

# Tianrun Qiu

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*GitHub:* RoderickQiu \* *Pixabay:* r-q \* *Google Scholar:* Tianrun Qiu

## 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

## 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.

## Papers

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

2025

CHI '25 Full Paper

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

Tags: Creativity support tool; Generative AI-aided design.

Contribution: Full implementation, ideation participation. 6 citations.

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

2025

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

2025

Under Review

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

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

## Selected Projects

### wnr: A Timing Management App

Jan 2019 - Present

Individually Developed App

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

### Factory Ribbon Anomaly Detection & Analysis System

Aug 2022 - Aug 2023

Co-led Industrial Embedded AI Solution

- System for ribbon defect detection and production statistics, with a single-unit cost of only \$40, reaching industrial-grade accuracy, deployed in Hangzhou Lika Rigging Co., Ltd.

### Shuli College Dormitory Selection System

Jul 2024 - Aug 2024

Co-led Dormitory and Roommate Selection System

- System for the college from scratch that has helped **600+** students find their ideal roommates.

### ParroTao: AI 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 2026 Summer.

## Course Projects and Theses

*Nov 2022 - Present*

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

- Software Engineering; Data Mining; Computer Network; Artificial Intelligence; Principles of Database System; Computer Organization; Digital Design; C/C++ Programming; Intro to Programming in Java; Intro to Artificial Intelligence.

## Selected Awards

<b>SUSTech School Motto Scholarship</b>	<i>Oct 2025</i>
<i>Rixin Prize (For Outstanding Technical Innovation)</i>	
<i>Highest scholarship of SUSTech (Top 0.2% for Rixin Prize).</i>	
<b>SUSTech Merit Student Scholarship (x2)</b>	<i>2023, 2024</i>
<i>First Class Scholarship (2023-24) (Top 5%), Second Class Scholarship (2022-23)</i>	
<b>NUS School of Computing Summer Workshop</b>	<i>Jul 2024</i>
<i>Outstanding Project (A+)</i>	
<b>National English Competition for College Students</b>	<i>Apr 2024</i>
<i>National Third Award</i>	
<b>SUSTech Outstanding Freshman Scholarship</b>	<i>Dec 2022</i>
<i>First Class Scholarship (Top 5%)</i>	

## Technical Skills

<b>Software Engineering</b>	Java, C++, Electron, Python, Kotlin
<b>Frontend Engineering</b>	Vue, React, Node, CSS
<b>Artificial Intelligence</b>	PyTorch, LLM, Fine-tuning, RAG, Computer Vision
<b>Hardware Engineering</b>	Verilog, FPGA, Signal Processing, Embedded AI
<b>Paper Writing</b>	Actively engaged in the writing for two papers

## Language Certificates

<b>TOEFL iBT</b>	<i>Nov 2024</i>
<i>Scored 108/120</i>	
<i>Reading 30, Listening 30, Speaking 22, Writing 26</i>	
<b>GRE General Test</b>	<i>May 2025</i>
<i>Scored 329/340</i>	
<i>Verbal 159, Quantitative 170, Writing 4.0</i>	

## Selected Services

<b>Shuli College Peer Mentors Association</b>	<i>Jul 2023 - Jun 2025</i>
<i>Peer Mentor, then Vice President</i>	
• Outstanding Peer Mentor who organized 10+ activities for undergraduate freshmen. Under my leadership, our residential college also became 50% more popular as the first choice.	
<b>SUSTech Learning Center</b>	<i>Sep 2025 - Present</i>
<i>Academic Counselor</i>	
• As an academic counselor, I provide guidance to 3-4 undergraduate students each week on study plans, major selection, and English learning.	
<b>CHI '26 Reviewer</b>	<i>Oct 2025</i>
<i>Reviewer for the top-tier conference CHI '26</i>	