

QICHEN DONG

(+44) 742-250-7895 ◇ qichen.dong@cern.ch ◇ linkedin.com/in/qichendong

207 Chapel Street, Salford, UK, M3 5PH

EDUCATION

University of Manchester

PhD Student in High Energy Physics

September 2020 - September 2024

Manchester, UK

- Expected September 2024

University of Manchester

Master of Physics (First Class Honours)

September 2018 - June 2020

Manchester, UK

- Overall GPA: 74.4
- Ranked 30th out of 150 students in the final year.

Shandong University

Bachelor of Science in Physics

September 2015 - June 2018

Jinan, CN

- Overall GPA: 83.3

WORK EXPERIENCE

Qube Research and Technology

Intern Quantitative Researcher

August 2022 - February 2023

London, UK

- Main contributor to the 10-Q and 10-K financial reports similarity analysis using NLP techniques.
- Conducted a similar project on sentiment analysis of Japanese financial reports.
- Designed and developed novel algorithms to identify abnormal data in the financial time-series.
- Developed and validated a price correction model for corporate events for equities.
- Collaborated with a team to develop and optimise database infrastructure for real-time financial market data, enhancing data retrieval and storage efficiency.

RESEARCH EXPERIENCE

University of Manchester

PhD Project

Sep 2020 - September 2024

Manchester, UK

- Project supervised by Prof. Terry Wyatt.
- Harnessing the power of AI to analyse massive datasets generated by the ATLAS experiments.
- Proposed and developed improved methods to identify the pair production of the heaviest known leptons.
- Extracting meaningful insights from the vast volumes of data produced in the detector, helping to unlock the mysteries of the Higgs boson.
- At least two papers are scheduled to be published for the benefit of the ATLAS collaboration, in which I will be the first author.

ATLAS experiment, CERN

Developer and Maintainer

April 2022 - August 2022

Geneva, CH

- Long-term-attached PhD student.
- Developer and reviewer of the ATLAS offline software.
- Senior shifter in the ATLAS software merge-requests review team.

University of Manchester

Master Project

September 2019 - June 2020

Manchester, UK

- Project supervised by Prof. Andrew Pilkington. Achieved 81%.
- Searching for extra source of CP violation which contributes to the large matter anti-matter asymmetry in the universe.
- Results presented to the ATLAS Collaboration.

ADDITIONAL EXPERIENCE

University of Manchester

Teaching Assistant

Sep 2020 - Present

Manchester, UK

- Demonstrating the C++ / Python laboratories for year-2 and year-3 undergraduate physics students.
- Sharing fundamental programming skills with the next-gen programmers.

Remote area in Sichuan

Volunteer Primary School Teacher

June 2016 - September 2017

Sichuan, CN

- Helping primary school students who live in remote area in Sichuan province during summer break.
- The team helped hundreds of children.
- Local tobacco farming industry which can potentially reduce poverty in local area was investigated.

Shandong University

Lead of Student Union

September 2015 - June 2017

Jinan, CN

- Responsible for organising voluntary works hosted by the university.
- Managing a team of 20 SU undergraduate representatives.

SKILLS AND INTERESTS

Programming

Proficient in programming with C/C++ and Python

Teamwork

Strong communication skill in highly collaborative environments

Languages

Chinese (Native), English (Professional)

Interests

Graphic design, Accelerated / Distributed computing