

# Jiashuo CHANG

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## ACADEMIC BACKGROUND

### Central South University

China

Bachelor's Degree will be awarded in July 2026

09/2022-07/2026

- **Major:** Computer Science and Technology
- **School:** Dundee International Institute of Central South University (DIICSU)
- **GPA:** 90.66 / 100    **Rank:** 13 / 60
- **Major Courses:** *Multi-paradigm Programming and Data Structures, Mathematical Logic in Computing Algorithms and Artificial Intelligence, Networks and Data Communications, Database Systems, etc.*

### University of Dundee

UK

Bachelor's Degree will be awarded in July 2026

09/2022-07/2026

- **Major:** Computing Science
- **School:** Dundee International Institute of Central South University (DIICSU)

## PROJECTS & ACADEMIC RESEARCH

### ❖ MMP-2K: A Benchmark Multi-Labeled Macro Photography Image Quality Assessment Database

Supervisor: [Prof. Hanhe Lin \(UoD\)](#)

02/2024-01/2025

- **Research Content:** The research focuses on creating a large-scale multi-labeled macro photography image quality assessment (MPIQA) database, MMP-2k, to address the lack of MPIQA data and provide a foundation for improving quality evaluation metrics for macro photography.
- **Key Contributions: (Co-first Author & Core Research Member)**
  - ✧ Dataset construction and annotation:  
Designed the structure of the dataset and designed and participated in the procedure of data annotation to ensure high data quality and usability.
  - ✧ Full-Stack Platform Development:  
Developed front-end design using Vue.js to create an intuitive user interface, enabling researchers to easily browse and go through all subjective studies;  
Implemented back-end functions for data storage and retrieval using Python with Flask framework.
  - ✧ Performance Optimization and Technical Problem-Solving:  
Participated in optimizing system performance and resolving technical challenges, ensuring the platform could perfectly record all rates and annotations and respond efficiently.
- **Research Result:**  
The project has been accepted by the *IEEE International Conference on Image Processing, IEEE ICIP 2025*, with the dataset now publicly available on GitHub and Huggingface.  
**GitHub Repository Link:** [Future-IQA/MMP-2k](#)  
**Huggingface Link:** <https://huggingface.co/datasets/MMP-2k/MMP-2k>  
**Paper available at:** [\[2505.19065\] MMP-2K: A Benchmark Multi-Labeled Macro Photography Image Quality Assessment Database](#)

- ❖ **Human-Computer Interaction, PSYNAV: Exploring User Needs and Expectation and Designing AI Psychological Assistants (Jointly conducted by the University of California, Los Angeles (UCLA) and Xi'an Jiaotong University)**  
07/2023-08/2023

**Supervisor:** [Prof. Xiang 'Anthony' Chen \(UCLA\)](#)

- **Research Content:** The project aimed to design and develop an AI Psychological Assistant capable of identifying user emotions and providing personalized mental health support based on real-time interaction data and user feedback.
- **Key Contributions: (Team Leader)**
  - ✧ Conducted user needs research and participatory design;
  - ✧ Organized team members and coordinated tasks across all phases.
- **Research Result:**

Published a paper titled *PSYNAV: Exploring User Needs and Expectation and Designing AI Psychological Assistants* at the 2025 IEEE 7th International Conference on Artificial Intelligence, Computer Science and Information Processing (AICSIP 2025).

❖ **Artificial Intelligence and Machine Learning (AI-ML) (National University of Singapore)** **01/2024**

**Supervisor:** [Prof. Mehul Motani \(NUS\)](#)

- **Research Content:** This project utilized machine learning techniques to predict population trends in Singapore and China.
- **Key Contributions: (Team Leader)**
  - ✧ Gained in-depth knowledge of machine learning concepts such as regression and classification, and became familiar with foundational machine learning algorithms;
  - ✧ Participated in the development and optimization of the predictive model, ensuring its accuracy and reliability.
- **Research Result:**

Achieved a certain level of accuracy in predicting population trends using real-world demographic datasets; project outcomes demonstrated the practical value of machine learning in socio-economic forecasting.

## PUBLICATIONS

- **PSYNAV: Exploring User Needs and Expectation and Designing AI Psychological Assistants (Author)**

Accepted by 2025 IEEE 7th International Conference on Artificial Intelligence, Computer Science and Information Processing (AICSIP 2025) in April 2025
- **MMP-2K: A Benchmark Multi-Labeled Macro Photography Image Quality Assessment Database (Author)**

Available at: <https://arxiv.org/abs/2505.19065>  
Accepted by IEEE International Conference on Image Processing, IEEE ICIP 2025 in May 2025

## EXTRACURRICULAR ACTIVITIES

Contestant, The “Jisi Cup” College Student Research-Oriented Learning Achievement Competition	<b>06/2024</b>
Contestant, The 15 <sup>th</sup> China Collegiate Service Outsourcing Innovation & Entrepreneurship Competition--Hanson Software Central China Regional Division	<b>12/2023-06/2024</b>
Volunteer, Xi'an Recruitment and Promotion Team, Central South University	<b>12/2022-Present</b>
Organization and Publicity Coordinator, Class D2201, Dundee International Institute of Central South University	<b>09/2022-Present</b>

## INTERNSHIP EXPERIENCE

<b>Intern Backend Developer</b>	<b>Photovoltaic &amp; Energy Storage Products Department of Xi'an R&amp;D Center</b>
	<b><u>EAST Energy Storage Technology Co., Ltd</u></b>
	<b>07/2024-09/2024</b>
➤ Contributed to AI integration for the platform by designing and developing both voice recognition and facial recognition login systems using Baidu AI Cloud API, enhancing user experience and platform security;	

- Participated in the back-end design and implementation of voice recognition and facial recognition features using Python with Flask Framework, ensuring the system's efficient and stable operation;
- Engaged in data processing and system performance optimization work;
- Enhanced programming skills, accumulated practical experience in applying AI technology in actual products, and strengthened system development and implementation capabilities.

## AWARDS & SKILLS & INTERESTS

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### ❖ Languages:

IELTS: 7.0 (L: 8.5; R: 7.5; W:6.0; S: 6.0)

CET (College English Test ) 4 589/710

CET (College English Test ) 6 515/710

### ❖ Computer Skills: Word, PPT, Excel, Java, C, C++, Python, HTML, JavaScript, CSS, Bash, Flask, Vue, ElementUI

### ❖ Interests: Reading, Playing Football, Photography, Fine Arts

### ❖ Honours/Awards:

Third-Class Scholarship of Central South University in the Academic Year 2023-2024 **11/2024**

Third Prize in the 15<sup>th</sup> China Collegiate Service Outsourcing Innovation & Entrepreneurship Competition--Hanson Software Central China Regional Division **06/2024**

Third Prize in the “Jisi Cup” College Student Research-Oriented Learning Achievement Competition **01/2024**

Third-Class Scholarship of Central South University in the Academic Year 2022-2023 **11/2023**

Excellent Student Leader, Central South University in the Academic Year 2022-2023 **10/2023**