MANYUAN ZHANG

PERSONAL DATA

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WORK EXPERIENCE

since 02/2019	Researcher/Research intern at **SenseTime Research**, Base Model working on face recognition, large model and AIGC (Miaohua). The Base Model team was awarded the company's highest honor in both 2022 and 2023.
08/2018–01/2019	Research Intern at **Megvii (Face++)**, working on face recognition.
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-**07/2025**	Ph.D candidate, **Multimedia Laboratory** The Chinese University of Hong Kong, Hong Kong Supervisor: Xiaogang Wang & Hongsheng Li

HONORS AND AWARDS

- Won the **1st place** in CVPR21 Masked Face Recognition Challenge (**WebFace260M**[†‡], **InsightFace Unconstrained**[†‡], and **InsightFace glint360k**[*] track).

- Won the **1st place** in CVPR20 ActivityNet Challenge (**Kinetics700**[†‡] and **AVA**[*] track)

- Won the **1st place** in NIST FRVT[*] held by US government on both **1:1 Verification** and **1:N Identification** (the most authoritative face recognition competition in the world)

- Won the **1st place** in ICCV19 Multi-Moments in Time (**MIT**) Challenge[†‡]

- Won the **1st place** in ICCV19 Lightweight Face Recognition (**LFR**) Challenge[*]

[†] Project Lead [‡] First Contributor [*] Main Contributor

PUBLICATIONS

- **Three Things We Need to Know About Transferring Stable Diffusion to Visual Dense Prediciton Tasks**
  Manyuan Zhang, Guanglu Song, Yu Liu, Hongsheng Li.

  European Conference on Computer Vision (ECCV) 2024

- **Deep Reward Supervisions for Tuning Text-to-Image Diffusion Models**
  Xiaoshi Wu, Yiming Hao, **Manyuan Zhang**, Keqiang Sun, Zhaoyang Huang, Guanglu Song, Yu Liu, and Hongsheng Li.

  European Conference on Computer Vision (ECCV) 2024

- **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 Workshop (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.

- **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.

- **Searching for Parameter-Efficient Tuning Architecture for Text-to-image Diffusion Models with Multi-objective Reward**
  Manyuan Zhang, Guanglu Song, Yu Liu, Hongsheng Li.

  In submission

OPEN-SOURCE PROJECTS

- **X-Xemporal** (0.5k+ stars) https://github.com/Sense-X/X-Temporal
  Easily implements SOTA video understanding methods with PyTorch on multiple machines and GPUs. Lead contributor.

- **DI-drive** (0.5k+ stars) https://github.com/opendilab/DI-drive
  Decision Intelligence Platform for Autonomous Driving Simulation. Responsible for the imitation learning module.

- **DI-star** (1.2k+ stars) https://github.com/opendilab/DI-star
  A large-scale game AI distributed training platform specially developed for the **StarCraft II**. Achieve **6000+** MMR for Zerg. Responsible for supervised learning.