

Name: Chenrui Ma

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Homepage

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Education Background

➤ Central South University Undergraduate Computer Science(BS.CS) 2021. 09–2025. 06

(in progress)

Major Core Courses: Analysis and Design of Algorithms(A), Operating Systems(A), Computer Networks(A+), Principles of Computer Organization and Assembly Language, Database Principles, Software Engineering(A+)

Major Courses: Computer Architecture(A+), Machine Learning(A), Digital Image Processing(A+), Deep Learning(A+),

Computer Vision(A+), Data Warehousing and Data Mining(A+), Distributed Systems and Cloud Computing(A+),

Visualization Techniques(A+), Embedded Systems(A+), Artificial Intelligence(A+), Bioinformatics(A+), Linux System

and Applications(A+), C Programming, Java Programming and Application Development, Python Programming(A),

Human-Computer Interaction(A+)

Current GPA: 3.53 (85.26/100)

GPA for the Last Two Semesters: 3.8 (90.5/100)

➤ University of California, Irvine Joint Education Student Computer Science 2024. 09–2025. 06 (in progress)

Completing my senior year studies, research, and preparations at UCI, while planning to pursue a Ph.D. in the future.

## Awards and Honors

$\triangleright$	University-level Third Prize Scholarship	2023. 09
>	Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)Second Prize	2023. 09
>	"HuaShu Cup" China College Students' Mathematical Contest in ModelingFirst Prize	2023. 07
$\triangleright$	University-level Second Prize Scholarship	2024. 09

## Research Experience

Central South University Data Asset Graph Research Group

2023. 06-2024. 05

- ◆ Supervisor: <u>Professor Ying Zhao</u>
  - Exploring an efficient and accurate method to identify core data assets in data assets. (Under Review)
    - ◆ Title: Data Asset Valuation on Data Lineage Graph
- Central South University Medical Image Analysis and Computer Vision Group

2024.03-Present

- Supervisor: <u>Professor Rongchang Zhao</u>
  - Developing accurate image segmentation techniques for sparsely labeled CT slice sequences, applied to predicting patient survival periods. (*in progress*)
- Yunnan University Visual and Media Computing Laboratory

2023, 09-2024, 08

- Supervisor: <u>Professor Guowu Yuan</u>
  - Developing an enhanced YOLOv7tiny-based rapid detection model for cigarette appearance defects.
    - ◆ Title: <u>SCS-YOLO</u>: A <u>Defect Detection Model for Cigarette Appearance</u>
  - Developed a novel end-to-end dense object detection method based on differentiated encoding, improving deduplication capability and detection accuracy while reducing model parameters.
    - ◆ Title: <u>Dense Object Detection Based on De-Homogenized Queries</u>

## Internship Experience