

DeFeng Zhou

DEEP LEARNING · REINFORCE LEARNING

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Education

SYSU(Sun Yat-sen University)

Shenzhen, China

B.S. IN INTELLIGENT SCIENCE AND TECHNOLOGY

Sept. 2021 - Jul. 2025

- GPA:3.8/4.0 (top **5%** of majors in 2021-2022)
- ranking **1st** in Image Process,Advanced mathematics,Cognitive Internship
- Supervisor: Shimin Gong

Skills

- Frameworks** PyTorch, TensorFlow, GYMS,scikit-learn
- DevTool** Git (version control system), Linux (operating system)
- Programming** Python,C/C++, Matlab, LaTeX, HTML, ASM, CAD
- Languages** Chinese, English(CET-4,CET-6)

Experience

Multimodal voiceprint recognition

Shenzhen, China

PRIMARY AUTHOR

Sep. 2022 - May. 2023

- Innovative proposal of using Wav2vec model to extract sound features, which improves the overall model multi-classification correct rate.
- Through experimentation, troubleshooting data to identify and solve model overfitting problems,advanced the progress of the project.
- The relationship between model accuracy and data is obtained by comparing the dataset and experimental results, which improves the interpretability of the model and contributes to proposing a standard for the dataset.

Diagnosis of acoustic diseases based on statistical analysis

Shenzhen,China

EXPERIMENTER

Jun. 2023 - Aug. 2023

- Automated extraction of multi-dimensional features of patient's speech achieved.
- Multi-perspective generalisability experiments, multi-classification experiments, and comparison experiments were conducted to fully demonstrate the validity of multi-dimensional features.
- Disease diagnosis using machine learning methods such as SVM, Kmeans, etc., early diagnosis.

Game Design and Development

Shenzhen, China

SOFTWARE ENGINEER

May. 2022 - Exp. Jan. 2023

- Self-taught independent development of a small game of Snake, the implementation of the game resources and environment dependencies of the packaging, adapted to the Windows system, the corresponding repo address: Snake-Game
- Reproduction of the Hammer Zombie part of the classic game Plants vs Zombies Pvz, corresponding repo address: My-Pvz

Honors & Awards

INTERNATIONAL

2022 **First Prize**, 12th Asia and Pacific Mathematical Contest in Modeling

Beijing, China

DOMESTIC

2023 **Finalist**, LingxiGames Cup(Programming Competition of Sun Yat-sen University in 2022)

GuangZhou, China

2023 **Second Prize**, 13th MathorCup Mathematical Modeling Challenge for Colleges and Universities

Shenzhen,China

SCHOLARSHIP

2021-2022 **Ethics Award**, Sun Yat-sen University 2021-2022 Specialized Scholarships

GuangZhou, China

2021-2022 **First Prize**, Sun Yat-sen University 2021-2022 Academic Scholarship

GuangZhou, China