

# HAOCHEN GU

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## EDUCATION

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**Imperial College London**, BS Mathematics with Statistics 2023 - 2026

- Year 1: 78.15%

**High School Affiliated to Nanjing Normal University**, International Baccalaureate DP 2020 - 2023

- 43/45      Global Top 3%

## SKILLS

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**Python, LaTeX**(proficient), **R**

## EXPERIENCES

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**China Securities - Investment Banking Department** 2024.07.01 - 2024.08.31

- Assist in preparing the bidding documents and prospectus for the bond-issuing company.
- Assist in organizing the financial data of the bond-issuing company.

## RESEARCH

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**Analysis of the distribution of combined random variables using Fourier transform and characteristics functions:** For my high school extended essay, I employed Fourier transforms to create a mathematical model assessing the risk-return relationship of a portfolio comprising Apple and Johnson & Johnson stocks. This effort was recognized with an 'A' grade, the highest evaluation from the International Baccalaureate Organization (IBO).

**Spatio-Temporal Analysis of Drug Prime Nearby, Using Kernel Density Estimation:** Based on kernel density estimation, a spatiotemporal point process model of drug crime distribution within the corresponding range was constructed, successfully identifying the peak periods and concentrated areas of drug crime in London.

## AWARDS

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- WorldQuant Challenge GOLD LEVEL

## OTHERS

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**Language :**    Mandarin - Mother Tongue      English - Academic Language

### Online Courses:

- Coursera - Stanford University & DeepLearning.AI Machine Learning Specialization
- Udemy - Data Science in Python: Data Prep & EDA

### Personal Blog:

[guhaochen.uk](http://guhaochen.uk)