Curriculum vitae

Personal Information

NAME	ZHAO Jian
ADDRESS	Vision and Machine Learning Lab, E4-#08-24, 4 Engineering Drive 3, National University of Singapore, Singapore 117583
TEL	(65) 9610 7176
EMAIL	zhaojian90@u.nus.edu
HOMEPAGE	https://zhaoj9014.github.io/
NATIONALITY	China
DATE OF BIRTH	4th, JAN, 1990
GENDER	Male

Education Experience

DATE	DEC 2015 - JUL 2019 (Expected)
QUALIFICATION AWARDED	Ph.D., Computer Engineering
PRINCIPAL STUDIES	Deep Learning & Computer Vision
INSTITUTION	Learning and Vision Group, Department of Electrical and Computer Engineering, Faculty of Engineering, National University of Singapore
SUPERVISORS	Dr. FENG Jiashi (NUS), Dr. YAN Shuicheng (NUS / Qihoo 360 AI Institute),

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Dr. LIU Hengzhu (NUDT)

DATE	SEP 2012 - DEC 2014
QUALIFICATION AWARDED	M. Eng., Computer Architecture
PRINCIPAL STUDIES	Signal Processing & Wireless Communication
INSTITUTION	School of Computer, National University of Defense Technology, China
SUPERVISORS	Dr. CHEN Xucan

DATE	SEP 2008 - JUL 2012
QUALIFICATION AWARDED	B. Sc., Automation Science and Electrical Engineering
PRINCIPAL STUDIES	System Modelling & Simulation
INSTITUTION	School of Automation Science and Electrical Engineering, Beihang University, China
SUPERVISORS	Dr. DONG Shaopeng, Dr. YUAN Mei

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Research Experience

DATE	DEC 2015 - JUL 2019 (Expected)
PROJECTS	Face Recognition & Human Parsing
INSTITUTION	Learning and Vision Group, Department of Electrical and Computer Engineering, Faculty of Engineering, National University of Singapore
SUPERVISORS	Dr. FENG Jiashi (NUS), Dr. YAN Shuicheng (NUS / Qihoo 360 AI Institute), Dr. LIU Hengzhu (NUDT)

DATE	SEP 2012 - NOV 2015
PROJECTS	Signal Processing & Wireless Communication
INSTITUTION	School of Computer, National University of Defense Technology, China
SUPERVISORS	Dr. CHEN Xucan

DATE	SEP 2008 - JUL 2012
PROJECTS	System Modelling & Simulation
INSTITUTION	School of Automation Science and Electrical Engineering,

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SUPERVISORS	Beihang University, China Dr. DONG Shaopeng, Dr. YUAN Mei

Work Experience

DATE	MAY 2016 - AUG 2018
OCCUPATION	Research Intern
INSTITUTION	Core Technology Group, Learning & Vision, Panasonic R&D Center Singapore

DATE	DEC 2015 - NOV 2017
OCCUPATION	Research Assistant
INSTITUTION	NUS Module: EE2024 PROGRAMMING FOR COMPUTER INTERFACES

DATE	SEP 2011 - MAR 2012
OCCUPATION	Software Engineer
INSTITUTION	China Aerospace Science and Industry Corporation (CASIC)

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Publications

[1] **Jian Zhao**, Jianshu Li, Yu Cheng, Li Zhou, Terence Sim, Shuicheng Yan, and Jiashi Feng, "Understanding Humans in Crowded Scenes: Deep Nested Adversarial Learning and A New Benchmark for Multi-Human Parsing", ACM MM (Oral), Jul 2018. **(The first three authors are with equal contributions)**

[2] Jianshu Li, **Jian Zhao**, Yunpeng Chen, Terence Sim, Shuicheng Yan, and Jiashi Feng, "Multi-Human Parsing Machines", ACM MM, Jul 2018.

[3] **Jian Zhao**, Lin Xiong, Yu Cheng, Jianshu Li, Li Zhou, Yan Xu, Yi Cheng, Karlekar Jayashree, Sugiri Pranata, Shengmei Shen, Junliang Xing, Shuicheng Yan, and Jiashi Feng, "3D-Aided Deep Pose-Invariant Face Recognition", IJCAI (Oral), Apr 2018. **(The first three authors are with equal contributions)**

[4] **Jian Zhao**, Yu Cheng, Yan Xu, Lin Xiong, Jianshu Li, Fang Zhao, Karlekar Jayashree, Sugiri Pranata, Shengmei Shen, Junliang Xing, Shuicheng Yan, and Jiashi Feng, "Towards Pose Invariant Face Recognition in the Wild", CVPR, Feb 2018.

[5] Fang Zhao, Jianshu Li, **Jian Zhao**, and Jiashi Feng, "Weakly Supervised Phrase Localization with Multi-Scale Anchored Transformer Network", CVPR, Feb 2018.

[6] Fang Zhao, Jiashi Feng, **Jian Zhao**, Wenhan Yang, and Shuicheng Yan, "Robust LSTM-Autoencoders for Face De-Occlusion in the Wild", TIP, Nov 2017.

[7] Yu Cheng, **Jian Zhao**, Zhecan Wang, Yan Xu, Karlekar Jayashree, Shengmei Shen, and Jiashi Feng, "Know You at One Glance: A Compact Vector Representation for Low-Shot Learning", ICCV 2017 MS-Celeb-1M Workshop (Oral), Oct, 2017. **(The first two authors are with equal contributions)**

[8] Yan Xu, Yu Cheng, **Jian Zhao**, Zhecan Wang, Lin Xiong, Karlekar Jayashree, Hajime Tamura, Tomoyuki Kagaya, Sugiri Pranata, Shengmei Shen, Jiashi Feng, and Junliang Xing, "High Performance Large Scale Face Recognition with Multi-Cognition Softmax and Feature Retrieval", ICCV 2017 MS-Celeb-1M Workshop (Oral), Oct, 2017.
[9] **Jian Zhao**, Lin Xiong, Karlekar Jayashree, Jianshu Li, Fang Zhao, Zhecan Wang, Sugiri Pranata, Shengmei Shen, and Jiashi Feng, "Dual-Agent GANs for Photorealistic and Identity Preserving Profile Face Synthesis", NIPS 2017, Sep, 2017.
[10] Zhecan Wang, **Jian Zhao**, Yu Cheng, Shengtao Xiao, Jianshu Li, Fang Zhao, Jiashi Feng, and Ashraf Kassim, "Conditional Dual-Agent GANs for Photorealistic and Annotation Preserving Image Synthesis", BMVC 2017 FaceHUB Workshop (Oral), Jul 2017. **(The first two authors are with equal contributions)**
[11] Jianshu Li, Shengtao Xiao, Fang Zhao, **Jian Zhao**, Jianan Li, Jiashi Feng, Shuicheng Yan, and Terencei Sim, "Integrated Face Analytics Networks through Cross-Dataset Hybrid Training", ACM MM (Oral), Jul 2017.
[12] Jianshu Li, **Jian Zhao**, Yunchao Wei, Congyan Lang, Yidong Li, Terence Sim, Shuicheng Yan, and Jiashi Feng, "Multi-Human Parsing in the Wild", Under review, May 2017. **(The first two authors are with equal contributions)**
[13] **Jian Zhao**, Jianshu Li, Xuecheng Nie, Fang Zhao, Yunpeng Chen, Zhecan Wang, Shuicheng Yan, and Jiashi Feng, "Self-Supervised Neural Aggregation Networks for Human Parsing", CVPR 2017 Workshop on Visual Understanding of Human in Crowd Scene (Oral), May 2017.
[14] Jianshu Li, Yunpeng Chen, Shengtao Xiao, **Jian Zhao**, Sujoy Roy, Jiashi Feng, Shuicheng Yan, and Terencei Sim, "Estimation of

Affective Level in the Wild with Multiple Memory Networks", CVPR Faces in-the-wild 2017 Workshop (Oral), May 2017.
[15] Lin Xiong, Jayashree Karlekar, **Jian Zhao**, Jiashi Feng, and Shengmei Shen, "A Good Practice Towards Top Performance of Face Recognition: Transferred Deep Feature Fusion", arXiv, Apr 2017. **(The first three authors are with equal contributions)**
[16] **Jian Zhao**, Jianshu Li, Fang Zhao, Jiashi Feng, and Shuicheng Yan, "Marginalized CNN: Learning Deep Invariant Representations", BMVC, Mar 2017.
[17] 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 MM, Jun 2016.
[18] **Jian Zhao**, Hengzhu Liu, Yiliu Feng, Shandong Yuan, and Wanzeng Cai, "BE-SIFT: A More Brief and Efficient SIFT Image Matching Algorithm for Computer Vision", 2015 IEEE International Conference on Computer and Information Technology; Ubiquitous Computing and Communications; Dependable, Autonomic and Secure Computing; Pervasive Intelligence and Computing (IEEE PICOM2015), October 2015.
[19] **Jian Zhao**, Hengzhu Liu, Xucan Chen, and Ting Chen, "A New Technology for MIMO Detection: The μ Quantum Genetic Sphere Decoding Algorithm", 2014 Annual Conference on Advanced Computer Architecture (ACA2014), August 2014.
[20] **Jian Zhao**, Hengzhu Liu, Xucan Chen, Botao Zhang, and Ting Chen, "Research on A Kind of Optimization Scheme of MIMO-OFDM Sphere Equalization Technology for Unmanned Aerial Vehicle Wireless Image Transmission Data Link System", 2014 Annual Conference on Advanced Computer Architecture (ACA2014), August 2014.
[21] **Jian Zhao**, Hengzhu Liu, Xucan Chen, and Zhengfa Liang, "Realization and Design of A Pilot Assist Decision Making System

Based on Speech Recognition", Fourth International Conference on Artificial Intelligence, Soft Computing and Applications (AIAA2014), May 2014.
[22] **Jian Zhao**, Hengzhu Liu, Xucan Chen, Botao Zhang, and Li Zhou, "A New Efficient Key Technology for Space Telemetry Wireless Data Link: The Low-Complexity SC-CPM SC-FDE Algorithm", 2014 International Conference on Information and Communications Technologies (ICT2014), May 2014.
[23] **Jian Zhao**, Hengzhu Liu, Xucan Chen, and Shandong Yuan, "Design and Implementation for A New Kind of Extensible Digital Communication Simulation System Based on Matlab", Journal of Northerneastern University, May 2014.

Awards

- No.1 on ICCV 2017 MS-Celeb-1M Large-Scale Face Recognition Hard Set / Random Set / Low-Shot Learning Challenges, 1st author
- No.2 on CVPR 2017 Visual Understanding of Humans in Crowd Scene & the 1st Look into Person (LIP) Challenge Human Parsing task and Human Pose task, 1st author
- No.1 on CVPR Faces in-the-wild 2017 Challenge, 4th author
- No.1 on National Institute of Standards and Technology (NIST) 2017 IARPA Janus Benchmark A (IJB-A) Face Verification Challenge and Face Identification Challenge, 1st author
- No.3 on ACM MM 2016 MS-Celeb-1M Large-Scale Face Recognition Hard Set Challenge, 2nd author

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- 2015 “Excellent Student Award”, School of Computer, National University of Defense Technology (<10%)
- 2014 “Excellent Graduate”, National University of Defense Technology (<2%)
- 2014 “Excellent Student Award”, National University of Defense Technology (<2%)
- 2014 “Guanghua Scholarship”, National University of Defense Technology (<2%)
- No.3 in the 13th “Great Wall Information Cup” competition, National University of Defense Technology
- 2013 “Contribution prize” on Engineering Implementation of Tianhe-2 supercomputer (No.1 on Top500, Jun, 2013), National University of Defense Technology.
- 2013 “Excellent Student Award”, School of Computer, National University of Defense Technology (<10%)
- No.1 on the “Big Data Processing and Information Sub-Forum of the 6th Graduate Innovation Forum”, The Education Ministry of Hunan Province
- 2012 “Excellent Graduate”, Beihang University (<2%)
- No.2 on the 5th “Student Research Training Program (SRTP)”, Education Ministry of China
- 2011 “National Endeavor Scholarship”, Central Government & Beijing Government of China
- No.3 on the 21th “FENG RU Cup” Competition, Beihang University
- 2010 “SMC Scholarship”, Beihang University

Skills

- Excellent programming skills in Caffe, Tensorflow, Keras, DIGITS, Python, and Matlab
- Comfortable working knowledge in C and Mathematica
- Strong analytical and problem solving skills, excellent communication skills and collaborative work ethic

Interests

- Artificial Intelligence, Deep Learning and Computer Vision, Unconstrained/Large-Scale/Low-Shot Face Recognition, Image Generation with Adversarial Learning, and Human Parsing

Hobbies

- Travel, Fitness, Mixed Martial Arts (MMA) and Brazilian Jiu-Jitsu (BJJ)

PS

- I am a Blue Belt in BJJ under Prof. Leandro Thomas Issa da Silva of Evolve MMA Singapore