

# 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**

Research Assistant

Nov 2023 - Present

Shenzhen, Guangdong, China

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

**HCI Initiative, HKUST**

Research Intern

Jun 2025 - Sep 2025

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