

ROBIN WILSON

Curriculum Vitae

Home:

1 Handbury Rd
Malvern Link
Worcestershire
WR14 1NN
(01684) 561680

University:

18 Roselands Gardens
Highfield
Southampton
SO17 1QG
023 8067 1898

Mobile: 0781 334 2211

Email: r.t.wilson@rmpplc.co.uk

Date of Birth: 14th July 1988

Age: 22 years

Career Goal

To study for a PhD and then become a lecturer at a university. I feel strongly that I want to be involved in research and teaching in Higher Education.

Education and Qualifications

2007 -

University of Southampton

BSc Geography – First Class

Modules have included:

Remote Sensing for Earth Observation
Introductory & Advanced GIS
Drainage Basin Geomorphology

Global & Local Environmental Change
Aeolian Systems and Geomorphic Modelling
Quantitative Methods for Geographers

Overall mark: 72.8%

- I gained the highest overall mark in my year
- I gained a mark of 81% for my dissertation '*Automated selection of suitable atmospheric calibration sites for satellite imagery*', which was the second highest mark in my year. As part of this project I taught myself eCognition (an object-based image processing package) and I used this together with ENVI/IDL to develop an innovative approach to feature extraction for sensor calibration. I presented this work at the RSPSoc Annual Student Meeting, and I hope to expand it into a paper for publication.
- I gained consistently high marks for large-scale pieces of coursework, including a mark of 90% for the coursework for my *Drainage Basin Geomorphology* course.
- I have experience working with the University High Performance Computing clusters for my Aeolian Systems and Geomorphic Modelling coursework.

2006-2007

Chartered Management Institute

Level 3 Certificate in Management

2004-2006

Hereford Sixth Form College

A-Level: Geography (A), Computing (A), Physics (A), Music (B), General Studies (A),
AS-Level: Critical Thinking (A), Mathematics (B)

I scored 100% in 7 of the A-Level modules, including my A2 Geography Coursework

1999-2004

Dyson Perrins CE High School, Malvern, Worcestershire

GCSE: A* Mathematics, Double Science, Music; A English, Geography, Religious Studies,

Work Experience

- Summer 2010** Year in Industry Ambassador (paid part-time job)
- Co-ordinated and organised Year in Industry presence at careers fairs and university open days
 - Attended a number of these events as the senior Year in Industry employee present
 - Received good feedback from a number of potential students regarding my enthusiastic and clear explanation of the Year in Industry scheme
- Summer 2009** EPSRC Vacation Bursary (10 weeks)
- Worked with Professor Ted Milton on a research project entitled '*Visualising the sky radiance distribution: towards an automated data acquisition system for atmospheric correction of Earth Observation data*'.
 - Developed my skills in IDL programming, including creating user-friendly GUIs, several of which are now in use by researchers within the School of Geography.
 - Gained skills in analysing and visualising large multidimensional datasets in a variety of programming languages.
 - Assisted Prof. Milton in the installation and commissioning of an automated tramway system at Chilbolton Facility for Atmospheric and Radio Research. My specific responsibilities included: (i) interfacing an Ocean Optics spectrometer to a Linux netbook PC, (ii) installation and programming of a Linux-based webcam, (iii) development and testing of a sky haziness sensor (including LabView and PIC programming), and (iv) writing data handling and reformatting routines.
 - Took part in the induction programme for a MSc student undertaking a research project at Southampton. I helped him to learn IDL and provided advice regarding data processing.
- Summer 2008** **School of Geography, University of Southampton** (paid research placement)
- Worked with Professor Paul Carling on a research project into subaqueous yardangs in the Severn Estuary.
- 2006-2007** **British Energy, Gloucester** (salaried *Year in Industry* placement)
High Integrity Software Engineering
- Part of the software control and protection team for Sizewell B Nuclear Power Station
 - Worked as the main programmer on the replatforming to modern hardware of two safety-related systems
 - Set up a new development environment, with associated procedures and documentation, which will continue to be used for future projects
 - Produced detailed design and requirements documents for review by the Nuclear Installations Inspectorate (the nuclear industry regulator)
 - Consulted with colleagues across the country, and contractors in the USA, to arrange live testing at Sizewell B
 - Successfully completed a CMI management course whilst in full-time

employment

2005 -

Wilson Computer Services (own business)

- Providing professional computer services to various personal and business clients in the Malvern area
- Includes hardware and software configuration and troubleshooting
- Customer satisfaction has lead to increase in client base, purely through word of mouth

IT Skills

Programming

- Developed two medium-sized applications in C++ .NET for *British Energy*
- Developed a bookshop management application in Visual Basic 6 for my A-level Computing coursework which is now in use at *Malvern St James* school
- Practical experience of using the Microsoft .Net runtime and associated libraries
- Developed a set of helpful routines written in IDL to extend the image processing software ENVI (see www.rtwilson.com/academic/software)
- Produced IDL routines to automate data processing and visualisation for my dissertation
- Experience with statistical software including SPSS, Minitab, R (with ggplot2) and gnuplot
- Experience of web design and development (using (X)HTML, CSS, eRuby, Ruby on Rails and PHP)

Operating Systems

- Experienced with both Microsoft Windows and Linux/Unix

Electronics

- Basic experience programming PIC microcontrollers
- Basic electronics experience, including soldering and low-level data communications protocols
- Experience of scientific data loggers from both a hardware and software point of view

Microsoft Office

- Wide experience of Microsoft Office software including Visual Basic for Applications in Access and Excel

Interests and Achievements

- Clarinet (Grade 7), piano, trombone
- When my sixth form college needed a trombonist I taught myself to play, and was soon a member of the Herefordshire Youth Orchestra.
- Full driving license, with no endorsements, held since 2006
- President of the Southampton University Student Christian Movement 2008-2009 and Secretary 2010-2011
- Secretary of Southampton University Chaplaincy Student Council 2009-Present

References

Available on request