Zhang**, Bingqi Ma, Guanglu Song, Yunxiao Wang, Hongsheng Li, Yu Liu.  
arXiv preprint.
- **1st place solution for AVA-Kinetics Crossover in ActivityNet Challenge 2020 (top-1 solution)**  
Siyu Chen, Juntong Pan, Guanglu Song, **Manyuan Zhang**, Hao Shao, Ziyi Lin, Jing Shao, Hongsheng Li, Yu Liu.  
arXiv preprint.

## SELECTED PROJECTS

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- **X-Xemporal** <https://github.com/Sense-X/X-Temporal>  
Easily implement SOTA video understanding methods with PyTorch on multiple machines and GPUs.
- **DI-drive** <https://github.com/opensdilab/DI-drive>  
Decision Intelligence Platform for Autonomous Driving simulation.

## COMPUTER SKILLS

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PROGRAMMING LANGUAGES	Python, Java, C/C++
DEEP LEARNING FRAMEWORKS:	Pytorch, MxNet
SOFTWARE	Linux, Vim, Latex