

QICHEN DONG

<https://www.linkedin.com/in/qichendong/>

1803 Neon House, 207 Chapel Street, Salford, UK, M3 5PH

WORKING EXPERIENCE

Qube Research and Technology

August 2022 - February 2023

Intern Quantitative Technologist

London, UK

- Developing and optimized database infrastructure for real-time financial market data, enhancing data retrieval and storage efficiency.
- Collaborated with a team to address critical data-related challenges in the finance industry leveraging AI.

EDUCATION

University of Manchester

September 2020 - Present

PhD Student in High Energy Physics

Manchester, UK

- Expected December 2024
- Funded by STFC Centres of Doctoral Training in data intensive science

University of Manchester

September 2018 - June 2020

Master of Physics

Manchester, UK

- Overall GPA: 71.4

Shandong University

September 2015 - June 2018

Bachelor of Science in Physics

Jinan, CN

- Overall GPA: 83.3

RESEARCH EXPERIENCE

ATLAS experiment, CERN

Sep 2020 - present

PhD project

Manchester, UK

- Project supervised by Prof. Terry Wyatt.
- Harnessing the power of AI to analyse massive datasets generated by the ATLAS experiments.
- Developing an improved methods to identify the pair production of the heaviest 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

April 2022 - August 2022

Developer and Maintainer

Geneva, CH

- Long term attached PhD student.
- Developer of the ATLAS off-line reconstruction software.
- Senior shifter in the ATLAS software merge-request review team.

ATLAS experiment, CERN

September 2019 - June 2020

Phys Project

Geneva, CH

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

ADDITIONAL EXPERIENCE

The 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

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|--------------------|---|
| Programming | Proficient in programming with C/C++ and Python |
| Teamwork | Strong communication skill in highly collaborative environments |
| Languages | Chinese (Native), English (Professional) |
| Interests | Badminton, Graphic design, Accelerated / Distributed computing |