

# YIQING WANG

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## 🎓 EDUCATION

**Shanghai Jiao Tong University (SJTU)**, Shanghai, China 2019 – Present

*Undergraduate student* major in Biomedical Engineering (BME), minor in Computer Science (CS)

- GPA: 3.85/4.3
- Rank: 5/76
- Major Coursework: Digital Electronics (99), Microcomputer Principles (96), Biomedical Signals and System (94.5), Biomedical Image Processing (95), Principles of Automatic Control (92)
- Minor Coursework: Discrete Mathematics (94), Software Engineering (87), Computer Network (85), Operating Systems (80)

## ♡ HONOR AND AWARDS

Scholarship of School of Biomedical Engineering Alumni Association	Nov. 2022
Merit Student of Shanghai Jiao Tong University	Oct. 2022
Shanghai Municipal Government Scholarship	Oct. 2021
Class A Scholarship of Shanghai Jiao Tong University	Oct. 2020
Scholarship of School of Biomedical Engineering Alumni Association	Oct. 2020

## 🔍 SCHOLAR EXPERIENCES

**IMIT @ SJTU** directed by Lichi Zhang Dec. 2022 – Present

*Thesis* Intelligent Registration and Parameter Planning for Lower Limb Multi-modal Image

- Construct a 2D-3D registration method for plain X-ray and CT images
- Compute the optimal parameters to guide the plate for HTO surgery

**CCVL @ JHU** directed by Alan Yuille & **VLAA @ UCSC** directed by Yuyin Zhou & Cihang Xie  
June. 2022 – Nov. 2022

*Summer Internship* Multi-view MAE for 3D medical image representation learning

- Presented the first multi-view pipeline for self-supervised medical image analysis
- Achieved a comparable performance to the current state-of-the-art method with less training cost
- Submitted to *CVPR 2023*

**Advanced MRI Lab @ SJTU** directed by Hongjiang Wei Feb. 2022 – Jan. 2023

*Internship* Brain Region Segmentation and Age Estimation Using QSM

- Created a novel network to segment several key brain areas on QSM images to improve brain age prediction
- Improved brain age estimation compared to previous studies based on T1w MRI
- Accepted by *ISMRM 2023* and submitted to *NeuroImage*

**CITI @ SJTU** directed by Guoyan Zheng Aug. 2021 – Feb. 2022

*Student Project* Key Algorithms for 3D Reconstruction from 2D X-rays and Intelligent Diagnosis

- Evaluated popular deep-learning segmentation networks
- Improved the performance of domain adaptation segmentation based on Cross Domain Transformer
- Awarded an outstanding student project

## PUBLICATIONS

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(First Author) <sup>1</sup>**Yiqing Wang**, Yuting Shi, Hongjiang Wei. A Brain Age Estimation Network based on QSM using the Segment Transformer. *2023 International Society for Magnetic Resonance in Medicine (ISMRM)*. (Accepted)

(Co-first Author) <sup>1</sup>Mingxing Chen, <sup>1</sup>**Yiqing Wang**, <sup>1</sup>Yuting Shi, Xiaojun Guan, Yuyao Zhang, Hongjiang Wei. Brain age prediction based on QSM using Segmentation Transformer. *NeuroImage*. (Submitted)

(Co-first Author) <sup>1</sup>**Yiqing Wang**, <sup>1</sup>Zihan Li, Zihao Wei, Jieru Mei, Li Liu, Chen Wang, Alan Yuille, Shengtian Sang, Cihang Xie, Yuyin Zhou. SwinMM: Masked Multi-view with Swin Transformers for 3D Medical Image Segmentation. *2023 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. (Submitted)

## SKILLS

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**Programming Languages** Python, C, C++, Matlab

**Deep Learning Frameworks** PyTorch, TensorFlow, Keras

## LANGUAGES

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**English** Fluent

- **TOEFL** Total 107, Reading 30, Listening 29, Speaking 22, Writing 26
- **GRE** Quantitative 170, Verbal 153, Analysis Writing 3.5

**Chinese (Mandarin)** Native Speaker