Daniel Nieuwerf

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Education:

University of Oxford (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:
- 3A*s in Maths, Further Maths and Physics. B in Additional Further Maths

Experience:

Coding experience:
- Used Matlab throughout my degree
- Proficient in C++ and Python.
- Strong computer science fundamentals: algorithms and data structures
- Completed 40 hours Udemy lecture course C++ From Beginner to Beyond
- Machine Learning: Applied Machine Learning in Python (Coursera course)
- Database management: MySQL, PostgreSQL
- Some familiarity with Java, 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.
- Used Matlab to solve problems and produce bifurcation diagrams of these high-dimensional systems.

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.

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