

Dr David Christopher King

Personal details

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Date of birth: 4th June 1984

Education

PhD Chemistry, “Sonochemical analysis of the output of ultrasonic dental descalers”, University of Bath, UK, 2011

BSc. (Hons.) Chemistry (2:1), University of Bath, UK, 2005

A2-levels in Chemistry (C), Computing (B), Maths (D) and Physics (B), AS-level in Electronics (B), East Norfolk Sixth Form College, UK, 2002

GCSEs in Biology (A), Chemistry (A*), Electronics (B), English (B), Geography (B), German (B), Information Technology (C), Maths (A), Physics (A), Religious education (C), Cliff Park High School, UK, 2000

Work Experience

Software developer, Openismus GmbH, Germany, 2008–present

Harmattan Contacts, 2011. Qt-based contact management libraries and daemon for the Nokia N9, using SPARQL and Tracker.

Mentoring of trainee developers of varied skill levels and educational backgrounds

Consulting on the writing and improvement of developer and user documentation

Forward-porting and customisation work to maemo.org Bugzilla

Maemomm, 2009. C++ bindings of several GObject-based C APIs for the Maemo 5 platform, together with complete tutorial documentation and code examples

Maemo SDK release code cuts, 2009. Modification and testing of several components of the SDK to remove undesired functionality for public releases

Extensive use of C, C++, Qt and GTK+/Gtkmm in daily programming tasks

Contribution to several open source projects, including GTK+, Gtkmm and various other GNOME projects

Department of Chemistry, University of Bath

Maths tutor for 1st year chemistry, 2008–2009: teaching of 1st year chemistry undergraduates, involving one-to-one tuition as well as preparation and delivery of group workshops and lectures

Laboratory demonstrator for physical chemistry, 2006–2009: responsible for supervision and assistance of 1st year undergraduate students

Assistant invigilator, 2006–2009

Student Disability Advice, University of Bath

Laboratory assistant, 2006–2009: support of students from physics and chemistry in undergraduate laboratories

Mentor, 2006–2009: non-academic support for students from physics and chemistry

Reader/Scribe, 2006–2009: examination assistance for a range of students.

Invigilator, 2006–2009

Note taker, 2007–2009

Medical Records department, James Paget University Hospitals NHS Foundation Trust

Clerical officer, 2001-2006: clerical duties in several areas of the Medical Records department, handling of confidential files, working in a team and individually, liaising with employees in other departments

Skills

Through my employment at Openismus GmbH, I have developed excellent programming skills, as well as further enhancing my tutoring skills gained from a wide range of positions at the University of Bath. I completed my PhD thesis in my spare time, and am thus familiar with the pressures of working and studying simultaneously. I have extensive experience of C, C++ and Vala programming languages, together with Qt and GTK+/Gtkmm user interface toolkits, git and Subversion source code management systems, autotools build systems, L^AT_EX and DocBook documentation preparation. For a detailed summary of my programming skills, please see my Ohloh profile: <https://www.ohloh.net/accounts/amigadave>

My work at university has provided me with experience of individual and team work, requiring good organisational skills in order to remain focused on the needs of both students and staff. Problem-solving was an important part of the work undertaken for both the Department of Chemistry and for Student Disability Advice, and my skills in this area have improved significantly over the course of my employment and my studies. My programming experience both inside and outside of the workplace has continuously expanded my understanding of Linux, both as a programming environment and as an operating system.

Recent teaching work and conference presentations have improved my public speaking skills significantly. Finally, I am highly capable of becoming proficient in new areas of study with no intervention, and I feel this is as a result of the other skills I possess, my personality and the unique experience that my university studies and employment have been able to offer me.

Interests

I enjoy photography, both as an artistic endeavour and a chemical process. During 2006 I became involved with PhotoSoc, the student photographic society at the University of Bath, as the training officer, and delivered numerous presentations and critique sessions. I have a strong interest in computing and technology, and consequently possess a wide variety of computing skills. I have been an avid Linux user for over ten years, and have accumulated a broad knowledge of the operating system and its components, acting as administrator for a home network, friends and family. In line with my long-running Linux interest, I am a passionate believer in the ideals of Free and open source software, and follow the community and industry closely. To this end, I am the maintainer of three free software projects, Cheese, Vino and Vinagre, all of which are part of the GNOME project. Additionally, I am a GNOME Foundation member. I have enjoyed cycling as a child, and continue to now, cycling regularly, both as a commuter and for recreation.

Referees

Mr. Murray Cumming (Openismus GmbH managing director), Zweibrückenstr. 15, 80331 München, Germany. Email: murrayc@openismus.com

Prof. Gareth Price (PhD supervisor), Department of Chemistry, University of Bath, Bath, BA2 7AY, United Kingdom. Telephone: +44 (0) 1225 386504. Email: g.j.price@bath.ac.uk

Prof. Steve Parker (Department of Chemistry contact), Department of Chemistry, University of Bath, Bath, BA2 7AY, United Kingdom. Telephone: +44 (0) 1225 386505. Email: s.c.parker@bath.ac.uk

Ms. Louise Miller (Student Disability Advice contact), Student Disability Advice, University of Bath, Bath, BA2 7AY, United Kingdom, +44 (0) 1225 385538. Email: l.miller@bath.ac.uk

Ms. Kim Harris (Medical Records manager), James Paget University Hospitals NHS Foundation Trust, Lowestoft Road, Gorleston, Great Yarmouth, Norfolk, NR31 6LA, United Kingdom. Telephone: +44 (0) 1493 452452

Research

Published works

Cavitation occurrence around ultrasonic dental scalers, B. Felver, D. C. King, S. C. Lea, G. J. Price, A. D. Walmsley, *Ultrasonics Sonochemistry*, 2009, **16**(5), 692-697

Conferences attended

Maemo Summit 2009 (oral presentation), Amsterdam, the Netherlands, October 9th-11th, 2009

11th meeting of the European Society of Sonochemistry (oral presentation), La Grande Motte, France, June 1st-5th, 2008

10th meeting of the European Society of Sonochemistry (poster presentation), TUHH, Hamburg, Germany, June 4th-8th, 2006

Last updated: November 7, 2011
<http://amigadave.com/david.king.cv.pdf>