

Sebastian A. Wills

Address:

Clare College
Cambridge CB2 1TL
United Kingdom

Date of birth: 29th Sept 1977
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ACADEMIC QUALIFICATIONS & EDUCATION

- 2000-2004* **PhD (in progress), Dept of Physics, University of Cambridge**
Topic: Computation with biologically-plausible neural networks.
Supervisor: Professor David J.C. MacKay
- 1996-2000* **MSci. Natural Sciences, Clare College, University of Cambridge**
Part 1A (1997): Computer Science Tripos: **class I**
Part 1B (1998): Natural Sciences Tripos (NST), Advanced Physics: **class I**
Part 2 (1999): NST, Experimental & Theoretical Physics: **class I**
Part 3 (2000): NST, Experimental & Theoretical Physics: **class I**
- 1995* A-levels, Bryanston School, Dorset
Mathematics, Further Mathematics, Physics, Electronics, Music all at grade A.
Certificates of Excellence (out of 3 awarded per examining board) in Physics
and Electronics. STEP exams in Physics ('S') and Mathematics ('1').

INDUSTRIAL EXPERIENCE

- 1996-2000* **Sponsored by STMicroelectronics Ltd.**, including **8 week placement each summer**. Projects included developing a cycle-accurate software model of a CPU and a hardware test environment for IEEE1284 interfaces.
- 1995-1996* **11 month Year in Industry placement with SGS-Thomson Microelectronics Ltd** (now STMicroelectronics Ltd), Bristol R&D Centre. Projects included design and FPGA prototyping of a PC-Card interface ASIC, and evaluating data caching techniques for CPUs.
- 1994-1995* Developed A-level electronics project into a marketable product and marketed it to schools in the UK

COMPUTING SKILLS & EXPERIENCE

- 2003* Planned and set-up 40-PC open-source computer laboratory at the African Institute for Mathematical Sciences, Muizenberg, South Africa. Included 6 weeks working on-site.
- 2002-present* Systems administrator, Student-Run Computing Facility, University of Cambridge. Jointly managed linux server with over 1,000 active users.
- 2002-present* Freelance IT consulting, including managing ICT infrastructure for a small business.

Excellent knowledge of TCP/IP, web authoring, PC and network hardware, Windows, Linux.
Computer languages: C, C++, Java, Perl, Matlab, SQL, VHDL, Modula-3.

TEACHING EXPERIENCE

- 2001-03 Taught 'Mathematics for Natural Scientists' course to groups of undergraduate students: 2-3 hours per week for 3 years
- 1997 Classroom assistant for weekly IT class at Hills Road 6th Form College, Cambridge

ORGANISATIONAL SKILLS

- Nov. 1999 **Organised 2 day international conference:** 'Sanctions on Iraq: background, consequences & strategies', bringing together 18 expert speakers and over 150 delegates from five countries. Led team of 8.
- Jan. 1999 **Organised 5 day national speaking tour** for former UN Assistant Secretary-General, Denis Halliday
- 1997 Founded 'Campaign Against Sanctions on Iraq', a humanitarian, human-rights based campaigning and information-provision organisation. Co-ordinator of the group for 18 months, during which time it became known on a national level. Chaired committee of ten.
- 1995 Produced and edited a 30 minute film

TRAINING COURSES

- 2003 *Navigator* personal development programme (4 days)
- 2002 UK Research Councils' Graduate Training Programme (5 days)
- 1996-97 NEBSM Supervisory Management training course (3 weeks)

AWARDS

- 1997-1999 Scholarship, Clare College, University of Cambridge
- 1990-1995 Music scholarship to Bryanston School
- 1994-1995 Academic scholarship, Bryanston School
- 1994 Reached National Finals of Young Electronic Designer Awards

OTHER INTERESTS

- Music Grade 8 Distinction obtained in piano & clarinet; considerable experience of public performance including as a concerto soloist. Enjoy chamber & orchestral playing and singing. Toured France as a member of Trinity Hall Chapel Choir, Cambridge. Recently took up the violin.
- Travel Including South Africa, Ecuador, Peru, Venezuela, Europe, Egypt, Nepal

REFEREES

Available on request