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174 Crompton Way
Bolton, BL2 2SA

Education

Imperial College London

September 2013–June 2017

MSci. Hons. Physics (Expected 2:1)—4th Year Undergraduate
Computational Physics, Physics of the Universe, Cosmology, Light and Matter,
Group Theory, General Relativity, Quantum Field Theory, Advanced Classical Me-
chanics, Nuclear and Particle Physics, Mathematical Methods.

Bolton School Boys' Division

2006–2013

A-levels: Physics (A*), Maths (A*), Further Maths (A*), Chemistry (A)
GCSE's: 6 A*s, 4 As

Relevant Experience

Undergraduate Research Opportunities Programme July 2016–September 2016 Imperial College London

- 9-week, full-time research placement.
- Developed homoepitaxial growth model of GaAs with deposition and diffusion events using a Kinetic Monte Carlo algorithm.
- Extended model with the addition of another molecular species with differing properties.
- Analysed number of adatoms, island size and differences in crystal growth.

Computational Projects, Imperial College London

October 2013–Present

- MSci project: Developed cellular automaton model of non-linear, electrical wave dynamics in the heart which spontaneously give rise to Atrial Fibrillation.
- Modelled silver spheres in resin to find the Critical threshold for conductivity.
- Optimised the design of a pion accelerator and detector to measure branching ratios.
- Investigated the properties and dynamics of solitons under the Kortweg De-Vries Equation.
- Simulated double pendula and investigated dynamics under various finite difference methods.

Achievements

- EPSRC bursary award for Undergraduate Research Opportunities Programme
- Gold Crest Award for completion of Engineering Education Scheme.
- Mathematics Prize for best in A-levels
- Trinity Guildhall Classical Guitar Grades: 1, 2, 5 and 7
- Vipassana 10-Day Meditation Course completion

Skills

Programming Languages: Python, AVR Assembler.

Software: Origin, L^AT_EX, LTSpice, Microsoft Office, Ableton.

Languages: Japanese (Level 1), Russian (GCSE)

Interests

- Weightlifting: Attend the gym 4 times a week
- Climbing: Member of Imperial College Mountaineering Club
- Music Production: Member of Imperial College Music Technology
- Philosophy: Member of Imperial College Socratic Society
- Meditation

References

Available on request