

## CONTACT

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## SKILLS

Python	3+ yrs
C++	1+ yrs
Matlab	1+ yrs
Machine Learning	3+ yrs

# ZHANG YIN RUI

Computer Science & Engineering

## RESEARCH INTERESTS

During my studies at the University of Malaya, I achieved CGPA of 3.53/4. My research has concentrated on deep networks and their interpretability, with a particular focus on the performance of convolutional networks in medical image detection and enhancing their self-explanatory capabilities. I am eager to pursue further research in deep neural networks, especially in improving their interpretability and applying these advancements to critical areas such as medical imaging. My aim is to contribute to the development of robust, reliable, and transparent AI systems that provide valuable insights and support informed decision-making.

## EDUCATION

**Master - Computer Science(Applied Computing)**  
**University of Malaya - Kuala Lumpur(Malaysia)**

2021 - ongoing

Current Status: Coursework completed with CGPT 3.43/4.0.  
Thesis work on Machine Learning and Interpretability.

**Bachelor - Automation**  
**Southwest Minzu University - ChengDu (China)**

2016 - 2020

Passed with **80.03 Average Score**.  
Thesis work on Computer Vision and Machine Learning

## INTERSHIP & WORK EXPERIENCE

**Engineering**  
**China Realway Construction Company**

2020 - 2021

I worked as an architecture engineer there.

**Engineering**  
**Sichuan Huadi Information Technology Co.,Ltd.**

2019

I was an intern there, and my main job was to participate in project hardware and software designing.

## PUBLICATIONS

**A Go referee system based on MLP neural network and computer vision**  
**Application (patent) number: CN201910676706.2**

China Patent

Status: Authorized

**A system and method for reconstructing glasses through facial key point recognition**  
**Application (patent) number: CN201911001584.3**

**China Patent**

Status: Authorized

## **PROJECTS**

**Computer Aided Melanoma Diagnosis Using Interpretable Deep Model**

**2023-2024**

**Tool: Python**

Using prototype based autoencoder network to explain the reason of the decision model made while detecting and classifying melanoma.

**Computer-aided vision detection system based on human posture recognition**

**2020-2021**

**Tool: Python**

The visual mark displayed on the vision test guides the subject to perform specified actions. By identifying and processing the test subject's posture, it is judged whether it is correct. Achieve the effect of vision examination and exercise.

**System And Equipment For Computer-Aided Retinopathy Detection**

**2019-2020**

**Tool: Python**

An optical image acquisition device to collect retinal images, and then analyzes and diagnoses the images through machine learning models.

**Go Referee System Based On Computer Vision And Machine Learning**

**2018-2019**

**Tool: Python**

Computer vision and machine learning technologies are used to calculate the outcome of the Go final game pictures uploaded by users. This system has been launched in 2020.

## **HONORS & AWARDS**

**The 4th China International College Students' "Internet+" Innovation and Entrepreneurship Competition**

**University Second Prize**

**The 5th China International College Students' "Internet+" Innovation and Entrepreneurship Competition**

**University First Prize & Provincial Third Prize**

The China International College Students' "Internet+" Innovation and Entrepreneurship Competition has been held annually since 2015. 39.83 million college students comprising 9.43 million teams from five continents, 100 countries, and thousands of universities around the world have participated.

**Challenge Cup 2019**

**University First Prize & Provincial First Prize & National Third Prize**

'Challenge Cup' National Undergraduate curricular academic science and technology works by race known as the Chinese college students of academic science and technology 'Olympic' event.