

# Daniel Nieuwerf

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## Education

### **University of Oxford, Pembroke College (2016 - 2019)**

**BA Mathematics 2:2** mostly applied courses with 2:1s in four examinations

First year Matlab coursework 1st (88%)

### **Holy Family Catholic School, London (2009- 2016)**

**A-Levels:** Further Maths (A\*), Maths (A\*), Physics (A\*), Additional Further Maths (B)

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## Experience

### **Coding experience:**

- Proficient in C++ and Python
- Strong computer science fundamentals: algorithms and data structures
- Completed 40 hours Udemy course C++ From Beginner to Beyond
- Completed various Machine Learning and Deep Learning courses on Coursera
- Web development: Html5, CSS and Javascript (Coursera course)
- Some familiarity with Java, SQL, C# and R

### **Notable Personal Projects:**

- Fully functioning chess application with my own implementation of a chess engine capable of defeating humans
- Tower Defense game with infinitely many waves of enemies

### **Rokos Research Internship- July-September 2018 (Mathematical Institute, Oxford)**

- Researched unexplored systems of population dynamics and successfully arrived at conclusions on the various enquiries we had
- Solved problems using Matlab and produced bifurcation diagrams

### **Private Tutor- 2017- 2019**

- Adapted teaching style to clients and had patience with struggling students
- Helped all my students raise their grades

### **Undergraduate mentor on Summer schools in 2017, 2018 and 2019**

- Pembroke College “Access Week” and “Problem-solving MATters”
  - Led sessions for groups of students and was responsible for their safeguarding
  - Marked and provided feedback on the student’s assignments
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## Extra Curricular Activities

- **Chess** - Oxford University 2nd team. Elo 1900 on chess.com (top 2%)
- **Brazilian Jiu-jitsu** - Multiple accolades including English champion