

GRACE COX

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EDUCATION

Oct 2008
to
Jul 2011 **Imperial College London**
BSc Geophysics (First Class Honours)

Achieved first class marks during all years of study. Modules included:

- Applied geophysics (100%)
- Geodesy and geomagnetism (81%)
- Mathematical methods I (94%)
- Mathematical methods II (82%)
- Mathematical methods III (78%)
- Mechanics (98%)
- Seismic techniques (81%)

Sep 2005
to
Jun 2007 **Thomas Rotherham College**
Rotherham
GCE A Levels

Mathematics, Physics and French all at grade A

Sep 2000
to
Jul 2005 **Aston Comprehensive School**
Sheffield
GCSEs

9 GCSEs including Mathematics, English and Science, grades A*-A

AWARDS

Governors' prize for Geology - awarded to the top BSc student (2011)
Royal Astronomical Society bursary (2011)
W H Bacon prize for Physics (2007)
Thomas Rotherham College Foundation Scholarship (2007)
Nuffield Foundation Science Bursary (2006)

WORK EXPERIENCE

Jul 2011
to
Sep 2011 **Summer research student**
Mullard Space Science Laboratory
Surrey

Plasma interaction with Saturn's moons

Sep 2010
to
Jan 2011 **Semester abroad**
Ecole et Observatoire des Sciences de la Terre
Strasbourg, France

Studied in the engineering stream at EOST, a French grande école specialising in geophysics. Modules studied included mathematics, physics of the Earth, continuum mechanics, computing and business economics.

Jun 2010
to
Aug 2010 **Undergraduate Research Opportunities Programme**
Advanced Modelling and Computation Group (AMCG), Imperial College London

Completed an undergraduate research placement in the Department of Earth Science and Engineering under the supervision of Dr Gareth Collins. The aim of the project was to validate iSALE, a shock physics code developed for modelling impact cratering. Used iSALE to simulate explosion cratering processes and devised methods to compare the resulting data with data obtained from explosion cratering field experiments.

Learnt independent research skills and basic programming in Python

*Oct 2009
to
Jun 2010*

Assistant Divisional Officer

*Royal Naval Reserve (London University Royal Naval Unit)
London*

Responsible for ensuring that all delegated tasks were performed within strict deadlines and to a consistently high standard

Organised a variety of formal and informal social activities such as Mess Dinners and charity events
Mentored others to obtain the best from them, even in the most challenging conditions, through effective communication and leading by example

Took part in local military ceremonial occasions such as the annual Remembrance Sunday Parade

*Oct 2007
to
Sep 2009*

Midshipman

*Royal Naval Reserve (London University Royal Naval Unit)
London*

Participated in seamanship training both ashore and at sea, leading to the ability to acclimatise to fast paced and changing environments

Further developed transferrable skills such as problem solving and public speaking through Practical Leadership Tasks and ad hoc presentations

Gained valuable experience of being a constructive team member and working with others in order to achieve common goals and objectives

*Jul 2003
to
Sep 2007*

Assistant Karate Instructor

*Rotherham Martial Arts Centre
Rotherham*

Taught traditional and sport karate at all levels to a diverse group of adults and children

Coached and mentored students in preparation for competitions

Ensured smooth operation of the club in the absence of senior instructors

Trained in basic first aid

PRE-UNIVERSITY EXPERIENCE

UKSEDS conference at the University of Leicester (2006)

Headstart summer school at the University of Glamorgan (2006): Astrobiology

Nuffield Foundation Bursary placement at the Sheffield Centre for Advanced Magnetic Materials and Devices (2006): investigated the resistivity and magnetoresistance of various ferromagnetic materials using both Hall and van der Pauw method

Sutton Trust summer school at the University of Nottingham (2006): Physics and Engineering stream

SOFTWARE/SYSTEM SKILLS

Good command of Microsoft Office tools (Word, Excel, Powerpoint and Access)

Basic knowledge of graphic design applications (Adobe Illustrator and Photoshop)

Proficient with Windows and Mac operating environments

Basic knowledge of Linux operating environment

LANGUAGE SKILLS

English: native speaker

French: proficient (level C1 according to the Common European Framework of Reference for Languages)

Spanish: basic knowledge