

Luming Yang

+86 18578662690 | yanglm2020@mail.sustech.edu.cn ✉
21 YO | Southern University of Science and Technology 🌐
Website: skylynf.github.io



Background

Southern University of Science and Technology

Sept. 2020 - till now

Bachelor of Engineering in Computer Science and Technology

Shenzhen, Guangdong

- Overall GPA: 3.4/4.0 (3.68 in Last Semester) Weighted Avg. Score: 84.21/100

Main Course:

*Deep Learning	*Artificial Intelligence	*Software Engineering	Operating System
Computer Security	Computer Networks	*Data Mining	Discrete Mathematics
Probability and Statistics	*Com. Sys. Design and Application	*Algorithm Design and Analysis	

** Represents course project receive full marks*

Organizing Experience:

- President of SUSTech Red Cross (Student)
- Leader of SUSTech Emergency Rescue Association
- Vice President of the School Volleyball Club

The Hong Kong Polytechnic University | Exchange (Admitted)

Jan. 2024 – May 2024

Guangzhou No.2 Middle and High School

Sept. 2014 -Jun. 2020

- leader of student Information and Science Technology Department

Burton International School Detroit, Michigan, U.S.A.

Jan. 2010 – Jan. 2011

Honors

Scholarship

- | | |
|--|-----------|
| - University Motto Scholarship (1%) | 2023 |
| - National Scholarship Nomination (2%) | 2023 |
| - The Third Prize Scholarship of University (15%, twice) | 2021/2022 |

National Olympiad in Informatics and Collegiate Programming Contest

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|--|-----------|
| - National Olympiad in Informatics in Provinces (Senior/Junior) – First Prize (thrice) | 2018 etc. |
| - SUSTech Collegiate Programming Contest – Second Prize | 2022 |

International Genetically Engineered Machine Competition (iGEM)

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|----------------|------|
| - Silver Medal | 2023 |
|----------------|------|

China International Collegiate “Internet+” Innovation and Entrepreneurship Competition

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|--|------|
| - intramural competition – First Prize (First Place) | 2023 |
|--|------|

Student Honors

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|--|-----------|
| - Outstanding Youth in Guangdong Province (unique in the University) | 2023 |
| - Outstanding volunteer of SUSTech | 2021/2023 |
| - Ethic Award of SUSTech | 2022 |
| - Excellent student of SUSTech | 2021 |

Sports and Hobbies

- National Level - China ARDF (Radio Orienteering) Youth Championship – the First (champion)
- Municipal Level - Shenzhen Volleyball Championship (University cup) – the First (champion)
- Zhicheng College group badminton league – the First (champion)

Experiences

Evolving Machine Intelligence Lab of SUSTech

Jun. 2021 till now

Research Assistant

- Participated in developing the distributed scalable evolutionary computation intelligent acceleration library EvoX, and was responsible for the development of scalable algorithms that meet the functional programming standards using library JAX developed by google. GitHub: [EvoX](#) Report: [EvoX Report](#)

Smart Dynamics Co. Ltd

Jun. 2023 – Oct. 2023

Internship – Research and Development

- Actively contributed to the development of an AI-powered physical-world safety warning platform.
- Applied optimization algorithms to fine-tuning of the platform, improving the accuracy by 7%.

Guangdong Youth Big Data and New Media Center

Aug. 2020 – Sept. 2020

Internship - Responsible for information retrieval, and data analysis

- Due to data confidentiality, a similar project can be referred. GitHub: [AnalyzeSOF](#)

Research and Projects

TensorACO: Tensorized Ant Colony Optimization for GPU Acceleration

Oct. 2023

Sole First Author | Corresponding Author: [Prof. Ran Cheng](#)

- With tensorization, optimizing **1971x** compared to serialization methods with no loss of quality. New exploration of I-Roulette, achieved an extra acceleration of **2.1x**. [Under Reviewing](#) - GECCO'24.

Enhancing Action Recognition via RGB-Skeleton Fusion with Transformer

Aug. 2023

Sole First Author | Corresponding Author: Dr. Lei Ding

- A state-of-the-art solution in action recognition, achieved an accuracy of 0.955 on KTH dataset. Enhanced 10% in accuracy during tests across diverse background settings. [Submitted](#) to ICME 2024.

Traffic Sign Detection with YOLOv8 | Advisor: [Prof. Jianguo Zhang](#)

May 2023

- YOLOv8 on Edge Device Jetson Nano for traffic sign recognition. Report: [Traffic Sign Detection](#)
- Designed experiment, dataset establishment, parameter adjustment, model accelerating, analysis.

Capacitated Arc Routing AI Based on Heuristic Genetic Algorithm

Dec. 2022

- Developed an algorithm, introduced an operator and shuffle process to optimize solutions, with a focus on reducing local optima. Conducted analysis and experiments. Report: [Heu. GA for CARP](#)

Other projects including Fund System, chess game and chat room apps, on GitHub.

Voluntary Experience

Total Volunteer Service Hours: 499.25 h

2020 till now

- Including sport events, academic conferences and competitions, caring for vulnerable group etc.

Student President of SUSTech Red Cross

2022 till now

- Founded the SUSTech Red Cross (Student), gained recognition as one of the five campus-level student organizations. Organized a variety of volunteer events, campus charity markets, and fundraising initiatives. Conducted first aid course including CPR for students and staff, with over 2,000 trained.
- Achieved the distinction of "Distinguished Member of Red Cross" in Guangdong province.

Campus Volunteer First Aid Responder

2020 till now

- Responded to over 60 emergencies, effectively managing diverse situations, including suspected cases of epilepsy, fractures, trauma, heatstroke, hyperventilation, and snake bites.
- Avg. response time less than 3 mins, significantly faster than the avg. ambulance arrival time.
- Honored with 'SUSTech Emergency Rescue Model' for outstanding contributions, twice.

Others

- English Proficiency: TOEFL (**105**), CET-4/6, have experience of overseas studying and oral translating, well-equipped to seamlessly integrate English into both academic and endeavors
- AHA HeartSaver®, Red Cross First Aid Certificate, China Red Cross Rescue Mentor qualification
- Radio Operator License (Level A), National Volleyball Referee certificate (Level 2)