

Tianrun Qiu

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University: Southern University of Science and Technology (SUSTech) *Location:* Shenzhen, China

GitHub: RoderickQiu (1k+ star) * *Google Scholar:* Tianrun Qiu * *Pixabay:* r-q (294k+ view)

Education

Southern University of Science and Technology (SUSTech)

B. Eng.

Computer Science and Technology (4th year)

Sep 2022 - Present

3.85/4.00 Overall GPA, 3.91/4.00 Major GPA

Highest scholarship (School Motto Scholarship) recipient

Research Experience

DVA Lab, SUSTech

Nov 2023 - Present

Research Assistant

Shenzhen, Guangdong, China

- Supervisor: Prof. Yuxin Ma
- Focus: Human-AI collaboration in creativity support and visual accessibility.

HCI Initiative, HKUST

Jun 2025 - Sep 2025

Research Intern

Hong Kong SAR, China

- Supervisor: Prof. Xiaojuan Ma
- Focus: Primarily on physiological signal-based HCI for experiment guidance, while also participating in chemical reasoning research.

Papers

HarmonyCut: Supporting Creative Chinese Paper-cutting Design with Form and Connotation Harmony

CHI '25 Full Paper

Huanchen Wang, Tianrun Qiu*, Jiaping Li, Zhicong Lu, Yuxin Ma†*

Tags: Creativity support tool; Generative AI-aided design. Collaborated with Prof. Zhicong Lu.

Contribution: Full implementation, ideation participation. 8 citations.

GamerAstra: Enhancing Video Game Accessibility for Blind and Low-Vision Players through a Multi-Agent Framework

Under Review

Tianrun Qiu, Changxin Chen*, Sizhe Cheng, Xuyang Liu, Xumeng Wang, Zhicong Lu, Yuxin Ma†*

Tags: Accessibility, Multi-agent, Human-AI collaboration, Computer vision.

Contribution: Ideation, project leading, 2/3 paper writing, 1/2 implementation. 2 citations.

SenseFusion: Facilitating Users' Cued Recall Debriefing in Retrospective Think-Aloud through VLM-based Multisensor Data Fusion

Under Review

Junze Li, Tianrun Qiu*, Xiaoyi Yu, Chengbo Zheng, Jiaxiong Hu, Zeyu Huang, Xiaojuan Ma†*

Tags: Sensor, Multi-modal LLM, Think-aloud.

Contribution: 1/2 Implementation, 1/2 paper writing, ideation participation.

Selected Projects

wnr: A Powerful Time Management App

Jan 2019 - Present

Individually Developed App

- An app that has received **1000+** stars on GitHub, that reduces visual stress by forcing the screen to lock, and that provides a large list of customizable preferences.

Shuli College Dormitory Selection System

Jul 2024 - Aug 2024

Co-led Dormitory and Roommate Selection System

- AI-powered system for the residential college that has helped **600+** students find their ideal roommates.

ParroTao: Agentic Running Copilot

Sep 2025 - Present

Participated as AI Product Manager and Front-end Leader

- App that provides agent-based physical fatigue monitoring, exercise plan recommendation, and highly flexible exercise record analysis. Will be online before the summer of 2026.

Course Projects and Theses

Nov 2022 - Present

Full Mark and Full Bonus in the Projects or Theses of 10 Classes:

- *Engineering*: (1) Software Engineering; (2) Computer Network; (3) Principles of Database System; (4) Computer Organization; (5) Digital Design.
- *Artificial Intelligence*: (1) Data Mining; (2) Artificial Intelligence; (3) Intro to Artificial Intelligence.
- *Programming*: (1) C/C++ Programming; (2) Intro to Programming in Java.

Working Experience

Digital Transformation Engineer

Aug 2022 - Oct 2023

Co-led *Lika Ribbon Anomaly Detection & Analysis System*

- Implemented an industrial system for ribbon defect detection and production statistics, with a single-unit cost of only \$40, and can increase high-quality rate by **10%**.
- Deployed in Hangzhou Lika Rigging Co., Ltd., with a patent granted.

Selected Awards

SUSTech School Motto Scholarship

Oct 2025

Rixin Prize (For Outstanding Technical Innovation and Impact)

Highest scholarship of SUSTech (Top 0.2% for Rixin Prize).

SUSTech Merit Student Scholarship (x2)

2023, 2024

First Class Scholarship (2023-24) (Top 5%), Second Class Scholarship (2022-23)

National University of Singapore School of Computing Summer Workshop

Jul 2024

Outstanding Project (A+) (Top 3)

National English Competition for College Students, China

Apr 2024

National Third Award

SUSTech Outstanding Freshman Scholarship

Dec 2022

First Class Scholarship (Top 5%)

Skills

Software Engineering

Java, C++, Python, Kotlin, Electron, SQL

Front-end Engineering

Vue, React, Node, CSS

Artificial Intelligence

Computer Vision, LLM, Fine-tuning, RAG, Data Mining

Hardware Engineering

Verilog, FPGA, Signal Processing, Embedded Computing

Designing

Photography, Video Post-processing, Graphic Design, 3D Modeling

Paper Writing

Actively engaged in the writing for two papers

Language Certificates

TOEFL iBT

Nov 2024

Scored 108/120: Reading 30, Listening 30, Speaking 22, Writing 26

GRE General Test

May 2025

Scored 329/340: Verbal 159, Quantitative 170, Writing 4.0

Selected Services

Shuli College Peer Mentors Association

Jul 2023 - Jun 2025

Peer Mentor, then Vice President

- Outstanding peer mentor who organized 10+ activities for undergraduate freshmen. Under my leadership, our residential college also became **40% more popular** as the first choice.

SUSTech Learning Center

Sep 2025 - Present

Academic Counselor

- As an academic counselor, I provide guidance to **3-5 undergraduates** each week on study plans, major selection, research area selection, and English learning.

CHI '26 Reviewer

Oct 2025

Reviewer for the top-tier conference CHI '26