

# YONGSHUO LIU

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## Education

**Qingdao Agricultural University**

**Sep. 2019 – May 2023**

*Bachelor of Engineering in Computer Science, GPA:3.33/4.0*

*Qingdao, Shandong*

**Thesis:** Design and Implementation of Face Recognition Sign-in System Based on Deep Learning and Flask

**Research focus:** Application of deep learning in navigational systems

## Publications

**Research into Ship Trajectory Prediction Based on An Improved LSTM Network**

**JMSE**

*Jiangnan Zhang<sup>1</sup>, Hai Wang<sup>2</sup>, Yongshuo Liu<sup>2</sup>, Zhenxing Liu<sup>2</sup> and Junyu Dong<sup>1,\*</sup>*

*June 2023*

**Research On Multi-Source Ship Trajectory Processing And Matching Method Based On Graph Neural Network**

**JMSE**

*Jiangnan Zhang<sup>1,2</sup>, Yongshuo Liu<sup>3</sup>, Fengjuan Cui<sup>4</sup>, Zhenxing Liu<sup>3</sup>, and Junyu Dong<sup>1,\*</sup>*

*Under peer review*

**Research On Maize Disease Identification Methods In Complex Environments Based On Cascade Networks And Two-Stage Transfer Learning**

**Scientific Reports**

*Hongxin Liu, Haichen Lv, Jiajun Li, Yongshuo Liu and Limiao Deng*

*November 2022*

## Projects

**Shandong Province Agricultural Science and Technology Service Project**

**August 2019 - May 2022**

Construction of Agricultural Science and Technology Service Application System

- **System Design and Implementation:** Participate in the development of the Science and Technology Special Commissioner System, ensuring streamlined operations and enhanced service delivery.
- **Target Detection Algorithm Development:** Developed a Faster R-CNN-based approach to extract features from pest and disease-affected areas, significantly enhancing classification accuracy.
- **Efficient Classification Model Development:** Implemented dynamic convolution and early exit mechanisms to boost both model accuracy and computational efficiency.
- **Patents Awarded:**Caixia Song,Pengmin Xu,**Yongshuo Liu**,Zhiguo Qi (2020). A reservation system for science and technology special commissioners, Chinese Patent CN111931964A.
- **Patents Awarded:**Jiangnan Zhang,Junyu Dong,Feng Gao,Hai Wang,Wenbo Li, **Yongshuo Liu**(2022). Method for identifying multiple types of crop leaf diseases using dynamic neural networks, Chinese Patent CN114022872A.

## Technical Skills

**Languages:** Python, C, C++, HTML/CSS, JavaScript, SQL

**Developer Tools:** Pycharm, Eclipse

**Technologies/Frameworks:** Pytorch, Tensorflow, Flask, Sklearn, Linux

## Honors & Awards

2020 **National Inspirational Scholarship**, Recognizes outstanding computer majors, nominated by faculty.

2021,2023 **Third-Class Scholarship**, Recognizes outstanding computer majors, nominated by faculty.

2021,2022 **Third Prize, National Undergraduate Mathematical Modeling Contest**, nominated by the Shandong Education Department.

2023 **Outstanding Bachelor's Thesis**,selected by Qingdao Agricultural University

2020,2021,2023 **Merit Student**,Recognizes outstanding computer majors, nominated by faculty.

## Referees

**Dr. Jingtao Jiang**

Professor of Mechanical and Electrical Engineering at Qingdao Agricultural University,**Email:** jjtao\_2518@163.com

**Dr. Hongtao Shi**

Associate Professor of Computer Science at Qingdao Agricultural University,**Email:** sht@qau.edu.cn

**Dr. Limiao Deng**

Associate Professor of Computer Science at Qingdao Agricultural University,**Email:** lmdeng@qau.edu.cn