Junjie Qiu

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🎓 Education

Southern University of Science and Technology (SUSTech), Shenzhen, China   2021 – Present

Undergraduate student major in Data Science and Big Data Technology, expected June 2025

- GPA: 3.89/4.0 | Ranking: 4/50 | Supervised by Prof. Dr. Yifang Ma, STATDS, SUSTech

👥 Experience

Center for Computational Science and Engineering (CCSE). SUSTech   Mar. 2024 – Present

Student Assistant Engineer   Supervised by Dr. Jing Fan, CCSE, SUSTech

Brief introduction: In his work at the center, he completed **HPL and HPCG linpacks** on half the nodes of the Qiming and Taiyi (TOP500 NO.127, 2018) supercomputers, CCSE, SUSTech. He cooperated with the engineers of the center to assemble three computing nodes, and independently completed the installation and testing of two nodes. He has learned valuable lessons about **cluster operation and maintenance**.

- Development: OpenMP, CUDA

ASC24 Student Supercomputing Challenge. Shanghai, China   Nov. 2023 – April. 2024

Team Member   Group Competition Award (Paraseis) & 1st Prize

Brief introduction: During the preliminary and final rounds, he was responsible for the AI challenge and WannierTools (Mysterious Application) challenge. Since then, he has pursued **high-performance computing** as an extracurricular interest and focused on its application to AI.

- SUSTech News: SUSTech's Supercomputing Team claims first prize at 2024 ASC Student Supercomputer Challenge finals.
- Development: OpenMP, CUDA, Ray

Research Project of Science and Science. SUSTech   Aug. 2023 – Present

Contributor   Supervised by Prof. Yifang Ma & One paper under writing process

Brief introduction: This is a typical data analysis study. Combining orcid and openalex databases, we studied the impact of researchers' international migration on their work level. The content includes fixed effect regression, survival analysis and so on.

- Techniques: DID, Survival Analysis, Fixed Effect Regression

⚙ Skills

Knowledge background:

- Fundamental Knowledge of Mathematical Analysis, Linear Algebra, Probability, Statistics.
- Fundamental Knowledge of Machine Learning, Deep Learning.
- Amateur of high-performance computing.

The following are development tools that are familiar to him. He has either studied these tools systematically or have used the tools in engineering development.

- Programming Languages: Python $\approx$ C++ $\approx$ Java > SAS > R
- Platform: Linux $\approx$ Windows
- AI Development: Pytorch $\approx$ SQL > Jittor > Docker
- Big Data Development: Spark RDD, Spark Streaming, Spark MLlib, BeautifulSoup

♡ Honors and Awards

1st Place of Super Group Challenge (Paraseis), Group Competition Award, ASC24 Final	Apr. 2024
1st Prize, ASC24 Preliminary	Jan. 2024
2nd Prize, Guangdong CUMCM Mathematical Contest in Modeling	Jan. 2024
3rd Prize, Award on Merit Student Scholarship for Exceptional Performance, SUSTech	Sep. 2023
2nd Prize, Award on Merit Student Scholarship for Exceptional Performance, SUSTech	Sep. 2022
1st Place in Shude College, 2021 Orienteering Competition, SUSTech	Sep. 2021
Freshmen Scholarship, SUSTech	Dec, 2021

ⓘ Miscellaneous

- **Research Interests**: Open
- **Home Page**: https://haroqiu.zeabur.app/
- GitHub: https://github.com/Harold-QIU
- Other Interests: High-performance Computing, Cluster Operation and Maintenance, Jogging, Vlogging

Postscript

Thank you for reviewing my resume. I am pursuing PhD opportunities for

- **Career Advancement**: Gain an opportunity to advanced positions in academia, research institutions.
- **Personal Fulfillment**: For me, the process of earning a PhD is a significant life accomplishment.
- **Collaboration**: Attain an opportunity to collaborate with experts, peers, and mentors.
- **Networking**: Building a professional network can be beneficial throughout my career.