

Yunhao Ge

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Education

University of Southern California

PhD, ilab, Computer Science Department

- Annenberg Graduate Fellowship at University of Southern California
- Advisor: Prof. Laurent Itti

Los Angeles, USA

Aug. 2019 - Present

Shanghai Jiao Tong University

MASTER OF SCIENCE, Robotics and Intelligence Group, Robotics Institute

- Overall **Ranking 6th/210** | GPA: Mechanical 3.43/4 | Computer science courses 3.80/4
- Advisor: Prof. Weixin Yan & Prof. Hongtao Lu & Prof. Yanzheng zhao
- Honor: Outstanding Graduate Thesis Award

Shanghai, China

Sep. 2016 - June 2019

Shandong University

BACHELOR OF ENGINEERING, Control Engineering and Mechatronics

- Overall **Ranking 1st/66** | GPA: Overall: 86.08/100 | Major: 93.38/100
- Honor: Outstanding Undergraduate Thesis Award

Jinan, China

Sep. 2012 - June 2016

Research Interests

My research interests lie in Computer vision, Robotics and General AI. Currently, I am focusing on simulating baby learning (Reasoning, Attention, Imagination) by using various learning algorithms (Representation Learning, Adversarial Learning, Meta Learning, GNN, Reinforcement Learning, etc.).

Publications

[1] Pose Augmentation: Class-agnostic Object Pose Transformation for Object Recognition

Yunhao Ge, Jiaping Zhao, Laurent Itti [PDF](#) [Code](#)

European Conference on Computer Vision (**ECCV**), 2020.

[2] Unpaired MR to CT Synthesis with Explicit Structural Constrained Adversarial Learning

Yunhao Ge*, Dongming Wei*, Zhong Xue, Qian Wang, Xiang Zhou, Yiqiang Zhan, Shu Liao (*=equal contribution) [PDF](#) [Code](#)

IEEE International Symposium on Biomedical Imaging (**ISBI**), 2019.

[3] Synthesis and inpainting-based MR-CT registration for image-guided thermal ablation of liver tumors

Dongming Wei, Sahar Ahmad, Jiayu Huo, Wen Peng, Yunhao Ge, Zhong Xue, Pew-Thian Yap, Wentao Li, Dinggang Shen, Qian Wang [PDF](#)

International Conference on Medical Image Computing and Computer-Assisted Intervention (**MICCAI**), 2019.

[4] Unpaired Whole-body MR to CT Synthesis with Correlation Coefficient Constrained Adversarial Learning

Yunhao Ge, Zhong Xue, Tuoyu Cao, Shu Liao [PDF](#) [Code](#)

SPIE-Medical Imaging, 2019 [oral]

[5] A Real-time Gesture Prediction System Using Neural Networks and Multimodal Fusion based on Data Glove

Yunhao Ge, Bin Li, Weixin Yan, Yanzheng Zhao [PDF](#) [Paper Link](#)

IEEE International Conference on Advanced Computational Intelligence (**ICACI**), 2018. [oral]

[6] HH-Net: Image driven microscope fast auto-focus with deep neural network

Yunhao Ge, Bin Li, Yanzheng Zhao, Weixin Yan [PDF](#)

International Conference on Biomedical Engineering and Technology (**ICBET**), 2019. [oral]

[7] Melanoma Segmentation and Classification in Clinical Images Using Deep Learning

Yunhao Ge, Bin Li, Weixin Yan [PDF](#) [Paper Link](#)

ACM International Conference on Machine Learning and Computing (**ICMLC**), 2018. [oral]

[8] Benign and Malignant Mammographic Image Classification Based on Convolutional Neural Networks

Bin Li, **Yunhao Ge**, Yanzheng Zhao, Enguang Guan, Weixin Yan [PDF](#) [Paper Link](#)

ACM International Conference on Machine Learning and Computing (ICMLC), 2018. [oral]

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

Yunhao Ge, Jihao Liu, Fenfen Xue, Enguang Guan, Weixin Yan, Yanzheng Zhao [PDF](#) [Paper Link](#)

Applied Optics (*Appl. Opt.* **IF:1.79**) 57, pp. 6047-6054, 2018

Honors & Awards

SCHOLARSHIPS

National Scholarship (Graduate) , top graduate nationwide	Nov. 2017
National Scholarship (Undergraduate) , top undergraduate nationwide	Nov. 2015
KaiYuan Motivational Scholarship , top 0.5% in Shanghai Jiao Tong University	Apr. 2018
Presidential Scholarship , top 0.2% in Shandong University	Nov. 2015
BaoGang Excellent student Scholarship , 4 Places per year at Shandong University	Nov. 2015
First Prize Scholarship , three-year continuous	2013-2015

CONTESTS

The first prize , 2017 ROBOMASTER The World's Leading Robotics Competition (Responsible for the design of electronic control in robotics)	Aug. 2017
Rank 1st (preliminary competition) , Tianchi: Precision medical competition-Artificial Intelligence Aided genetic risk prediction of diabetes Pred-diabetes	Dec. 2017
The first prize , 9th International college students Ican innovation and entrepreneurship competition	Oct. 2015

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 robotics based on bionic manipulator Yunhao Ge , Shangze Yang, Zheng Zhang, Weixin Yan, Yanzheng Zhao CN201610712048	Patent for invention Jan. 2017