

Mair Allen-Williams

Personal details

Address 18 Westridge Court, 30 Westridge Road, Southampton SO17 2HQ

Email mair@allen-williams.com

d.o.b. 30 January 1981

Education

2005– Southampton University

Working on a PhD in agent coordination using Bayesian learning techniques.

2004–2005 Edinburgh University

MSc with distinction in Informatics.

2000–2003 Girton College, Cambridge University.

BA (hons) in Computer Science, Class 1.

1997–1999 Lincoln Christ's Hospital School, Wragby Road, Lincoln. LN4 4NP

A-levels: English literature, History, Mathematics, Chemistry, Physics and General studies at Grade A.

1992–1997 Ackworth School, Pontefract, West Yorkshire. WF7 7LT

GCSEs: 10 at Grade A*, including mathematics and separate sciences. Design Technology at grade A.

Publications

- “Acute: High-level programming language design for distributed computation”. Peter Sewell, James J. Leifer, Keith Wansbrough, Francesco Zappa Nardelli, Mair Allen-Williams, Pierre Habouzit, Viktor Vafeiadis. ICFP 2005.
- “Acute: High-level programming language design for distributed computation Design rationale and language definition”. Peter Sewell, James J. Leifer, Keith Wansbrough, Mair Allen-Williams, Francesco Zappa Nardelli, Pierre Habouzit, Viktor Vafeiadis. Technical Report UCAM-CL-TR-605, October 2004.

Awards and prizes

2003 Emily Davies Scholarship, Girton College.

2003 C.B. West Prize, Girton College.

2002 Barbara Bodichon Scholarship, Girton College.

2002 Raemakers prize, Girton College.

Employment History

September 2003–September 2004 Research Assistant in Theory and Semantics Group, University of Cambridge Computer Laboratory

I worked with the Theory and Semantics group on high-level programming language design issues for distributed computation, and the implementation of an experimental language. Details of the project are at <http://www.cl.cam.ac.uk/~pes20/acute>.

February–May 2000 Assistant at FWAG, Lincoln.

This job involved map drawing, map reading and navigation, use of Microsoft Word and Excel, answering phones and general administration. As the May deadline approached, the work became fairly hectic, often involving late evenings.

Other Experience

Part II Project

For my third year project I designed and implemented an information retrieval system to enable a user to find information stored on his personal computer. This involved deciding which data structure to use for the index, coding up the retrieval system and implementing a concurrency mechanism. I used C++, which was new to me, to write the program.

Part 1B Project

In second year I took part in group project in which we designed a system to route a canal as cheaply as possible across the countryside. I acted as a tester for the project, which was coded in Java.

I have also carried out a number of computer related projects in my own time in varied languages including Prolog, ML, C and Java. I have my own website, www.flurple.org.

Recent Responsible Positions

2001–2002 Cambridge University Guild of Change Ringers Secretary and Junior Treasurer

As secretary and junior treasurer, I managed the accounts, dealt with correspondence, organised the dinner for about 125 people and an outing for about 30 people.

1998–2003 Lincoln Society of Friends Co-treasurer

My part of the job was to fill in the ledger and ensure that the accounts balance.

2002–2003 Cambridge University Guild of Change Ringers Webmaster

During my year as webmaster I rewrote the site using valid xhtml and css, giving it an SQL backend which was accessed mainly by perl scripts. I automated as much as possible of the site, including a nightly backup.

Currently: Webmaster for several websites

I redesigned and now webmaster the university bellringers' website, the local cycling campaign website, the university bicycle users network website, and the Friends of Lincoln Cathedral website.

Computer skills

In particular, I have sufficient experience with many areas of operating systems and computing languages to be able to quickly pick up new ideas and track down problems.

Operating systems

Windows (XP, ME, 98), Linux (Debian, Ubuntu), FreeBSD (a little)

Languages

Matlab, Octave, C, C++, Java, Prolog, ML (and friends), Perl, Basic, PHP, ARM Assembler (some), ...

Other

XML, HTML, WML, SQL, CSS, Latex, bash/shell.

Other interests

I enjoy reading and have eclectic tastes in literature. I love cycling and have an interest in conservation; in the past I have taken part in BTCV holidays, dry stone walling and building footpaths. I am also a keen bellringer. I have gained my gold Duke of Edinburgh's award and am working for my gold. I have some involvement with the Society of Friends (Quakers); through the Quakers I was part of a project which produced a book on divorce and changing family patterns.