

Yunhao Ge

SECOND YEAR M.PHIL STUDENT

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Summary

I am a last year M.Phil in Robotics Institute at Shanghai Jiao Tong University, advised by Prof. Yanzheng Zhao and Prof. Weixin Yan. I got the B.Eng. of Mechatronics at Shandong University, advised by Prof. Shujiang Chen. My research interests are on Computer Vision, Machine Learning (including Deep Learning), Intelligent Control and Bionic Robot. **Looking for a Interest-Match Ph.D. Program which starts from Fall 2019.**

Education

Shanghai Jiao Tong University

Shanghai, China

MASTER OF SCIENCE(MSC), ROBOTICS AND ARTIFICIAL INTELLIGENCE

Sep. 2016 - Jun. 2019(expected)

- Overall **Ranking 6th/210**
- Medical Robotics and Intelligence Group, Robotics Institute of Shanghai Jiao Tong University
- Research Topics:
 - Image Processing (Computer Vision):
 - Synthesis: Unpaired MRI to CT synthesis based on Generative Adversarial Networks
 - Detection: Automatic Detection and Segmentation of rectal cancer based on Multimodal fusion and deep neural network
 - Detection and Software: Cell morphology recognition platform based on deep neural network
 - Classification and Segmentation: Benign and malignant Mammographic classification; Melanoma Segmentation and Classification
 - Gesture prediction:
 - Real-time Gesture Prediction System Using Neural Networks and Multimodal Fusion based on data glove
 - Disease prediction:
 - Artificial Intelligence Aided genetic risk prediction of diabetes
 - Accurate scanning:
 - High Precision Dual-Wedge Laser Scanning System
- Engineering and Enterprise mentor: Huanhua Liao (Former vice president of Tencent)
- Medical Radiology mentor: Prof. [Tianye Niu](#) (Zhejiang University)

Shandong University

Jinan, China

BACHELOR OF SCIENCE(BSC), MECHATRONICS

Sep. 2012 - Jun. 2016

- GPA: Overall: 86.3/100 | Major: 94.4/100 | **Ranking 1th/66**
- Research Topics:
 - Robotics Intelligent Control: Intelligent control of wheeled robot and PTZ Platform
 - Bionic robotics: Two-layer barrier free parking system based on bionic manipulator; drive performance analysis of biologic suction cup

Publication

Unpaired MR to CT synthesis with multi-view adversarial learning

SPIE-Image Processing

YUNHAO GE, ZHONG XUE, YIQIANG ZHAN, XIANG ZHOU

Aug. 2018(under review)

Automatic Detection and Segmentation of rectal cancer based on Multimodal fusion and deep neural network

Medical Image Analysis (SCI)

YUNHAO GE, BIN LI, WEIXIN YAN, TIANYE NIU

March. 2018(under review)

A Real-time Gesture Prediction System Using Neural Networks and Multimodal Fusion based on data glove

ICACI'18

YUNHAO GE, BIN LI, WEIXIN YAN, YANZHENG ZHAO [PAPER](#)

Dec. 2017(Accept)

Melanoma Segmentation and Classification in Clinical Images Using Deep Learning

ICMLC'18

YUNHAO GE, BIN LI, ENGUANG GUAN, WEIXIN YAN, YANZHENG ZHAO [PAPER](#)

Jan. 2018(Accept)

Benign and malignant mammographic image classification based on Convolutional Neural Networks

ICMLC'18

BIN LI, YUNHAO GE, ENGUANG GUAN, WEIXIN YAN, YANZHENG ZHAO [PAPER](#)

Jan. 2018(Accept)

Effect of Mechanical Error on Dual-Wedge Laser Scanning System and Error Correction

Applied Optics (SCI)

YUNHAO GE, JIHAO LIU, WEIXIN YAN, YANZHENG ZHAO [PAPER](#)

June. 2018(Published)

Interactive Experience across Modern Age and Tradition: Application of Arduino in Shadow Play

KUN YIN, YUNHAO GE, HESHAN LIU, YONGQUAN YIN  PAPER

Advances in Mechatronics and Machinery

Jun. 2017(Published)

Dynamic Drive Performances of the Bionic Suction Cup Actuator Based on Shape Memory Alloy

YUNHAO GE, JIHAO LIU, HUIHUA MIAO, WEIXIN YAN, YANZHENG ZHAO  PAPER

Intelligent Robotics and Applications

Aug. 2017(Published)

Overseas Experience

The University of North Carolina at Chapel Hill

THREE MONTHS INTERN STUDENT

North Carolina, USA

June. 2018 - Aug. 2018

- Medical Image Synthesis: Unpaired MRI to CT Image Mapping based on Generative Adversarial Networks
Using CycleGAN to mapping MRI to CT, and helping to make Radiation therapy plan

Skills


Programming Python (Numpy, Tensorflow, Caffe, Keras, Sklearn), OpenCV, PyQt, Matlab, C, C++, CUDA, Shell, LaTeX
Design Solidworks, CAD, UG, Ansys
Languages Chinese(Native), English(TOEFL 100, IELTS 6.5 (speaking 7.0) fluent in reading and writing academic papers)

Honors & Awards

SCHOLARSHIPS

Sep 2017 **National Scholarship(Graduate)**, highest honor for graduates, **top 1% nationwide** *Shanghai, China*
Sep 2015 **National Scholarship(Undergraduate)**, highest honor for undergraduates, top 2% nationwide *Jinan, China*
Sep 2015 **Presidential Scholarship**, highest honor in Shan Dong University, **top 0.2% in Shan Dong University** *Jinan, China*
Sep 2015 **BaoGang Excellent student Scholarship**, Only 4 excellent students awarded in Shandong University *Jinan, China*
May 2018 **KaiYuan Motivational Scholarship**, **top 0.5% in Shanghai Jiao Tong University** *Shanghai, China*
2013-2015 **First Prize Scholarship**, top 6% in China, three-year continuous *Jinan, China*

CONTESTS

Aug 2017 **The first prize**, 2017 ROBOMASTER **The World's Leading Robotics Competition** (Responsible for the design of electronic control in robotics) *Shenzhen, China*
Mar 2018 **Rank 1st (preliminary competition)**, Tianchi: Precision medical competition-Artificial Intelligence Aided genetic risk prediction of diabetes  *Shanghai, China*
Oct 2015 **The first prize**, 9th international college students ican innovation and entrepreneurship contest *Beijing, China*
Aug 2015 **The Special prize(Top 1%)**, 6th National University Students Process Equipment Practice and Innovation Competition *Nanchang, China*
Aug 2015 **The Silver prize**, 8th national college students in energy saving social practice and science and technology competition *Harbin, China*

Patent & software

Pulmonary Nodular Assisted Detection System Based on AI(V1.0)

BIN LI, YUNHAO GE 2018SR037095

Software

Jan. 2018

A two-layer barrier free parking equipment based on bionic manipulator

YUNHAO GE, SHANGZE YANG, ZHENG ZHANG, WEIXIN YAN, YANZHENG ZHAO CN201610712048

Patent for invention

Jan. 2017

A double decker parking equipment based on shear lifting mechanism and hydraulic mechanism

YUNHAO GE, XULONG ZHOU, PENG LIU, YANZHENG ZHAO CN201610704408

Patent for invention

Feb. 2017