Jian ZHAO (Jason), Ph.D.　　　　　　　赵健 博士

Assistant Professor　　　　　　Updated: 26/11/2023
Institute of North Electronic Equipment　　zhaojian90@u.nus.edu
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Haidian District, Beijing, China 100191
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EXPERTIES & INTERESTS

Artificial Intelligence, Pattern Recognition, Machine Learning, Computer Vision, and Multimedia Analytics

PROFESSIONAL APPOINTMENTS

Institute of North Electronic Equipment, Beijing, China
Assistant Professor　　　　　　07/2019-Present
Intelligent Game and Decision Laboratory, Beijing, China
Assistant Professor　　　　　　01/2022-Present
Peng Cheng Laboratory, Shenzhen, China
Visiting Scholar　　　　　　06/2022-12/2023
Tencent AI Lab, Shenzhen, China
Rhino-Bird Visiting Scholar　　　　　　12/2019-12/2020
FiT DeepSea AI Lab, Tencent, Shenzhen, China
"Texpert" Research Scientist　　　　　　12/2018-04/2019
Core Technology Group, Learning & Vision, Panasonic R & D Center, Singapore
Research Intern　　　　　　05/2016-09/2018
China Aerospace Science and Industry Corporation, Beijing, China
Research Intern　　　　　　09/2011-06/2012

EDUCATION & CAREER PREPARATION

Department of Electrical and Computer Engineering, Faculty of Engineering, National University of Singapore, Singapore
Doctor of Philosophy in *Artificial Intelligence*　　01/2016-04/2019
Thesis: Deep Learning for Human-Centric Image Analysis: From Face Recognition to Human Parsing
Advisors: Assis. Prof. Jiashi Feng, Assoc. Prof. Shuicheng Yan
School of Computer, National University of

Defense Technology, Changsha, Hunan, China

Master of Engineering in *Computer Science and Technology* 09/2012-12/2014

Advisor: Prof. Xucan Chen
School of Automation Science and Electrical Engineering, Beihang University, Beijing, China

Bachelor of Engineering in *Automation* 09/2008-07/2012

Advisors: Dr. Shaopeng Dong, Prof. Mei Yuan

HONORS & RRCOGNITION

[1] Outstanding Contribution Award, the 3rd Anti-UAV Workshop & Challenge with CVPR 2023 2023

[2] 1st-Prize Award, 2nd author, the 2022 WU WEN JUN AI Natural Science Award 2022

[3] 1st-Place Award, 9th author, Masked Face Recognition Challenge (WebFace260M Track) with International Conference on Computer Vision (ICCV) 2021 2021

[4] 2020-2022 Young Elite Scientist Sponsorship Program, China Association for Science and Technology 2021

[5] 2021-2023 Beijing Young Elite Scientist Sponsorship Program, Beijing Association for Science and Technology 2021

[6] The USERN Prize Nomination, Universal Scientific Education and Research Network (USERN) 2021

[7] A-Level Certificate, 4th author, Activity Recognition Track, China Artificial Intelligence Competition 2020

[8] Lee Hwee Kuan Award (Gold Award), 1st author, Pattern Recognition and Machine Intelligence Association (PREMIA) 2019

[9] Best Student Paper Award, 1st author, ACM Multimedia Conference (ACM MM) 2018 2018

[10] 1st-Place Award, 1st author, MS-Celeb-1M Face Recognition Hard Set/Random Set/Low-Shot Learning Challenges with International Conference on Computer Vision (ICCV) 2017 2017

[11] 1st-Place Award, 1st author, National Institute of Standards and Technology (NIST) IARPA Janus Benchmark A (IJB-A) Unconstrained Face Verification/ Identification Challenges 2017

[12] 2nd-Place Award, 1st author, Look into Person (L.I.P) Human Parsing/Pose Estimation Challenges with IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017 2017

[13] 3rd-Place Award, 2nd author, MS-Celeb-1M Face 2016

Recognition Hard Set Challenge with ACM Multimedia
Conference (ACM MM) 2016

[14] Excellent Student Award (<10%), School of Computer, National University of Defense Technology	2016
[15] Excellent Student Award (<10%), School of Computer, National University of Defense Technology	2015
[16] Excellent Graduate Award (<2%), National University of Defense Technology	2014
[17] Excellent Student Award (<2%), National University of Defense Technology	2014
[18] Guanghua Fellowship (<2%), National University of Defense Technology	2014
[19] Contribution Prize, for Engineering Implementation of Tianhe-2 Supercomputer (No.1 on Top500, 06/2013), National University of Defense Technology	2013
[20] 3rd-Place Award, 1st author, 13th "Great Wall Information Cup" Challenge, National University of Defense Technology	2013
[21] Excellent Student Award (<10%), School of Computer, National University of Defense Technology	2013
[22] 1st-Place Award, 1st author, Big Data Processing and Information Sub-Forum of the 6th Graduate Innovation Forum, Provincial Education Department of Hunan Province	2013
[23] Excellent Graduate Award (<2%), Beihang University	2012
[24] 2nd-Place Award, 1st author, 5th Student Research Training Program (SRTP), Beihang University	2012
[25] National Endeavor Fellowship, Central Government & Beijing Government of China	2011
[26] 3rd-Place Award, 1st author, "Feng Ru Cup" Challenge, School of Automation Science and Electrical Engineering, Beihang University	2011
[27] SMC Fellowship, Beihang University	2010

TECHNICAL PUBLICATIONS

Google Scholar:
https://scholar.google.com.sg/citations?hl=en&user=zdhRJCkAAA
AJ&view_op=list_works&gmla=AJsN-F4PURIx5GMQHVpprJJBjTsNC
62YCHjxGsKOwVhrkZ1aJsLgBiuKPBbAgbdcE5_KNw3OnLQgOVSjlq
mS6gc-6ti0M2K5o-klHgoOywFCbdaaGnpis130zvgoZFJkVfmoNKpo8
Krp
Personal DBLP Page: https://dblp.org/pid/70/2932-6.html
*Corresponding Authors; Supervised Postdocs/Students/Interns;
†Equal Contribution.

Journals

[1] **Jian Zhao**, Shuicheng Yan, Jiashi Feng. Towards Age-Invariant Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2020. (ESI Highly Cited Paper).

[2] **Jian Zhao**, Junliang Xing, Lin Xiong, Shuicheng Yan, Jiashi Feng. Recognizing Profile Faces by Imagining Frontal View. International Journal of Computer Vision (IJCV), 2020.

[3] **Jian Zhao**, Jianshu Li, Hengzhu Liu, Shuicheng Yan, Jiashi Feng. Fine-Grained Multi-Human Parsing. International Journal of Computer Vision (IJCV), 2020.

[4] **Jian Zhao**, Lin Xiong, Jianshu Li, Junliang Xing, Shuicheng Yan, Jiashi Feng. 3D-Aided Dual-Agent GANs for Unconstrained Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2018.

[5] Xiaoguang Tu, **Jian Zhao***, Qiankun Liu, Wenjie Ai, Guodong Guo, Zhifeng Li, Wei Liu, Jiashi Feng. Joint Face Image Restoration and Frontalization for Recognition. IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT), 2021.

[6] Jianshu Li†, **Jian Zhao**†, Congyan Lang, Yidong Li, Yunchao Wei, Gudong Guo, Terence Sim, Shuicheng Yan, Jiashi Feng. Multi-Human Parsing With a Graph-based Generative Adversarial Model. ACM Transactions on Multimedia Computing, Communications, and Applications (T-OMM), 2021.

[7] Bo Huang, Junjie Chen, Tingfa Xu, Gang Wang*, **Jian Zhao***, Jianan Li*. Anti-UAV410: A Thermal Infrared Benchmark and Customized Scheme for Tracking Drones in the Wild. IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2023.

[8] Lei Jin, Xiaojuan Wang, Xuecheng Nie, Wendong Wang, Yandong Guo, Shuicheng Yan, **Jian Zhao***. Rethinking the Person Localization for Single-Stage Multi-Person Pose Estimation. IEEE Transactions on Multimedia (T-MM), 2023.

[9] Lei Jin, Xiaojuan Wang, Xuecheng Nie, Luoqi Liu, Yandong Guo, **Jian Zhao***. Grouping by Center: Predicting Centripetal Offsets for the Bottom-up Human Pose Estimation. IEEE Transactions on Multimedia (T-MM), 2022.

[10] Nan Jiang, Kuiran Wang, Xiaoke Peng, Xuehui Yu, Qiang Wang, Junliang Xing, Guorong Li, **Jian Zhao***, Zhenjun Han. Anti-UAV: A Large Multi-Modal Benchmark for UAV Tracking. IEEE Transactions on Multimedia (T-MM), 2021.

[11] Yalan Qin, Hanzhou Wu, **Jian Zhao***, Guorui Feng. Enforced Block Diagonal Subspace Clustering with Closed Form Solution. Pattern Recognition (PR), 2022.

[12] Haoyi Xiong, Ruosi Wan, **Jian Zhao***, Zeyu Chen, Xingjian Li, Zhanxing Zhu, Jun Huan. GrOD: Deep Learning with Gradients

Orthogonal Decomposition for Knowledge Transfer, Distillation, and Adversarial Training. ACM Transactions on Knowledge Discovery from Data (T-KDD), 2022.

[13] Hao Wu, Jianyang Gu, Xiaojin Fan, He Li, Lidong Xie, **Jian Zhao***. 3D-Guided Frontal Face Generation for Pose-Invariant Recognition. ACM Transactions on Intelligent Systems and Technology (T-IST), 2022.

[14] Qingzhong Wang, Pengfei Zhang, Haoyi Xiong, **Jian Zhao***. Face.evoLVe: A High-Performance Face Recognition Library. IEEE Neurocomputing (Neurocomputing), 2021.

[15] Kai Hu, **Jian Zhao***, Yu Liu, Yukai Niu, Gang Ji. Structure-Guided Image Inpainting. Journal of Beijing University of Aeronautics and Astronautics (JBUAA), 2021.

[16] Xiaoguang Tu, **Jian Zhao**, Mei Xie, Zihang Jiang, Akshaya Balamurugan, Yao Luo, Yang Zhao, Lingxiao He, Zheng Ma, Jiashi Feng. 3D Face Reconstruction from A Single Image Assisted by 2D Face Images in the Wild. IEEE Transactions on Multimedia (T-MM), 2020.

[17] Xiaoguang Tu, Yingtian Zou, **Jian Zhao**, Wenjie Ai, Jian Dong, Yuan Yao, Zhikang Wang, Guodong Guo, Zhifeng Li, Wei Liu, Jiashi Feng. Joint Face Image Restoration and Frontalization for Recognition. IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT), 2021.

[18] Xiaoguang Tu, Zheng Ma, **Jian Zhao**, Guodong Du, Mei Xie, Jiashi Feng. Learning Generalizable and Identity-Discriminative Representations for Face Anti-Spoofing. ACM Transactions on Intelligent Systems and Technology (T-IST), 2020.

[19] Fang Zhao, Jiashi Feng, **Jian Zhao**, Wenhan Yang, Shuicheng Yan. Robust LSTM-Autoencoders for Face De-Occlusion in the Wild. IEEE Transactions on Image Processing (T-IP), 2017.

[20] Xumeng Han, Xuehui Yu, Guorong Li, **Jian Zhao**, Gang Pan, Qixiang Ye, Jianbin Jiao, Zhenjun Han. Rethinking Sampling Strategies for Unsupervised Person Re-identification. IEEE Transactions on Image Processing (T-IP), 2022.

[21] Meng Meng, Tianzhu Zhang, Wenfei Yang, **Jian Zhao**, Yongdong Zhang, Feng Wu. Diverse Complementary Part Mining for Weakly Supervised Object Localization. IEEE Transactions on Image Processing (T-IP), 2022.

[22] Zhikang Wang, Lihuo He, Xiaoguang Tu, **Jian Zhao**, Xinbo Gao, Shengmei Shen, Jiashi Feng. Robust Video-based Person Re-Identification by Hierarchical Mining. IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT), 2021.

[23] Zun Li, Congyan Lang, Liqian Liang, **Jian Zhao**, Songhe Feng, Qibin Hou, Jiashi Feng. Dense Attentive Feature Enhancement for

Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT), 2021.

[24] Liqian Liang, Congyan Lang, Zun Li, **Jian Zhao**, Tao Wang, Songhe Feng. Seeing Crucial Parts: Vehicle Model Verification via A Discriminative Representation Model. ACM Transactions on Multimedia Computing, Communications, and Applications (T-OMM), 2021.

[25] Feihong Lu, Hang Chen, Kang Li, Qiliang Deng, **Jian Zhao**, Kaipeng Zhang, Hong Han. Toward High-quality Face-Mask Occluded Restoration. ACM Transactions on Multimedia Computing, Communications, and Applications (T-OMM), 2022.

[26] Liqian Liang, Congyan Lang, Yidong Li, Songhe Feng, **Jian Zhao**. Fine-Grained Facial Expression Recognition in the Wild. IEEE Transactions on Information Forensics and Security (T-IFS), 2020.

[27] Shiming Chen, Ziming Hong, Wenjin Hou, Guosen Xie, Yibing Song, **Jian Zhao**, Xinge You, Shuicheng Yan, Ling Shao. TransZero++: Cross Attribute-Guided Transformer for Zero-Shot Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2022.

[28] Xiaojin Fan, Mengmeng Liao, Jingfeng Xue, Hao Wu, Lei Jin, **Jian Zhao**, Liehuang Zhu. Joint Coupled Representation and Homogeneous Reconstruction for Multi-Resolution Small Sample Face Recognition. IEEE Neurocomputing (Neurocomputing), 2022.

[29] Xingyu Zhang, Xiongwei Zhang, Wei Liu, Xia Zou, Meng Sun, **Jian Zhao**. Waveform Level Adversarial Example Generation for Joint Attacks Against both Automatic Speaker Verification and Spoofing Countermeasures. Engineering Applications of Artificial Intelligence (EAAI), 2022.

[30] **Yabo Xiao**, Xiaojuan Wang, Mingshu He, Lei Jin, Mei Song, **Jian Zhao**. A Compact and Powerful Single-Stage Network for Multi-Person Pose Estimation. Electronics (Electronics), 2023.

Conferences

[31] **Jian Zhao**, Jianshu Li, Yu Cheng, Terence Sim, Shuicheng Yan, Jiashi Feng. Understanding Humans in Crowded Scenes: Deep Nested Adversarial Learning and A New Benchmark for Multi-Human Parsing. ACM Multimedia Conference (ACM MM) 2018. (Best Student Paper Award).

[32] **Jian Zhao**, Lin Xiong, Karlekar Jayashree, Jianshu Li, Fang Zhao, Zhecan Wang, Sugiri Pranata, Shengmei Shen, Shuicheng Yan, Jiashi Feng. Dual-Agent GANs for Photorealistic and Identity Preserving Profile Face Synthesis. Advances in Neural Information Processing Systems (NeurIPS) 2017.

[33] **Jian Zhao**, Yu Cheng, Yan Xu, Lin Xiong, Jianshu Li, Fang Zhao, Karlekar Jayashree, Sugiri Pranata, Shengmei Shen, Junliang Xing, Shuicheng Yan, Jiashi Feng. Towards Pose Invariant Face

Recognition in the Wild. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2018.

[34] **Jian Zhao**, Yu Cheng, Yi Cheng, Yang Yang, Fang Zhao, Jianshu Li, Hengzhu Liu, Shuicheng Yan, Jiashi Feng. Look Across Elapse: Disentangled Representation Learning and Photorealistic Cross-Age Face Synthesis for Age-Invariant Face Recognition. AAAI Conference on Artificial Intelligence (AAAI) 2019. (Oral).

[35] **Jian Zhao**, Jianshu Li, Xiaoguang Tu, Fang Zhao, Yuan Xin, Junliang Xing, Hengzhu Liu, Shuicheng Yan, Jiashi Feng. Multi-Prototype Networks for Unconstrained Set-based Face Recognition. International Joint Conference on Artificial Intelligence (IJCAI) 2019. (Oral).

[36] **Jian Zhao**, Lin Xiong, Yu Cheng, Yi Cheng, Jianshu Li, Li Zhou, Yan Xu, Karlekar Jayashree, Sugiri Pranata, Shengmei Shen, Junliang Xing, Shuicheng Yan, Jiashi Feng. 3D-Aided Deep Pose-Invariant Face Recognition. International Joint Conference on Artificial Intelligence (IJCAI) 2018. (Oral).

[37] **Jian Zhao**, Jianshu Li, Fang Zhao, Shuicheng Yan, Jiashi Feng. Marginalized CNN: Learning Deep Invariant Representations. British Machine Vision Conference (BMVC) 2017.

[38] Fang Zhao†, **Jian Zhao**†, Shuicheng Yan, Jiashi Feng. Dynamic Conditional Networks for Few-Shot Learning. European Conference on Computer Vision (ECCV) 2018.

[39] Jianyang Gu, Kai Wang, Hao Luo, Chen Chen, Wei Jiang, Yuqiang Fang, Shanghang Zhang, Yang You, **Jian Zhao***. MSINet: Twins Contrastive Search of Multi-Scale Interaction for Object ReID. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2023.

[40] Lei Jin, Chenyang Xu, Xiaojuan Wang, Yabo Xiao, Yandong Guo, Xuecheng Nie, **Jian Zhao***. Single-Stage is Enough: Multi-Person Absolute 3D Pose Estimation. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2022.

[41] Tao Wang, Lei Jin, Zhang Wang, Xiaojin Fan, Yu Cheng, Yinglei Teng, Junliang Xing, **Jian Zhao***. DecenterNet: Bottom-Up Human Pose Estimation Via Decentralized Pose Representation. ACM Multimedia Conference (ACM MM) 2023.

[42] Jiaming Chu, Lei Jin, Junliang Xing, **Jian Zhao***. Single-stage Multi-human Parsing via Point Sets and Center-based Offsets. ACM Multimedia Conference (ACM MM) 2023.

[43] Jianshu Li, **Jian Zhao**, Yunpeng Chen, Sujoy Roy, Shuicheng Yan, Jiashi Feng, Terence Sim. Multi-Human Parsing Machines. ACM Multimedia Conference (ACM MM) 2018.

[44] Jianshu Li, **Jian Zhao**, Fang Zhao, Hao Liu, Jing Li, Shengmei Shen, Jiashi Feng, and Terence Sim. Robust Face Recognition with

Deep Multi-View Representation Learning. ACM Multimedia Conference (ACM MM) 2016. (Oral).

[45] Zhecan Wang, **Jian Zhao**, Cheng Lu, Han Huang, Fan Yang, Lianji Li, Yandong Guo. Learning to Detect Head Movement in Unconstrained Remote Gaze Estimation in the Wild. IEEE Winter Conference on Applications of Computer Vision (WACV) 2020.

[46] Fang Zhao, Jianshu Li, **Jian Zhao**, Jiashi Feng. Weakly Supervised Phrase Localization with Multi-Scale Anchored Transformer Network. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2018.

[47] Jianxin Sun, Qi Li, Weining Wang, **Jian Zhao**, Zhenan Sun. Multi-Caption Text-to-Face Synthesis: Dataset and Algorithm. ACM Multimedia Conference (ACM MM) 2021.

[48] Jianshu Li, Shengtao Xiao, Fang Zhao, **Jian Zhao**, Jianan Li, Jiashi Feng, Shuicheng Yan, Terence Sim. Integrated Face Analytics Networks through Cross-Dataset Hybrid Training. ACM Multimedia Conference (ACM MM) 2017. (Oral).

[49] Fang Zhao, Shengcai Liao, Guosen Xie, **Jian Zhao**, Kaihao Zhang, Ling Shao. Unsupervised Domain Adaptation with Noise Resistible Mutual-Training for Person Re-identification. European Conference on Computer Vision (ECCV) 2020.

[50] Jianshu Li, Pan Zhou, Yunpeng Chen, **Jian Zhao**, Sujoy Roy, Yan Shuicheng, Jiashi Feng, Terence Sim. Task Relation Networks. IEEE Winter Conference on Applications of Computer Vision (WACV) 2019.

[51] Rui Li, Baopeng Zhang, Jun Liu, Wei Liu, **Jian Zhao**, Zhu Teng. Heterogeneous Diversity Driven Active Learning for Multi-Object Tracking. IEEE International Conference on Computer Vision (ICCV) 2023.

[52] Zhuo Zhou, Wenxuan Liu, Danni Xu, Zheng Wang, **Jian Zhao**. Uncovering the Unseen: Discover Hidden Intentions by Micro-Behavior Graph Reasoning. ACM Multimedia Conference (ACM MM) 2023.

[53] Ziming Hong, Shiming Chen, Guosen Xie, Wenhan Yang, **Jian Zhao**, Yuanjie Shao, Qinmu Peng, Xinge You. Semantic Compression Embedding for Generative Zero-Shot Learning. International Joint Conference on Artificial Intelligence (IJCAI) 2022. (Oral).

[54] Yuqi Gong, Xuehui Yu, Yao Ding, Xiaoke Peng, **Jian Zhao**, Zhenjun Han. Effective Fusion Factor in FPN for Tiny Object Detection. IEEE Winter Conference on Applications of Computer Vision (WACV) 2021.

[55] Pengfei Chen, Xuehui Yu, Xumeng Han, Najmul Hassan, Kai Wang, Jiachen Li, **Jian Zhao**, Humphrey Shi, Zhenjun Han, Qixiang

Ye. Point-to-Box Network for Accurate Object Detection via Single Point Supervision. European Conference on Computer Vision (ECCV) 2022.

[56] <u>Shiming Chen</u>, Ziming Hong, Guosen Xie, Wenhan Yang, Qinmu Peng, <u>Kai Wang</u>, **Jian Zhao**, Xinge You. MSDN: Mutually Semantic Distillation Network for Zero-Shot Learning. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2022.

[57] <u>Chengliang Zhong</u>, Yuhang Zheng, Yupeng Zheng, Hao Zhao, Li Yi, Xiaodong Mu, Ling Wang, Pengfei Li, Guyue Zhou, Chao Yang, Xinliang Zhang, **Jian Zhao**. 3D Implicit Transporter for Temporally Consistent Keypoint Discovery. IEEE International Conference on Computer Vision (ICCV) 2023.

Workshops

[58] **Jian Zhao**, Jianshu Li, Xuecheng Nie, Yunpeng Chen, Zhecan Wang, Shuicheng Yan, Jiashi Feng. Self-Supervised Neural Aggregation Networks for Human Parsing. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2017 Workshop on Visual Understanding of Humans in Crowd Scene.

[59] <u>Yu Cheng</u>†, **Jian Zhao**†, <u>Zhecan Wang</u>, Yan Xu, Karlekar Jayashree, Shengmei Shen, Jiashi Feng. Know You at One Glance: A Compact Vector Representation for Low-Shot Learning. IEEE International Conference on Computer Vision (ICCV) 2017 Workshop on MS-Celeb-1M Challenge.

[60] <u>Zhecan Wang</u>†, **Jian Zhao**†, <u>Yu Cheng</u>, Shengtao Xiao, Jianshu Li, Fang Zhao, Jiashi Feng, Ashraf Kassim. Conditional Dual-Agent GANs for Photorealistic and Annotation Preserving Image Synthesis. British Machine Vision Conference (BMVC) 2017 Workshop on FaceHUB.

[61] Yan Xu, <u>Yu Cheng</u>, **Jian Zhao**, <u>Zhecan Wang</u>, Lin Xiong, Karlekar Jayashree, Sugiri Pranata, Shengmei Shen, Jiashi Feng. High Performance Large-Scale Face Recognition with Multi-Cognition Softmax and Feature Retrieval. IEEE International Conference on Computer Vision (ICCV) 2017 Workshop on MS-Celeb-1M Challenge.

[62] Jianshu Li, Yunpeng Chen, Shengtao Xiao, **Jian Zhao**, Sujoy Roy, Jiashi Feng, Shuicheng Yan, Terence Sim. Estimation of Affective Level in the Wild with Multiple Memory Networks. The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2017 Workshop on First Faces in-the-wild Challenge.

INVITED TALKS

Towards Unconstrained Intelligent Perception and Deep Understanding on Images/Videos
- Ningxia "Eastern Numbers and Western Numbers"　　　　2023

Artificial Intelligence Science and Technology Research Young Scientists Forum

Towards Unconstrained Human-centric Intelligent Perception and Deep Understanding

• CSIG 云讲堂 第 28 期	2022
• 中国科协"人工智能前沿交叉"青年科学家沙龙	2022
• BSIG2022 青年学者成长论坛	2022

Towards Unconstrained Image/Video Deep Understanding

• Invited by Institute for AI Industry Research, Tsinghua University (第十二期 DISCOVER LAB 青年科学家论坛)	2022

人工智能给网络空间带来的机遇与挑战

• 2020 上海数字创新大会 Panel Discussion, Shanghai, China	2020

奔涌吧后浪：从 PhD 到助理教授身份转变

• 将门 ECCV 2020 鲜声夺人云际会 Panel Discussion, Virtual	2020

Deep Learning for Human-Centric Image Analysis: From Face Recognition to Human Parsing

• Invited by Prof. Jimin Xiao, Xi'an Jiaotong-Liverpool University, China	2020
•Invited by Prof. Congyan Lang, Beijing Jiaotong University, China	2019
• Invited by Dr. Jingtuo Liu, Baidu, China	2019
•Invited by Prof. Ran He, Center for Research on Intelligent Perception and Computing, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China	2019
• Peng Cheng Laboratory (PCL) 2019 Overseas Young Scientist Forum, Shenzhen, China	2019
• Invited by Assoc. Prof. Si Liu, CoLab, School of Computer, Beihang University, China	2019

Margin-based Representation Learning, Residual Knowledge Distillation and Prior-Aided Super Resolution — 2019

• Tencent Deep Sea AI Lab Tech Talk, Shenzhen, China

Understanding Humans in Crowded Scenes: Deep Nested Adversarial Learning and A New Benchmark for Multi-Human Parsing — 2019

• Vision And Learning SEminar (VALSE) 2019 Spotlight Talk, Hefei, Anhui, China

Deep Learning for Human-Centric Image Understanding

• UBTECH Tech Talk, Shenzhen, China	2018
• Invited Keynote by Jiang Men, Virtual	2018
• VALSE Webinar 18-26 Tech Talk, Virtual	2018

Facial Analytics

• OmniVision Tech Talk, Singapore   2018
• "Launch of NUS new Vision, Mission and Values",   2018
National University of Singapore, Singapore

PROJECT & GRANT EXPERIENCE

[1] Sole PI   Awarded by CAST, 2020-2022
2020-2022 Young Elite Scientist Sponsorship Program (under grant YESS20200140):
Towards Unconstrained Human-centric Image Understanding: from Face Recognition to Human Parsing

[2] Sole PI   Awarded by BAST, 2021-2023
2021-2023 Beijing Young Elite Scientist Sponsorship Program:
Unconstrained Human-centric Image Understanding

[3] Sole PI   Awarded by NSFC, 2021-2023
Science Foundation for Youths (under grant 62006244):
From Perception to Understanding: Towards Deep Adversarial Learning and Neural Network Architecture Search based Unconstrained Face Recognition

[4] Sole PI   Awarded by Tencent AI Lab, 2019-2020
Tencent AI Lab Rhino-Bird Visiting Scholars Program:
Towards Deep Adversarial Learning and Neural Network Architecture Search based Unconstrained Face Recognition

[5] Sole PI   Awarded by CSC, 2015-2020
National Construction of High-Level University Public Graduate Project (under grant 201503170248):
Pursuing Ph.D. Degree at National University of Singapore

PROFESSIONAL SERVICES

Member of the Board of Directors
• Beijing Society of Image and Graphics (BSIG)
Senior Area Chair
• Vision And Learning SEminar (VALSE)
Editorial Board Member
• Electronics and Signal Processing
• Artificial Intelligence Advances
• IET Computer Vision
Guest Editor
• Pattern Recognition Letters (PRL) Special Issue on Recent Advances in Deep Learning Model Security
• Electronics Special Issue on Multimedia Content Analysis, Management and Retrieval: Trends and Challenges
Member of Expert Arbitration
• "Challenge Cup" National Undergraduate Curricular Academic Science and Technology Works by Race

• China Artificial Intelligence Competition

• The Challenge on Unconstrained Face recognition, Suspicious Object Recognition, and Special Behavior Recognition

• The 1st Anti-UAV Workshop & Challenge with CVPR 2020
• The 2nd Anti-UAV Workshop & Challenge with ICCV 2021
• The 3rd Anti-UAV Workshop & Challenge with CVPR 2023

• The CAAI International Conference on Artificial Intelligence (CICAI) 2022
• The CAAI International Conference on Artificial Intelligence (CICAI) 2023

• The CAAI International Conference on Artificial Intelligence (CICAI) 2021

• ACM MM 2021
• The ECCV 2020 China Pre-Conference

• The CAIIAM 2023 Visual Target Perception: Present and Future Workshop
• The Explainable Deep Learning Algorithms and Vision Applications Workshop with VALSE 2022
• The Knowledge and Semantics Driven Visual Understanding Workshop with VALSE 2021
• The RLQ-TOD Workshop & Challenge with ECCV 2020
• The L.I.P Workshop & MHP Challenge with CVPR 2018

• Baidu PaddlePaddle

• Computer Vision Division, China Computer Federation (CCF-CV)
• Committee for Elite Young Professionals, China Society of Image and Graphics (CSIG)
• Multimedia Division, China Society of Image and Graphics (CSIG-MM)
•Big Data and Vision Division, China Society of Image and Graphics (CSIG-BVD)
• Committee for Elite Young Professionals, Beijing Society of Image and Graphics (BSIG)

• China Society of Image and Graphics (CSIG)
• Chinese Association for Artificial Intelligence (CAAI)

- Programs & Journals
  NSFC, T-PAMI, IJCV, T-MM, T-IFS, T-CSVT, Neurocomputing, T-CDS, T-AFFC, T-HMS, KNOSYS, IET Computer Vision, CSSP, JVCI, GVC, IMAVIS, ESWA, INFFUS, CVIU
- Conferences
  NeurIPS (one of the top 30% highest-scoring reviewers of NeurIPS 2018), CVPR, ICCV, ACM MM, AAAI, ICLR, ICML, ICME, ACCV, UAI, FG, CICAI, ICASSP

Member
- IEEE, CCF, CAAI, CSIG, CSIG-BVD, BSIG

ORGANIZED TALKS/SEMINARS		
VALSE Webinar 21-25: Invited Talk		2021

•对抗环境下的深度合成和鉴别, Prof. Ran He, Institute of Automation, Chinese Academy of Sciences, China

VALSE Webinar 21-02: Human-Centric Vision Techniques   2021
- The Promises of Synthetic Data, Assoc. Prof. Liang Zheng, Australian National University, Australia
- Human Motion Capture from RGB Videos, Prof. Xiaowei Zhou, Zhejiang University, Hangzhou, Zhejiang, China

VALSE Webinar 20-24: Visual Generation and Synthesis   2020
- Dual Variational Generation for Data-Limited Face Analysis, Dr. Yibo Hu, JD AI Research, Beijing, China
- Latent Semantics in Deep Generative Models, Assist. Prof. Bolei Zhou, The Chinese University of Hong Kong, Hong Kong, China

VALSE Webinar 20-06: Face-based Human Understanding: beyond FR   2020
- Beyond Face Recognition: Remote Physiological Signal Sensing, Assoc. Prof. Hu Han, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
- 智能微表情分析：挑战与趋势, Prof. Xiaopeng Hong, Xi'an Jiaotong University, Xi'an, Shanxi, China

TEACHING EXPERIENCE

Graduate Assistant   2016-2017
EE2024, PROGRAMMING FOR COMPUTER INTERFACES
National University of Singapore

HOBBIES

Travel, Cooking, Rollar Skating, Fitness, Mixed Martial Arts (MMA) and Brazilian Jiu-Jitsu (BJJ)
I am a 2-Stripe Blue Belt under Prof. Luiz Fernando Mexicano of Top Brother (Competition Records: Championship, Gi-Blue Belt Master1 Male 75kg, Beijing Magnificent Sports Meet 2023; Sliver

Medal, Gi-Blue Belt Master1 Male 69kg, Rouzhen Competition 2023). I received my Blue Belt in BJJ from Prof. Leandro Thomas Issa da Silva of Evolve MMA Singapore