

MANYUAN ZHANG

PERSONAL DATA

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WORK EXPERIENCE

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

EDUCATION

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

- 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

- **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 Workshop (ICCVW) 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

- **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.
- **DI-star** <https://github.com/opensdilab/DI-star>
A large-scale game AI distributed training platform specially developed for the StarCraft II.

COMPUTER SKILLS

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