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.
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 (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 AcitivityNet Challenge 2020 (top-1 solution)**
  Siyu Chen, Junting Pan, Guanglu Song, **Manyuan Zhang**, Hao Shao, Ziyi Lin, Jing Shao, Hongsheng Li, Yu Liu.
  arXiv preprint.
- **Complementary Boundary Generator with Scale-Invariant Relation Modeling for Temporal Action Localization: Submission to ActivityNet Challenge 2020**
  Haisheng Su, Jinyuan Feng, Hao Shao, Zhenyu Jiang, **Manyuan Zhang**, Wei Wu, Yu Liu, Hongsheng Li, Junjie Yan.
  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/opendilab/DI-drive
  Decision Intelligence Platform for Autonomous Driving simulation.

Computer Skills

Programming Languages	Python, Java, C/C++
Deep Learning Frameworks:	Pytorch, MxNet
Software	Linux, Vim, Latex