

Choong Zheng Yang (Singaporean)

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Quant researcher passionate about building research tools and extracting value from financial data.

Professional Experience

Cubist Systematic Strategies (Point72)

Singapore

Research Analyst (Statistical Arbitrage)

June 2024 - May 2025

- Performed ETL and analysis of large alternative equity datasets in Python and SQL for alpha signal development.
- Implemented data validation and quality checks to ensure robustness of signal inputs.
- Onboarded, maintained, and documented proprietary datasets to streamline and enable cross-team research.
- Contributed to internal research platform by extending core Python libraries to improve workflow efficiency.

Astignes Capital Asia

Singapore

Quantitative Development Intern

May 2022 - Aug 2022

- Designed and implemented a Python-based risk regime indicator using HMM and PCA for real-time analysis.
- Developed and optimised genetic algorithms ($\sim 10^{12}$ configurations) for model calibration.
- Built and deployed Plotly dashboards to improve internal visibility of data-driven signals for traders and risk team.

Education

Nanyang Technological University Singapore

Singapore

Physics and Applied Physics, School of Physical and Mathematical Sciences

Aug 2020 - May 2024

- Bachelor of Science, Honours with Highest Distinction (CGPA 4.92/5.00)
- CN Yang Scholars Programme, Dean's List for Academic Years 2020/2021 and 2023/2024

Relevant Modules: Data Science and Artificial Intelligence, Linear Algebra, Multivariable Calculus

University of Edinburgh

United Kingdom

Semester Exchange

Jan 2023 - May 2023

Relevant Modules: Financial Mathematics, Computational Physics, Statistical Mechanics

Research Projects

Final Year Project, NTU

Singapore

Investigating Neutrino Masses in Supersymmetric GUT Extensions of the Standard Model Jun 2023 - Apr 2024

- Conducted in-depth theoretical research into neutrino mass generation and the neutrino mass mixing matrix.
- Applied group theory to explicitly calculate irreducible representations of the SU(5) group.

Earth Observatory of Singapore, NTU

Singapore

Research Assistant — github.com/zhengyang-c/cy1400-eqt

Dec 2020 - May 2022

- Automated end-to-end data pipelines in Python to process seismic data (100 TB) on a Gekko cluster.
- Enhanced signal detection accuracy from 70% to 95% using Monte Carlo and bootstrap techniques.

Leadership Experiences and CCAs

CN Yang Scholars' Club, NTU

Singapore

Peer Mentoring Programme; Press & Publications Subcommittee Director

Aug 2020 - Aug 2023

- Mentored 20+ first-year undergraduates in accelerated Maths and Physics, improving subject comprehension.
- Led and coordinated a 4-member media team for 16 events, including Orientation and Convocation Dinner.

Relevant Skills

Finance: Completed CFA Level 1 exam. Equities, Fixed Income, Alternative Datasets.

Programming: Python (pandas, numpy, matplotlib), SQL, Git, Linux bash, Excel VBA

Languages: Proficient in English and Chinese