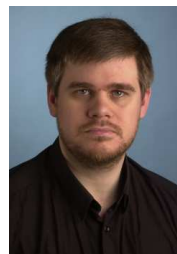


Curriculum Vitae

Andrew A. Adams

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Personal Details

Date of Birth:	19/11/1969	Nationality:	British
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Tokyo contact details valid until end September 2007.

Employment

Jan–Dec 2007 Visiting Professor, 明治大学 (Meiji University), Tokyo

I am currently on a research sabbatical from my permanent post at University of Reading in the UK. As part of this I have been appointed to the post of Visiting Professor at Meiji University in Tokyo, where I am working with Professor Kiyoshi Murata and his former PhD student Dr Yohko Orito (now an Assistant Professor at Ehime University) on a cross-cultural study on Japanese laws and attitudes to privacy, particularly of electronic data. This work is funded by a (UK) Royal Academy of Engineering “Global Research Award” as well as University of Reading and Meiji University.

2000–Present Lecturer at University of Reading

I am currently a lecturer with a permanent post within the School of Systems Engineering at University of Reading. The School offers degrees in Computer Science, Information Technology, Cybernetics and Electronic Engineering. My duties cover teaching and administration across all degrees in the School, as well as research.

Jul–Sep 2001 Visiting Research Fellow at the Universität des Saarlandes

In the summer of 2001 I undertook an EU-funded visiting research fellowship at the Universität des Saarlandes in Saarbrücken, Germany. This was part of the EU Fifth Framework network Calculemus.

1997–2000 Research Fellow at University of St Andrews

I was a research fellow employed on an EPSRC-funded project investigating the use of theorem proving software to support computer algebra calculation.

Education

2003–2005 LLM at University of Reading

I undertook a Masters degree in Advanced Legal Studies, sponsored by my employer, University of Reading, and achieved a distinction.

1994–1997 PhD at University of St Andrews.

Under Dyckhoff's supervision I completed my PhD, submitting my thesis *Tools and Techniques for Machine-Assisted Meta-Theoretic Proof* in August 1997, and was awarded the PhD by examiners Martin (of St Andrews) and Luo (of Durham) in November 1997.

1992–1994 MSc by research at University of Leeds.

I did a part-time MSc by research (no taught component) in Computer Science at Leeds under the supervision of Tarver and Cohn. This course was self-funded: I received no grants or fees from any outside body. The thesis title was *INDUCT: A Logical Framework for Induction Over Natural Numbers and Lists Built in SEQUEL*, and I was awarded the MSc with distinction by my examiners McEvoy (of Leeds) and Bundy (of Edinburgh) in January 1995.

1988 – 1991 BSc at University of Leeds.

My first degree was Combined Studies in Maths and Computational Science, from which I graduated in July 1991 with a II(i) Honours degree.

Research

Following my PhD I continued with research in computer mathematics including involvement in European projects. Once an independent academic at Reading, I began studying social, legal and ethical aspects of computer and communication technology, including studying for a Masters degree in Law. Success in gaining grants to pursue these aspects of my research has led to it becoming my current principal focus.

I am a member of the Informatics Research Centre (www.irc.rdg.ac.uk), an interdisciplinary centre offering MSc and PhD programmes in informatics as well as undertaking research projects. I am the deputy head of the related Informatics Research Group in the School of Systems Engineering.

Social, Legal and Ethical Aspects of ICT

I research and write papers on (and have written an undergraduate textbook about) the full range of social and legal issues raised or strongly influenced by modern computer and communication technologies. I have published/submitted or am currently writing papers on issues of copyright, surveillance, identity, privacy and data protection. I hold grants relating to research in privacy, surveillance and bio-terrorism preparation and reaction. I am working with collaborators on future projects including censorship and online child pornography as well as continued work on copyright, privacy, surveillance and security research in addition to elearning issues.

My Masters in Law and PhD in computer science provide a very unusual background (very few academics are qualified at postgraduate level in both fields) and allow me to analyse both technology and its impacts. My cross-disciplinary approach to issues involves building on the work of psychologists, sociologists, urban planners and economists as well as technologists and lawyers. My focus is on research that matters to the world at large but is firmly grounded in solid academic theory.

I am a member of the British Computer Society (through whom I hold the status of Chartered Information Technology Practitioner), IEEE, ACM, LMS, British Association for the Advancement of Science, Society for Computers and Law, and Computer Professionals for Social Responsibility.

Teaching-Based Research

Related to both my efforts to keep up to date in teaching methods and practices and to my work on social, legal and ethical aspects of computing, I carry out research on improved elearning processes. I have published two papers on applying software engineering approaches to the production of elearning materials.

Contacts and Collaborations

I have given invited seminars at universities and research institutes around the world, including SRI International in California, McMaster University in Canada, INRIA in France, Edinburgh University in the UK and Matsuyama University in Japan. Current collaborations involve academic researchers, public employees and commercial researchers from the US, France, Germany, Netherlands, Italy, Spain, the UK and Japan.

I have given guest undergraduate and postgraduate lectures at the Universities of Nottingham and Birmingham in the UK and at the NII in Tokyo.

Research Support Activities

In addition to the usual duties of my position at Reading and my primary research work I have been involved in the following research-related activities:

- I was a member of the Programme Committee for the 2001 Calculemus conference, and a member of the Programme Committee for the 2004, 2005 and 2006 MKM conferences, and was being Conference Chair of the 2006 MKM conference.
- I edited a Special Issue of the International Review of Law, Computers and Technology in 2006. I have refereed papers for the International Journal of IT and Management and the UK's Higher Education Academy conference on ICT education amongst others.
- I have refereed research grant proposals for the Council for Physical Sciences of the Netherlands Organization for Scientific Research (NWO) and the UK's Engineering and Physical Sciences Research Council.
- I supervised the PhD of Gottliebsen at St Andrews (who successfully defended in 2000 and is now a lecturer at Queen Mary University of London). I am the second supervisor of two PhD students at the Informatics Research Centre in Reading.
- I have been involved in government consultations regarding open source software use, been interviewed by the BBC for current affairs programmes and websites and given a University of Reading Public Lecture. I am a founding member of the Open Rights Group, a lobbying and information organisation dedicated to improving human rights in the UK with regard to digital technologies.

Teaching Company Schemes/Knowledge Transfer Partnerships

The UK's Department of Trade and Industry sponsors a scheme originally called Teaching Company Scheme [TCS] and then renamed Knowledge Transfer Partnerships [KTP] (grants detailed below). I have been involved in four successful projects under these schemes (see below) which involve supervising a recent graduate in embedding academic expertise in non-academic organisations.

Grants Held

I have been principal investigator or co-investigator on grants from the European Commission and the UK's Engineering and Physical Science Research Council as well as TCS/KTP projects.

EU Projects

- 09/02–11/03 **€180k** PI
IST-2001-37057 MKMNet
European Framework 5 Network grant on Mathematical Knowledge Management. Partners included Universitaet des Saarlandes, CWI, University of Bath and NAG. (Reading funded provided by EPSRC, see below.)
- 02/05–01/07 **€2M** Co-I
SEC4-PR-013800 ISCAPS
European Preparatory Action for Security Research theme. Analysis of the social and legal acceptability of the technical proposals for automated surveillance of public areas. This involves local collaboration with Dr Ferryman and external partners including SAGEM and BAE Systems. Reading is the largest contractor attracting more of the funds than any other partner except the coordinator. The European Commission singled out the social, legal and ethical workpackage of this proposal as a model for future security research proposals.
- 06/07–12/08 **€480k** PI
SEC6-PR-204300 BIO3R
European Preparatory Action for Security Research theme. Bioterrorism Resilience, Research, Reaction — Supporting Activity Promoting Cooperation to Assess the BIO Threat and Organise a Collective and Comprehensive Response for EU Society and Citizens' Biosecurity. I am responsible for the principle social, legal and ethical analysis elements. Reading is also responsible for the dissemination workpackage.
- 02/07–04/08 **€411k** PI
SEC6-PR-211900 EuroCop
European Preparatory Action for Security Research theme. A project to study the use of mobile information provision and IT usage by pedestrian policemen in Europe and develop possible new products. I am responsible for the workpackage on social, legal and ethical analysis elements. Reading is also responsible for the dissemination workpackage, and is the recipient of more funds than any partner except the coordinator.

EPSRC Projects

- 03/06–02/09 **£231k** Co-I
EP/C533402/1 Robust Methods for Monitoring & Understanding People in Public Spaces (REASON). A major set of linked grants to Reading, Kingston and UCL (the figure above is the Reading grant).
- 10/02–12/03 **£5k** PI
GR/S10919 Mathematical Knowledge Management. A travel grant related to the EU MKM-Net project. Final EPSRC Appraisal: Good.
- 09/02–05/04 **£5k** PI
GR/S15044 A PVS Service for MathWEB-SB.
A travel grant to collaborate with researchers at SRI International and Universitaet des Saarlandes. Final EPSRC Appraisal: Good.

TCS/KTP Projects

TCS/KTP projects are assessed on completion and awarded a grade on a scale of 1-5 (1 being the highest and rarely awarded).

- becrypt — KTP No 258 **£112k** (assessed grade 2)
- Gekko — TCS No 4383 **£99k** (assessed grade 2)
- SMT Network Solutions — TCS No 3286 **£87k** (assessed grade 3)
- Silicon Tor — TCS No 3826 **£95k** (assessed grade 2)

Other Projects

- 2006–2010 **£30k**
Adaptive Information Architecture for Enterprise Content Management. PhD studentship from University of Reading Research Endowment Trust Fund [RETF].
- 05/01–05/02 **£2k**
Computer Mathematics (RETF)
A small pump-priming grant which led to my involvement in the EU MKMNet project.

Teaching

I prepare my own teaching materials for all the courses that I teach and use innovative elements involving online tests, discussion boards and other electronic support materials, as well as traditional lecturing and formative assessment strategies.

Examples of my teaching materials (lecture notes and podcasts) can be found at www.rdg.ac.uk/~sis00aaa/Meiji/.

Modules Taught

- 00–01 2-term Part II unit Design Methodologies (70 students; 20 lectures).
- 01–02 3-term Part II unit Design Methodologies (80 students; 30 lectures).
2-term Part III unit Social, Legal and Ethical Aspects of Software Engineering (SLEASE) (70 students; 20 lectures).
- 02–03 2-term Part 1 module Functional Programming (150 students; 40 lectures).
3-term Part II unit Design Methods (85 students; 30 lectures).
2-term Part III unit SLEASE (80 students; 20 lectures).
- 03–04 2-term Part 1 module Functional Programming (80 students; 40 lectures).
2-term Part III unit SLEASE (85 students; 20 lectures).
- 04–05 2-term Part 1 module Functional Programming (65 students; 40 lectures).
2-term Part 3 module Professional Aspects of CS and IT (PACSIT) (165 students; 40 lectures).

- 05–06 2-term Part 1 module Software Engineering
(210 students; 12 lectures).
2-term Part 3 module Social, Legal and Ethical Aspects of Science and Engineering
(SLEASE) (185 students; 20 lectures).
- 06–07 2-term Part 1 module Software Engineering
(180 students; 10 lectures).
2-term Part 3 module Social, Legal and Ethical Aspects of Science and Engineering
(SLEASE) (168 students; 16 lectures).

Course Development

I was one of the main academics behind the design of the Information Technology BSc degree which first accepted students in 2002, and for the joint Information Technology and Business degree programmes (four in total) which started in 2005. I was also heavily involved in the updating of the Computer Science BSc degree for the 2005-6 academic intake. I have sat on the Information Technology and Computer Science Boards of Studies since arriving at Reading and as Senior Tutor have been a member of the School Teaching and Learning Committee which oversees the work of the Boards of Studies. I am due to become Programme Director for the Information Technology Degree and the two IT and Business degrees with a major in IT this September. The Programme Director at University of Reading is the individual academic with formal responsibility for ensuring that a degree programme complies with University teaching regulations, managing both the course descriptions and the staff delivering the individual modules.

Administration

I have been a Personal Tutor to individual students since 2001, mentoring over thirty students to the completion of their degrees. In 2001–2 academic year I was the deputy Admissions Tutor for Computer Science and Information Technology degrees, and then Admissions Tutor from October 2002 to September 2004. In 2001–3 I arranged the Computer Science research seminars in the School, raising their profile from poorly-attended occasional events to a weekly well-attended format. In 2005 I became the Senior Tutor of the School of Systems Engineering, running the Personal Tutor system throughout the School and taking on the personal tutoring of students with particular difficulties as well as providing interim support for colleagues and short term extra help for students. On my return to Reading in October 2007, I will become the Programme Director for our Information Technology degrees, overseeing the staff and content of existing degrees (including four joint programmes with the Business School) as well as for developing new degree courses in this area, such as a proposed Software Engineering degree.

I have been involved in developing documentation for both internal and external teaching quality reviews, including successful applications for continued BCS accreditation for our degree courses.

I was the Honorary Secretary of Reading AUT (the UK HE academic professional association and trade union, now merged into the UCU) for eighteen months from 2001-2003 and then an Ordinary Committee Member for a further three years. During this time I regularly served as one of Reading's delegates to AUT Council, the policy-setting conference of the union.

Publications

Refereed Papers

- *Regulating CCTV.*
Proceedings of Ethicomp 2007 (Vol 1).
Meiji University, 2007; ISBN: 4-9903558-0-7; pp. 3–14
- *Perspex Machine VIII: Axioms of Transreal Arithmetic.*
Vision Geometry XV, Proceedings of the SPIE-IS&T Electronic Imaging.
SPIE Vol. 6499, 2007; ISBN 0-819-46612-9
Joint work with Anderson and Völker.
- *Valid Protection or Abusive Control? DRM, Law and Technology.*
International Review of Law, Computers and Technology; Volume 20(3), 2006; ISSN: 1360-0869/1364-6885; pp. 233–237.
- *Customer-Driven Development for Rapid Production of Assessment Learning Objects.*
Electronic Journal of e-Learning; Volume 4(1), 2006; ISSN 1479-4403; pp. 1–6.
Joint work with Williams.
- *The Effectiveness of Assessment Learning Objects Produced Using Pair Programming.*
Electronic Journal of e-Learning; Volume 2(2), 2004; ISSN 1479-4403; pp. 247–256.
Joint work with Lubega, Walmsley and Williams.
- *Digitisation, Representation and Formalisation: Digital Libraries of Mathematics.*
Mathematical Knowledge Management.
Springer “LNCS 2594”, 2003; ISBN: 3-540-00568-4; pp. 1–16.
- *Definite Integration of Parametric Rational Functions.*
Symbolic Computation and Automated Reasoning.
A. K. Peters, 2001; ISBN:1-56881-145-4; pp. 3–17.
- *Computer Algebra meets Automated Theorem Proving: Integrating Maple and PVS.*
Theorem Proving in Higher Order Logics.
Springer “LNCS 2152”, 2001; ISBN: 3-540-42525-X; pp. 27–42.
Joint work with Dunstan, Gottliebsen, Kelsey, Martin and Owre.
- *A Formalisation of Weak Normalisation (with Respect to Permutations) of Sequent Calculus Proofs.*
LMS Journal of Computation and Mathematics; Volume 3, 2000; ISSN: 1461-1570; pp. 1–26.
- *Automated theorem proving in support of computer algebra: symbolic definite integration as a case study.*
Proceedings of the 1999 International Symposium on Symbolic and Algebraic Computation.
ACM Press, 1999; ISBN: 1-58113-073-2; pp. 253–260.
Joint work with Gottliebsen, Linton and Martin.
- *VSDITLU: a verifiable symbolic definite integral table look-up.*
Automated Deduction — CADE16.
Springer “LNAI 1632”, 1999; ISBN: 3-540-66222-7; pp. 112-126.
Joint work with Gottliebsen, Linton and Martin.

Textbook (*In Press*)

- *Pandora's Box: Social and Professional Issues of the Information Age.*
John Wiley and Sons, October 2007; ISBN 0-470-06553-2.
Joint work with McCrindle.

Recent Workshop Paper

- *From 1984 to V for Vendetta via Minority Report*
Fictional Representations of Surveillance and Their Factual Impact
GikII workshop attached to Computer Law World Conference, Edinburgh 2006.

Recently Submitted Papers

- *A Decade of Copyright Myths: The WIPO Copyright Treaty Ten Years On*
Joint work with Brown of UCL. Submitted to the Communications of the ACM.
- *The ethical challenges of ubiquitous healthcare*
Joint work with Brown of UCL. Extended Abstract of 1500 words (for a 3000 word paper) submitted to a special issue of the International Review of Information Ethics on Ethical Challenges of Ubiquitous Computing.

Referees

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Professor Baker is a former Head of the Department of Computer Science and former Dean of Science at University of Reading. He is the Editor of the major international journal "Image and Vision Computing".

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Professor Murata is Director of the Centre for Business Information Ethics and Vice Dean of the Graduate School of Commerce, Meiji University. He is a member of the Editorial Board of the Journal of Information, Communication and Ethics in Society.

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Professor Liu is an internationally recognised expert in the area of semiotics. He is Director of Infrastructure of the School of Systems Engineering, the Director of the interdisciplinary Informatics Research Centre (of which I am a member) and head of the Informatics Research Group in the School (of which I am the deputy head).