



# Qijia He

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## EDUCATION

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

*B.Sc. in Data Science and Big Data Technology, GPA: 3.89/4.0, Major GPA: 3.95/4.0* Aug. 2021 - Jun. 2025 (Expected)

- Awards:** 2<sup>nd</sup> Class Scholarship of Zhicheng College (Top 10%, 2022 & 2023), Elite Student in Dept. of STAT & DS
- Relevant Courses:** Computer Vision, Data Structures & Algorithm Analysis, Data Science Practice, Big Data Analysis Software & Application, Computer Programming, Multivariate Statistical Analysis, Mathematical Analysis

**Stony Brook University**

**Stony Brook, NY, USA**

*Exchange Student, GPA: 4.0/4.0*

Aug. 2023 - Dec. 2023

- Relevant Courses:** Data Analysis, Data Mining, Foundations of Machine Learning, Introduction to Visualization

## PROJECTS & INTERNSHIP

**Exploiting Offline Dataset to Improve Online Bandit Learning Efficiency with Relative Feedback** **Shenzhen, China**

*PI: Prof. Fang Kong, SUSTech*

Sep. 2024 – Apr. 2025

- Conducted a comprehensive literature review on the state-of-the-art bandit algorithms, focusing on estimating model parameters using offline stochastic data for online preference feedback by accommodating the LinUCB algorithm.
- Proposed several algorithmic approaches and conducted regret analysis, mathematically demonstrating that the offline dataset can effectively reduce regret within the proposed algorithm framework.
- Delivered a seminar presentation on stochastic linear bandits based on *Bandit Algorithms* [Tor Latimore et al, chapter 19].

**TAPALL**

**Shenzhen, China**

*Student Intern*

Jun. 2024 - Aug. 2024

- Scraped 20,000+ uncopyrighted videos from several websites (Pikwizard, Vecteezy, Mazwai, etc.) through Beautiful Soup using Python; designed a video filtering algorithm to select the videos with flat surface, camera in motion from the dataset for product demonstration in various environments, and classify them into several predetermined categories.
- Enabled the migration of two key business operations (3D Modeling and Digital Human) to the cloud by configuring a robust Python environment, replacing legacy on-premises systems.
- Developed a cloud scheduling system to implement the company's 3D Modelling and Digital Human solutions, reduced the back-end operational expenses by deploying the GPU instead of engaging in long-term leasing.

**Nature Index Periodicals: A Comparative Analysis of Impact and Innovation in Publications**

**Shenzhen, China**

*PI: Prof. Yifang Ma, SUSTech*

Jun. 2022 - Aug. 2023

- Collected 21,848 journal information from over 10 million papers from the Web of Science and a private database, featuring paper indexes like conventionality, hit5, hotspot, and novelty.
- Visualized KDE plots for over 1.5 million papers in NI and non-NI journals with similar journal impact factors in the same field, finding that NI journals do not exhibit an advantage in novelty.
- Analyzed the affiliations and publications in NI and non-NI journals, concluding that NI journals tend to favor works from institutions in the U.S. and Europe. Suggesting either a limitation in the Nature Index's ability to differentiate highly influential journals or an inherent bias in the selection practices of publishers.

## SKILLS & MISCELLANEOUS

**Programming:** Python, R, Java, C/C++, HTML/CSS/JavaScript, Hadoop & Spark

**Language:** Mandarin (native), English (proficient), Spanish (Basic)

**Social Work:**

- Assistant Instructor for SUSTech Youth Rock Climbing Course Jan. 2024
- Student Assistant in Student Affairs Center, SUSTech Jun. 2022 - Aug. 2022
- Contributed Over 80 Hours of Volunteer Service Across Diverse Activities and Organizations

**Interests:** Rock Climbing (SUSTech's Rock Climbing Team), Badminton (Zhicheng College's Badminton Team), Hiking.