

Christopher Docherty



07579792730



github.com/ChristopherDocherty



christopher.docherty@gmail.com

Programming —

Intermediate:

Python (NumPy, Plotly), C++, HTML, CSS, Git

Beginner:

Tensorflow, Django, Pandas, Javascript, React

Work Experience —

Ferring Controlled Therapeutics

Responsibilities included processing audits for an internal system.

April 2018

Online Courses —

Coursera Machine Learning

Stanford University

Covers the standard algorithms for supervised and unsupervised learning including best practices.

Completed 03/2019

Hobbies —

Badminton

Active player currently receiving coaching from a former Scottish professional player.

Guitar

Self-taught and played guitar for 9 years and have performed in school shows as part of both the guitar and ukulele ensembles.

Language Learning

Have been self learning Japanese for three years and have taken extra credit courses for Mandarin in university.

Education

University of Glasgow (Predicted First-Class Honours) 2017-2022

MSci. Theoretical Physics. Course included Chemistry and Maths in 1st year and Maths in 2nd year.

Chinese University of Hong Kong

2019

On exchange program for 3 months until the semester was terminated early due to protests. Completed honours computational physics course remotely receiving an A- grade.

Hutchesons' Grammar School

2011-2017

4 A's in Advanced Higher taking Physics, Mathematics, Mathematics of Mechanics and Chemistry. 6 A's in Highers taking Physics, Maths, Chemistry, Computing, Biology and English. Elected prefect in final year.

Achievements

Kerr Bursary

A £1000 bursary awarded to one student in the cohort by The University of Glasgow for outstanding performance in first year Chemistry.

Cambridge Chemistry Challenge

For being one of the top 55 students across the UK, awarded a Roentgenium prize. Subsequently attended a chemistry camp at St Catherine's College designed to expose the winning school students to Cambridge University's Chemistry course.

British Physics Olympiad

Gold award in both of the Oxford run Physics Challenge and AS Competition, each given to the top 100 school students across the UK.

British Biology Olympiad

Gold award in the Royal Society of Biology run competition and qualification for the second round, given to the best 150 students across the UK. Achieved when taking the test a year early.

Scottish Bridge

Represented Scotland in the Peggy Bayer tournament for U21's after having won the Scottish Schools bridge event for two consecutive years.

Experience

Bridge Playing Program

C++

Using the Monte Carlo Tree Search algorithm, an A.I. player was built for the game of bridge. Competitive performance was shown on simpler hands however more game specific tactics must be added to play difficult hands.

Magnesium Oxide Crystal Model

Python

Applying solid state physics to model an MgO crystal in Python by creating methods for periodic boundary conditions, lattice energy calculation and minimisation of lattice energy through conjugate gradient- and steepest descent algorithms.

NASA Space Camp

Graduate of the Honeywell Leadership Challenge Academy, a week long camp held in the U.S. Space & Rockets Center, Huntsville, AL. The camp involved NASA related group tasks and leadership workshops.

CERN Beamline Competition

Led a team in the CERN Beamline competition for which students were tasked with designing an experiment that could be carried out using a particle accelerator. The project required a written proposal and explanation of the physics involved.