

Mingqian Liao

SUSTech, China

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Education

University of California, Berkeley

Visiting Student

Berkeley, USA

Jan 2023 - May 2023

- **Courses:** Machine Learning, Deep Learning, Graduate Computer Vision, Operating System

Southern University of Science and Technology

Junior Undergraduate

Shenzhen, China

Sept 2020 - Current

- 2nd Prize in SUSTech Excellent Student Scholarship

Experience

Southern University of Science and Technology

Teaching Assistant in Computer Network and C/C++ course

Shenzhen, China

Sept 2022 - Feb 2023

- Checking Lab exercises, and answering questions from students in class and after class
- Designing and grading Assignments for the course

Projects

Digging deeper into the value of Wordle through time series analysis and natural language processing

MCM 2023

China

Feb 2023

- Build time series models to explain changes in the number of active Wordle players and predict future trends
- Establish a probabilistic regression model of the distribution of guessing times to analyze the difficulty of Wordle games
- Use clustering algorithms to grade the difficulty of the game, and combine natural language processing techniques to build a classification model from the puzzle to infer the difficulty rating of the game

Matrix Class and CNN forward propagation Implementation in C++

Southern University of Science and Technology

Shenzhen, China

Sept 2021 - Dec 2021

- Build a relatively complete calculation library by referring to the Class cv::Mat in OpenCV
- Support matrix of different basic data types
- Implement the region of interest (ROI) to avoid hard copying of memory
- Implement a CNN model that can predict if the input image is a person (upper body only) or not
- Conduct a Series of performance tests, comparisons and optimizations carried out on the X86 and ARM platforms

Honors & Awards

2023 **Meritorious Winner**, MCM/ICM

COMAP

2023 **Distinguished Student Assistant**, Student Assistant in Computer Network

SUSTech

2022 **First Prize**, ASC Student Supercompute Challenge

Asia Supercomputer

Community

2022 **Second Place**, 2022 APAC HPC-AI Competition

Singapore

2022 **The 2nd prize**, SUSTech Excellent Student Scholarship

SUSTech

2021 **The 3rd prize**, SUSTech Excellent Student Scholarship

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