

# QICHEN DONG

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

## WORKING EXPERIENCE

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### **Qube Research and Technology**

August 2022 - February 2023

*Intern Quantitative Researcher*

*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

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### **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

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### **University of Manchester**

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.

### **University of Manchester**

September 2019 - June 2020

*MPhys Project*

*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 ATLAS Collaboration.

## ADDITIONAL EXPERIENCE

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### 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