



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
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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 - DEC 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

Research Experience

DATE	DEC 2015 - DEC 2019 (Expected)
PROJECTS	Face Recognition & Human Parsing



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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,
Beihang University, China

SUPERVISORS Dr. DONG Shaopeng,
Dr. YUAN Mei

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Work Experience

DATE	MAY 2016 - DEC 2017
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)

Publications

[1] 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",



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ICCV 2017 MS-Celeb-1M Workshop, Oct, 2017. **(The first two authors are with equal contributions)**

[2] 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, Oct, 2017.

[3] **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.

[4] 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, Jul 2017. **(The first two authors are with equal contributions)**

[5] 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 2017, Jul 2017.

[6] **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, May 2017.

[7] 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, May 2017.



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- [8] 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)**
- [9] **Jian Zhao**, Jianshu Li, Fang Zhao, Jiashi Feng, and Shuicheng Yan, "Marginalized CNN: Learning Deep Invariant Representations", BMVC2017, Mar 2017.
- [10] Fang Zhao, Jiashi Feng, **Jian Zhao**, Wenhan Yang, and Shuicheng Yan, "Robust LSTM-Autoencoders for Face De-Occlusion in the Wild", TIP, Nov 2017.
- [11] 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 MM16, Jun 2016.
- [12] **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.
- [13] **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.
- [14] **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.
- [15] **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



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Algorithm", 2014 International Conference on Information and Communications Technologies (ICT2014), May 2014.

[16] **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
- 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%)



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- No.3 in the 13th "Great Wall Information Cup" competition, 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

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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 four-strip white belt in BJJ under Evolve MMA Singapore