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 - 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 - NOW
OCCUPATION	Research Intern
INSTITUTION	Core Technology Group, Learning & Vision, Panasonic R&D Center Singapore

DATE	DEC 2015 - NOW
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] **ZHAO Jian**, XIONG Lin, Jian Zhao, Lin Xiong, Karlekar Jayashree, LI Jianshu, ZHAO Fang, WANG Zhecan, Sugiri Pranata, SHEN Shengmei, and FENG Jiashi, "Dual-Agent GANs for

Photorealistic and Identity Preserving Profile Face Synthesis", NIPS 2017, Sep, 2017.

[2] WANG Zhecan, **ZHAO Jian**, CHENG Yu, XIAO Shengtao, LI Jianshu, ZHAO Fang, FENG Jiashi, 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)**

[3] LI Jianshu, XIAO Shengtao, ZHAO Fang, **ZHAO Jian**, LI Jianan, FENG Jiashi, YAN Shuicheng, and Terencei Sim, "Integrated Face Analytics Networks through Cross-Dataset Hybrid Training", ACM MM 2017, Jul 2017.

[4] LI Jianshu, **ZHAO Jian**, WEI Yunchao, LANG Congyan, LI Yidong, and FENG Jiashi, "Towards Real World Human Parsing: Multiple-Human Parsing in the Wild", NIPS 2017, May 2017. **(The first two authors are with equal contributions)** (under review)

[5] **ZHAO Jian**, LI Jianshu, NIE Xuecheng, ZHAO Fang, CHEN Yunpeng, WANG Zhecan, YAN Shuicheng, and FENG Jiashi, "Self-Supervised Neural Aggregation Networks for Human Parsing", CVPR 2017 Workshop on Visual Understanding of Human in Crowd Scene, May 2017.

[6] LI Jianshu, CHEN Yunpeng, XIAO Shengtao, **ZHAO Jian**, Sujoy Roy, FENG Jiashi, YAN Shuicheng, and Terencei Sim, "Estimation of Affective Level in the Wild with Multiple Memory Networks", CVPR Faces in-the-wild 2017 Workshop, May 2017.

[7] 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)**

[8] **ZHAO Jian**, LI Jianshu, ZHAO Fang, FENG Jiashi, and YAN Shuicheng, "Marginalized CNN: Learning Deep Invariant Representations", BMVC2017, Mar 2017.

[9] **ZHAO Jian**, ZHAO Jiaojiao, LI Jianshu, ZHAO Fang, Jayashree Karlekar, FENG Jiashi, and YAN Shuicheng, "Multi-Prototype Networks for Unconstrained Set-based Face Recognition". (under review)

[10] ZHAO Fang, LI Jianshu, **ZHAO Jian**, FENG Jiashi, and YAN Shuicheng, "Weakly Supervised Phrase Localization with Multi-Scale Anchored Transformer Network". (under review)

[11] ZHAO Fang, FENG Jiashi, **ZHAO Jian**, YANG Wenhan, and YAN Shuicheng, "Robust LSTM-Autoencoders for Face De-Occlusion in the Wild", TIP, Dec 2016.

[12] LI Jianshu, **ZHAO Jian**, ZHAO Fang, LIU Hao, LI Jing, SHEN Shengmei, FENG Jiashi, and Terence Sim, "Robust face recognition with deep multi-view representation learning", ACM MM16, Jun 2016.

[13] **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.

[14] **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.

[15] **Jian ZHAO**, Hengzhu LIU, Xucan CHEN, and Zhengfa LIANG, "REALIZATION AND DESIGN OF A PILOT ASSIST DECISION MAKING SYATEM BASED ON SPEECH RECOGNITION", Fourth International Conference on Artificial Intelligence, Soft Computing and Applications (AIAA2014), May 2014.

[16] **Jian ZHAO**, Hengzhu LIU, Xucan CHEN, Botao ZHANG, and Li ZHOU, "A NEW EFFICIENT KEY TECHNOLOGY FOR SPACE

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TELEMETRY WIRELESS DATA LINK: THE LOW-COMPLEXITY SC-CPM SC-FDE ALGORITHM", 2014 International Conference on Information and Communications Technologies (ICT2014), May 2014.

[17] **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 NORTHEASTERN UNIVERSITY, May 2014.

Awards

- No.1 on ICCV 2017 MS-Celeb-1M Large-Scale Face Recognition Hard Set Challenge, Random Set Challenge, and Low-Shot Learning Challenge, 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%)

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- 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 "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 & Computer Vision, Face Recognition, Human Parsing

Hobbies

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

PS

- I am a three-strip white belt in BJJ under Evolve MMA Singapore