YANG Luming

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21 YO | Southern University of Science and Technology

Website: skylynf.github.io

Background

Burton International School Detroit, Michigan, U.S.A.	Jan. 2010 – Jan. 2011
Guangzhou No.2 Middle and High School	Sept. 2014 -Jun. 2020

- leader of student Information and Science Technology Department

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 Junior 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

Honors

Scholarship

- University Motto Scholarship (Dean's 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

- 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)

- Silver Medal	2023

China International Collegiate "Internet+" Innovation and Entrepreneurship Competition

- intramural competition – First Prize (First Place)	2023

Student Honors

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

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

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](#)

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 construction site safety warning platform.
- Apply optimization algorithm to fine-tune the platform, improving the effect by 7%.

Research and Projects

Tensorized Ant Colony Optimization for GPU Acceleration   Oct. 2023

Sole First Author | Corresponding Author: Prof. Ran Cheng

- With tensorization, optimizing **89x** compared to serialization methods with no loss of quality. New exploration of i-roulette, achieved an extra acceleration of **2.1x**. Waiting for Submission to 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.

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](#)

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.

Other intriguing 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)