

Carlos Perello

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EDUCATION

IMPERIAL COLLEGE LONDON

MSci in Mathematics w/ Year Abroad

London, UK
Sep 2020 - Current

- Transferred courses from Physics to Mathematics and achieving **over an 80%** throughout the first term.
- Learning German to go abroad to **ETH Zürich** in Switzerland, another **top 10 university**.
- **Year 1 academic representative**: Talking to staff and gathering feedback to ensure the best degree experience

CertHE in Physics w/ Theoretical Physics 2:1 degree

Oct 2019 - Jul 2020

Coursework: Big Data Visualisation, Neutrino Beam Collision Simulations, Report Writing

Summer Project: Handling and Visualising Big Data sets using Choropleth maps, **1st class**

- Examined and prepared a dataset containing **over 14,000 data points** about London crime
- Plotted **interactive choropleth maps** of this and other similar datasets

HARVARD SUMMER SCHOOL

Cambridge, MA, USA
Jun 2018

Introduction to Astrophysics 2 week course led by Prof. Idan Ginsburg, part of Pre-College Program

Coursework: Planetary Observation, Neutron Star Research, Telescope Image Processing

KING'S COLLEGE, SOTO DE VIÑUELAS

Madrid, Spain
Sep 2011 - Jun 2019

High School Diploma

A Levels: Physics (A*), Mathematics (A*), Further Mathematics (A*), Spanish (A*), Chemistry (B)

SATs: 1530 overall (Top 1%), 770 Physics Subject Test (Top 1%), 800 Maths II Subject Test (Max)

UNIVERSIDAD PONTIFICIA COMILLAS ICAI

Madrid, Spain
Summer 2013 - 2017

Summer Courses Summer program designed to teach STEM to students under 16.

Courses taken: Arduino and 3D Printing (2013), HTML and Video game programming (2015),
Electronic engineering (2017)

PROFESSIONAL EXPERIENCE

IMPERIAL COLLEGE LONDON

Student Researcher

London, UK
Oct 2020 - Now

- Researching side to side with professionals from **Imperial and Oxford's joint StatML CDT** to collect data used by multiple governments in tracking the spread of Covid-19
- Directly responsible for **scraping US statal data** and **debugging the data pipeline**, which can be found [here](#)

MYMINIFACTORY

Data Analysis and Intelligence Intern

London, UK
Jun 2020 - Sep 2020

- Improved market awareness by programming a **Python Web Scraper** from scratch
- Stored and retrieved data using **SQL** and presented it using the **Pandas, Seaborn, and Matplotlib** Python libraries

SKILLS

- **Languages**: English (Native), Spanish (Native), Portuguese (Native), French (Fluent), Japanese (Conversational), German (Beginner)
- **Programming Languages**: Python (Competent), C++(Intermediate), TypeScript (Beginner), SQL (Advanced), R (Intermediate)
- **Other Technologies**: Object-Oriented Programming, HTML5, CSS3, Metabase, Pandas, Seaborn, Selenium, Git, BS4, JSON
- **Soft Skills**: Problem Solving, Teamwork, Leadership, Report Writing, Communication, Analytical thinking

MERITS

SPANISH MATHEMATICAL OLYMPIAD

Mar 2019

Real Sociedad Matemática Española (RSME)

- Qualified for the regional round of the Spanish Mathematical Olympiad
- Placed within the top 60 best mathematicians in Madrid out of more than 10,000 competitors

NEXALIA AWARD

Jul 2020

King's College, Soto de Viñuelas

- Prize awarded to one pupil at King's College Madrid who is considered to excel by all of the teachers

SIR ROGER FRY SCHOLARSHIP

Aug 2016 - Jun 2019

King's College, Soto de Viñuelas

- Earned an academic scholarship from King's College Madrid for outstanding IGCSE results