

# JAMES CAMPBELL

3 Hillside Close, Helsby  
Cheshire, UK, WA6 9LB  
+44 7876 075714  
james.campbell@tanti.org.uk

## PERSONAL PROFILE/OBJECTIVE

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I am an undergraduate with a mature outlook seeking a year long industrial placement in Mathematics and/or Computing. I have a very logical mind and demonstrated my ability to understand complex ideas quickly whilst working on a research project at Cardiff University this summer.

## EXPERIENCE

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- SUMMER 2014**      **Building Game Theoretical Software in a Research Environment**  
I was employed by Cardiff University Department of Mathematics, working for Dr. Vincent Knight to lead the department's contribution to the open source mathematics package, Sage. I was responsible for the implementation of a variety of Game Theoretic algorithms that will be included in a future release of Sage. Areas of Game Theory handled included: Normal Form Games, Co-operative Games and Matching Games. This employment developed my teamwork and communication skills by providing experience of working within a research environment.
- SEPT 2010 - PRESENT**      **Referee with the Rugby Football Union**  
Whilst most teenagers might have a Saturday job, I began refereeing rugby union at the age of 15. New referees start at level 15 and within 3 years, I had been promoted to level 6 - the highest regional level and only one below the point where I could referee national level games. The experience of taking charge of 30 grown men in an aggressive and physical sport has given me confidence in my ability to remain calm in stressful situations.
- SEPT 2009 - JUL 2013**      **Young Leader at 1<sup>st</sup> Helsby Scouts**  
I developed communication skills whilst helping to supervise and teach children aged 6 - 10 years. I was regularly assigned to lead small group activities which improved my organisation and leadership skills.

## EDUCATION

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- CURRENT**      **BSc Mathematics, Statistics and Operational Research**  
Cardiff University, Department of Mathematics  
Expected May 2017
- SEPT 2011 - JUNE 2013**      **St. Nicholas Catholic High School**  
A-Levels: Maths - A\*, Further Maths - A, Physics - A  
AS-Levels: Biology - B, Chemistry - B
- SEPT 2006 - JUNE 2011**      **St. Nicholas Catholic High School**  
GCSEs: Maths - A\*, Additional Maths - A\*, Physics - A\*, English Language - A\*, English Literature - A\*, Biology - A\*, Chemistry - A\*, French - A, History - A, RE - A, Art - B.

## SCHOLARSHIPS AND CERTIFICATES

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- SEPT. 2013**      Department of Mathematics Scholarship - awarded to the top 10 students who achieved the highest 'A' level grades of that year's intake.

## PROGRAMMING SKILLS

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I have a thorough working knowledge of Python and Git, both of which I have used to contribute to a peer reviewed open source project. I am able to create professional documents and presentations using LaTeX and I have experience with Django, Python's web framework, which I used to build a web application for a University project.

## ACHEIVMENTS AND INTERESTS

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I have been involved in Scouting from the age of 8, playing a large role in the organisation both as member and a leader. Recently, I was appointed a group-wide, adult leader position which will allow me to continue the work I have been doing whenever I am home from University.

I have played Rugby Union from the age of 5, reaching County standard and playing for the Welsh Exiles before injury prevented me from carrying on. This gave me a lot of experience at working within a team, both as a captian and a member.

On starting at Cardif University, I decided to take up a new sport in order to maintain my level of fitness. I chose Ultimate Frisbee as it is a team sport, is physically demanding but is non-contact and so reduces the risk of injury which might compromise my rugby refereeing. During the course of the year, I've been promoted to the second team and have represented my univeristy at several tournaments.

In my spare time I relax by playing the piano, having achieved Grade 5 some years ago. I hold a full, clean UK driving licence.

## FIRST YEAR

### Grades

EXAM	CREDIT	%
Analysis I	10	78
Dynamical Systems and Chaos	10	80
Calculus	10	71
Algebra I	10	62
Probability Theory	10	81
Algebra II	10	?
Analysis II	10	?
Elementry Differential Equations	10	?
Statistical Inference	10	?
Elementry Number Theory	10	?
Computing for Mathematics	20	?
	AVERAGE	?