

Josh Wainwright

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Qualifications

Current: University of Birmingham – Physics and Astronomy BSc (expected 2:1)

Third year modules include Computational Modelling of Physical Systems, Digital Image Processing, Physics Teaching in Schools, Formation and Evolution of Galaxies and Atomic Physics

Degree also included practical laboratory work, computing and programming, teamwork and presentation and communication skills.

Major group project included in 3rd year for which I acted as editor. Involved extensive research on a previously unknown subject, original calculations and investigations relating to the topic and a presentation and detailed final report produced by the team as a whole

2012: Physics BSc – Second Year

Gained upper 2nd (2:1) class degree level in second year of study. Second year modules included Nuclear Physics, Quantum and Classical Mechanics, Advanced Mathematics, Electromagnetism and Statistical Physics

2012: Physics BSc – First Year

Gained 1st class degree level in first year of study. Modules included Optics and Waves, Quantum and Classical mechanics, Mathematics, Electronics and Electric circuits and Temperature and Material Properties.

2010: The Sandon School

A-Levels

Physics A; Mathematics A; Chemistry B.

AS-Levels

Further Mathematics A; Biology A.

GCSEs

Seven grade A* (including Mathematics, Physics, Chemistry and English literature); four grade A (including English Language and Biology) and one grade B.

2012: ITC Emergency First Aid at Work and Outdoor Incident Management

Completed two day first aid course which involved minor and major injuries, incident management and emergency CPR for both the work environment and more difficult outdoor situations.

Employment

Current – University Representative Tour Guide

Involved giving tours to prospective students to university, involving leading a group on a tour of the campus, answering questions that they might have and spending time talking to both the students and parents concerning living and studying at university.

2012 – BAESystems Detica

Worked with an experienced web development team for a large business client for the summer. I developed a program to streamline and increase the efficiency of web development within the team.

2007 – 2010 – Shop Assistant

Worked in a golf equipment and accessories shop and driving range; participating in the giving of advice and the selling of golf equipment and accessories to the public. This involved talking to and recommending equipment and the safe and methodical transactions of large sums of money, as well as the general keeping of the shop and seeing to customers' needs.

2007, 2011 – Work Experience

Worked at a local primary school in 2007 and secondary school in 2011 assisting staff and teaching pupils in a number of age grouped classes. Worked closely with a number of staff members demonstrating ability to cooperate easily and effectively with experienced workers and to contribute to the running of a busy environment.

2006 – 2010 – Volunteering

Helping out at holiday youth club, working with large numbers of children of various ages and assisting in organising and running different activities over a number of days. Included interacting with children and parents and colleagues who were also helping in similar capacities, and dealing with technical equipment used throughout the sessions (eg video camera, audio visual equipment and lighting rigs).

2007 – 2008 – School Prefect

Undertook numerous responsibilities, including showing prospective students and parents around the school, and helping teachers in authoritative roles involving large numbers of students, demonstrating clear and effective leadership and communication skills.

Interests

Computing

Am an advanced and interested user of a full range of operating systems, with a particular understanding and interest with Linux, and confident user of the LATEX typesetting language. I have experience with C++, Java, FLTK, HTML, Bash and Git. Am confident with all office applications and have experience with MatLab, GNUPlot and various scientific computing libraries, eg GSL, Root(CERN).

Judo

Trained for a number of years achieving an upper brown belt (one before black) and competed on several occasions in regional and inter-regional competitions. Also

assisted other judokas, both younger and older of varying grades and abilities, with teaching and coaching as well as leading warm up and training sessions.

Hockey

Helped with the running of a hockey club at school for younger years.

Swimming

Achieved Bronze Medallion Life Saving Certificate (incl. CPR).

Music

Taught myself piano and guitar. I am now at the standard where I can confidently play the piano with others playing a range of different instruments in the church service.

BSL

Currently taking a British Sign Language (BSL) course in my spare time as this is something that has interested me for some time and as I did not pursue languages academically is an area of experience I would like to broaden.

Walking

I am also currently taking a walking qualification in summer mountain walk leading (ML). This involves leading and overseeing walks at high altitudes in all weathers, being responsible for a group of mixed age walkers and having sufficient first aid qualifications to cope with any negative situation that might occur.

Other Information

Driving Licence

Full, Clean UK Licence.

References

References

Academic and personal references are available upon request