

# Theo A. O. Rashid

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## Education & Qualifications

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### **Imperial College London, Epidemiology & Biostatistics PhD (2019 – present)**

#### **Funded by the President's Scholarship**

Investigating health inequalities in London using Bayesian spatiotemporal models and machine learning methods, with Majid Ezzati, James Bennett, Seth Flaxman and Mireille Toledano. Part of the Pathways to Equitable Healthy Cities project and the Global Environmental Health group.

### **Imperial College London, Physics with Theoretical Physics MSci & ARCS (2015 – 19)**

#### **Grade: 1<sup>st</sup>**

The mathematical foundations of my degree were gained through extensive quantum mechanics, (geophysical) fluid dynamics, statistical physics and analysis. In my final year, I applied the techniques I learnt to atmospheric physics, understanding the analytical models which underpin current forecasting technologies. During my studies, I founded an EdTech company, ProgBlocks, which develops tangible educational tools to help children learn to code.

### **Leicester Grammar School (2008 – 15)**

**A Levels:** Mathematics (A\*), Further Mathematics (A\*), Physics (A\*), Chemistry (A\*).

**GCSEs:** 10 A\*s including English.

## Work Experience

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### **Business Analyst, Deecon Consulting (Summer 2019)**

Internship in strategic procurement, working in the telecommunications, construction and energy sectors. I developed the back-end for a data consolidation tool, prospected clients before business development meetings and implemented new frameworks to streamline clients' procurement processes.

### **Researcher, Imperial College London (July – September 2017 and 2018)**

Summer research placements in the SPAT (Space and Atmospheric Physics) group in the Department of Physics, with Ralf Toumi and Shuai Wang. I developed a statistical forecasting model to predict the intensity of hurricanes within a changing climate scenario, correlating the historical trends to atmospheric and oceanographic data and satellite imagery to identify the physical processes taking place.

### **Nuffield Research Placement, University of Leicester (July – August 2014)**

Sponsored research project in the Spectroscopy and Dynamics group in the Department of Chemistry, with Corey Evans. I established ability in computer-based simulations of quantum processes, performing optimizations of molecular structures, in particular modelling the solvation of lithium halides in water.

## Interests, Skills and Achievements

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### **Languages**

I am learning French at a C1/B2 level.

### **Computational**

I am highly proficient in python, R, Git and the command line. I also have basic knowledge of SQL, C++ and HTML.

I am comfortable using Microsoft Word, PowerPoint and Excel packages, as well as LaTeX.

I am proficient in CAD and using 3-D printing software.

### **Music and Sport**

I achieved Trinity Guildhall Grade 8 with distinction on both viola and saxophone, playing in various groups. I represent my university 1<sup>st</sup> XI in both cricket and football.