

JianfeiYang

No risk leads to disaster.

recent photo



contact

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languages

Chinese mother tongue
English fluency

research

Data mining
Machine learning
Computer vision

programming

♥ Python
Javascript, C++,
Matlab, Latex
CSS3 & HTML5
Verilog
R programming

education

- 2016–present **Doctor of Philosophy** Nanyang Technological University
School of Electrical and Electronic Engineering
Research Interests: **Mobile Computing** (*indoor localization and smart home*),
Computer Vision (*object tracking and recognition*)
- 2012–2016 **Bachelor** of Software Engineering Sun Yat-sen University
School of Data and Computer Science (*Major GPA: 3.7/4.0, top 10%*)
Graduate with **certificate of honor** in light of excellent scientific works.

experience

- 2014–2015 **TEACHING ASSISTANT** Sun Yat-sen University
Server for the Cloud Computing/Software Engineering Course.
- 2013–2014 **INTERNSHIP OF VISION ENGINEER IN DJI** DJI Intern
Dedicated to visual tracking problem applied in UAV as a vision engineer.
- 2013–2014 **FOUNDER OF Microsoft Technology Club in Zhuhai** Operation
Undertake seminars and competitions for Microsoft.
- 2012–2013 **CHAIRMAN OF STUDENT UNION** Management
The chairman of Student Union in the School of Mobile Information Engineering.

Publications

- 2017 **FreeDetector: Device-Free Occupancy Detection with Commodity WiFi** SECON
Accepted by the 1st Workshop on Smart and Connected Indoor Environments,
IEEE International Conference on Sensing, Communication and Networking
2017, San Diego, USA (Han Zou, Yuxun Zhou, Jianfei Yang, Weixi Gu)
- 2016 **Online Visual Tracking via Correlation Filter with Convolutional Networks** VCIP
Accepted by IEEE International Conference on Visual Communications and Im-
age Processing 2016, Chengdu, China (Jianfei Yang, Zheng Li, Long Chen,
Juanzha)
- 2015 **Compressive Perceptual Hashing Tracking with Online Foreground Learning** ROBIO
Accepted by IEEE International Conference on Robotics and Biomimetics 2015,
Zhuhai, China (Zheng Li, Jianfei Yang, Long Chen, Juanzha)
- 2015 **Robust Vehicle Tracking Using Perceptual Hashing Algorithm** ICMLA
Accepted by IEEE International Conference of Machine Learning and Applica-
tion 2015, Miami, USA (Jianfei Yang, Zheng Li, Long Chen).
- 2015 **Traffic Detection System Based on Unmanned Aerial Vehicle Integrated Analy-
sis(UAVIA) in E-Business Logistics** ICEBE
Accepted by IEEE International Conference on e-Business Engineering 2015,
Beijing, China (Jianfei Yang, Zhaoyang Zeng, Zhou Fang)

awards

May. 2017	Microsoft Imagine Cup in China, First Prize	Microsoft
March. 2017	Buildathon of Ministry of Education of Singapore, Champion	Ministry of Education of SG
Dec. 2016	China Mobile Internet of Things Hackathons, Champion	China Mobile
May. 2016	Microsoft Beauty of Programming Challenge, Champion	Microsoft Research Asia, IEEE
Nov. 2015	National Mobile Internet Innovation Contest, First Prize	Ministry of Industry
Sep. 2015	National Undergraduate IOT Design Contest, First Prize	Ministry of Education of China
Aug. 2015	HackNTU, Intel and Migo Prize	National Taiwan University
Jun. 2015	Unique Hack Day, Rank 2nd	Huazhong University of Science and Technology
Apr. 2015	American Mathematical Contest In Modeling, Meritorious Winner	International
Mar. 2015	Robot Hackathon in China, First Prize	ALDEBARAN
Sep. 2014	Ke-teng Cup Application Competition, First Prize	SYSU
Sep. 2013	Undergraduate First-class Scholarship and Giordano Scholarship	SYSU
Dec. 2012	Global Management Challenge 2nd Prize in China	GMC Committee

projects

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 2016 | Indoor localization in Smart Home | IoT lab, NTU |
| | We utilize commercial off-the-shelf routers to localize mobile devices equipped with WiFi modules passively for smart home. The localization algorithm is based on calibration data and machine learning algorithms. | |
| 2015 | Naorrator Display Framework based on Robot Nao | Robot Nao Development |
| | The display system is designed for The Canton Fair. I make the robot to control the PC and make presentations, whose technologies include socket, Nao-api and markup language. | |
| 2014 | Search engine based on Wechat | Ke-teng Cup Application Competition |
| | Using data mining, I combine the searching result of Taobao, Dangdang, Amazon and Jingdong business platform and get the best result according to the requirement. The server is implemented by Flash (Python) while the client is based on Wechat. | |
| 2014 | Visual system for a smart car | DJI Intern |
| | Build a recognition system for a smart car. I use the color and texture information to recognize the extern objects and guide its direction. | |
| 2013 | Low-cost communication system based on 3G | Provincial Scientific Research Project |
| | Build a low-cost communication system based on image detection and subtraction, compression and transmission. | |

interests

professional:

- Computer vision (Object recognition and tracking, image processing)
- Android app creation (Specific design for customer)
- Software design (Qt for C/C++ and Python)
- Data mining (Participate in a intelligent transportation planning project)
- Cloud computing (Familiar with Windows Azure, SAE, GAE, etc)
- Unmanned aerial vehicle (Control and visual system)

personal:

- Saxophone (Toppest grade certified by the China Conservatory of Music)
- Guitar, Ukulele (Playing and singing)
- Climbing and photography (Outward Bound Trainer certified by the Ministry of human resources and social security)