

Curriculum vitae

Personal Information

NAME ZHAO Jian
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NATIONALITY China
DATE OF BIRTH 4th, JAN, 1990
GENDER Male

Education Experience

DATE DEC 2015 - DEC 2019
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),

Curriculum vitae

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
PROJECTS Face Recognition & Human Parsing

 Curriculum vitae

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

Curriculum vitae

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] 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

 Curriculum vitae

Image Synthesis”, BMVC 2017 FaceHUB Workshop, Jul 2017. **(The first two authors are with equal contributions)**

[2] 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.

[3] 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)

[4] **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.

[5] 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.

[6] 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)**

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

[8] **ZHAO Jian**, ZHAO Jiaojiao, LI Jianshu, ZHAO Fang, Jayashree Karlekar, FENG Jiashi, and YAN Shuicheng, “Multi-Prototype Networks for Unconstrained Set-based Face Recognition”, ICCV2017, Mar 2017. (under review)



Curriculum vitae

- [9] ZHAO Fang, LI Jianshu, **ZHAO Jian**, FENG Jiashi, and YAN Shuicheng, "Weakly Supervised Phrase Localization with Multi-Scale Anchored Transformer Network", ICCV2017, Mar 2017. (under review)
- [10] LI Jianshu, ZHAO Fang, **ZHAO Jian**, FENG Jiashi, and YAN Shuicheng, "Landmark Free Face Attribute Prediction", ICCV2017, Mar 2017. (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. (under review)
- [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

Curriculum vitae

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
- 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
- No.1 on CVPR Faces in-the-wild 2017 Challenge
- No.1 on National Institute of Standards and Technology (NIST) 2017 IARPA Janus Benchmark A (IJB-A) Face Verification Challenge and Face Identification Challenge
- No.3 on the Hard set of MSR Image Recognition Challenge (IRC) @ ACM Multimedia 2016
- 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%)



Curriculum vitae

- 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

Curriculum vitae

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