



MICHAEL ANGUS SCOTT JONES

BSc MSc PhD MInstP

PERSONAL DETAILS

Home Address	30 Redruth Street, Manchester, M14 7PX, UK	
Work Address	Jisc, 6 th Floor, Churchgate House, 56 Oxford Street Manchester, M1 6EU, UK	
Telephone	Work: +44 161 413 7562	Work Mobile: +44 7920 085821
	Home: +44 161 6149 100	Mobile: +44 7779 128304
email	mike.jones@jisc.ac.uk	
Date of Birth	25th March 1975	
Marital Status	Married	
Nationality	British	



QUALIFICATIONS

Degrees	PhD Experimental Particle Physics	Using AFS As A Distributed File System For Computational And Data Grids in High Energy Physics
	MSc Experimental Particle Physics	Measurement of Depletion Voltage And Leakage Current For Silicon Strip Detectors
	BSc(Hons) Physics with Technological Physics	(2.II)
Professional	Secon101x: Cyber Security Economics; Sun Grid Engine Certification	
G.C.E.	S-Level	Physics (Merit)
	A-Level	Physics (A), Pure Mathematics With Mechanics (B), Chemistry (C), General Studies (D)
G.C.S.E.	10 Awards including Physics (A), Mathematics (A), English Language (B), French (B)	
City & Guild	Radio Amateurs' Examination	
Others	Demonstrators and Student Assistants' Training; Basic German; Driving Licence	

EMPLOYMENT

Jisc August 2014 to Present	Senior Infrastructure Architect Service Delivery Infrastructure Manager
The University of Manchester September 2001 to Present. Various positions within Mimas, Manchester Computing, Research Computing Services and the North-West eScience Centre	Senior Developments Officer / Senior Systems Support Officer Senior Software Engineer Research Computing Services Manager Senior Grid Developments Officer eScience and Grid Computing Consultant Research Associate (Grid applications and infrastructure)
Liverpool University Teaching Academic years 1997, 1999 and 2000	Physics Class Tutor and Laboratory Demonstrator
The University of Manchester Teaching Academic year 1996	Optronics and Computational Physics Laboratory Assistant and Demonstrator
Shell Research Ltd. Thornton Research Centre, Summer 1996	Internship: Hydrocarbon in Steam detector design
British Nuclear Fuels (BNFL) Risley, Maths and Physical Sciences Section Summer 1995	Internship: On-line nuclear physics nuclear engineering portal, Literature searches
Pilkington Optronics St Asaph, Summer 1994	Internship: Test and Development Engineering & Holography

HONORARY POSITIONS

The University of Manchester Faculty of Humanities, August 2014 to present.	Honorary MIMAS Senior Development Officer
The University of Manchester School of Physics and Astronomy, May 2008 to November 2012.	Honorary Research Fellow



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POSITIONS OF RESPONSIBILITY

Member of the UK Access Management Federation Technical Advisory Group	2013 – 2015
Research Computing Services Manager (National Grid Service)	2008 – 2013
Research Computing Services Grid Developments Team Leader	2007 – 2013
UK eScience CA Registration Authority Manager	2007 – 2014
Member of the UK eScience All-Hands Programme Committee	2008, 2009, 2010, 2011
Grid Engineering Task Force, Project Leader	2004 – 2008
Local and National, Grid and eScience Support	2001 – 2013
University of Manchester Postgraduate and Mature Students' Society Deputy Chair	2002 – 2004
Forward Track Detector on call expert at H1, DESY	1998 – 1999
Shift work in small teams, responsible for data taking on the H1 experiment	1998 – 2001
Member of the Forward Tracker Upgrade Team	1998 – 2001
Various university and school, club secretary and captain positions	

PROJECTS

Jisc Login	Jisc	2016 – Present
Jisc Historic Books now Historical Texts and Journal Archives	Jisc	2013 – Present
eTekkatho	Open Society Foundations	2013 – 2015
The National Grid Service (NGS) [operations, management]	JISC	2004 – 2012
Meeting the design challenges of NanoCMOS Technology (NanoCMOS)[co-investigator]	EPSRC, Industry	2008 – 2011
Shibboleth Access to Resources on the NGS (SARoNGS) [co-investigator, consultant]	JISC	2008 – 2012
User Friendly Security Solutions for Grid Environments	EPSRC	2007 – 2010
Grid Engineering Task Force	EPSRC	2001 – 2008
eScience Infrastructure Levels of Assurance (ES-LoA)	JISC	2006/7
Shibboleth Enabled Bridge to Access the NGS (SHEBANGS)	JISC	2006/7
Grid Enabled Desktop Environment (GRENADE)	EPSRC, SGI	2004/5
OGSA Testbed	EPSRC	2003/4
Akenti Access to Zetoc (A2Z)	JISC	2002 – 2004
CAS Evaluation Project	JISC	2002/3
Seamless Access to Multiple Datasets (SAMD)	ESRC, DTI	2002
GridPP, GridPP2, BaBarGrid	PPARC	2001 – 2005
H1 Forward Tracking Detector online monitoring	PPARC	1998 – 2000

AWARDS

HPC Challenge Award: Most Geographically Distributed Application at SC2002 Member of the international team on project entitled "Global Grid Collaboration Testbed"
HPC Challenge Award: The Most Heterogeneous Set of Platforms award at SC2002 Member of the international team on project entitled "Global Grid Collaboration Testbed"
HPC Challenge Award: Most Innovative Data-intensive Application at SC2003 Member of the team on project entitled "Transcontinental RealityGrids for Interactive Collaborative Exploration of Parameter Space."
Duke of Edinburgh Award: Bronze, Silver and Gold
School Prizes for physics, choir and services to the school



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EDUCATION

Postgraduate Experimental Particle Physics	Jun 2002 – Jul 2005 Part time	HEPP, Department of Physics & Astronomy, The University of Manchester	
	Sep 1997 – Dec 2001	HEP Department of Physics, Liverpool University	H1 Experiment, DESY Hamburg
	Sep 1996 – Sep 1997	HEPP, Department of Physics & Astronomy, The University of Manchester	
Undergraduate Physics + Technological Physics	Sep 1993 – Jun 1996	Department of Physics & Astronomy, The University of Manchester	
Secondary Education	Sep 1986 – Jul 1993	Rishworth School, Halifax, West Yorkshire	
Summer Schools	Sztaki Budapest: Grid '05 Regional EGEE Summer School SLAC: CP Violation in the Standard Model and Beyond RAL: Summer School for Young High Energy Physicists		

TECHNICAL SKILLS

Programming	C, C++, Fortran 77, Java, Perl, PHP, Postscript, Python, Shell Scripting
System Administration	IRIX, Linux, MS Windows, Solaris
Grid Middleware	AccessGrid, InSORS, gLite, Globus (preWS, WS), GridSite, SRB, Sun Grid Engine, UNICORE
Cloud Middleware	AWS (Console, API), Azure (Console), GoogleDocs (API)
Authorisation Software	Akenti, Kerberos, OpenCA, PERMIS, Shibboleth, VOMS, CAS
Databases	PostgreSQL, MySQL

RESEARCH INTERESTS

Grid Computing	Grid Security, Global File Systems, Interoperability, Grid Economics & Accounting
eScience	Collaborative Environments, Workflow, Social Networks, Cloud Computing
Application Areas	Particle Physics, Social Science, Engineering, GeoSpatial Data, Performing Arts

JOURNAL PAPERS

2013	
"Secure data sharing across portals: experiences from OneVRE" Turner, M; Jones, M; Poschen, M; Procter, R; Rowley, A; Schiebeck, T	Phil. Trans. A 2013; 371(1983)
2011	
"Audited credential delegation: a usable security solution for the virtual physiological human toolkit" Haidar, A N; Zasada, S J; Coveney, P V; Abdallah, A E; Beckles, B; Jones, MAS	Interface Focus; 1(3):462-473
2010	
"SARoNGS: Shibboleth access to resources on the NGS" Wang, X; Richards, A; Jones, M; Jensen, J; Wallom, D; Ma, T; Frank, R; Spence, D; Young, S; Devereux, C	JIAS; 5(4):293-300.
2006	
"GridPP: Development of the UK computing Grid for particle physics" P. J. W. Faulkner <i>et al.</i> [GridPP Collaboration]	J. Phys. G 32 , N1-N20
2004	
"Forward pi0 production and associated transverse energy flow in deep-inelastic scattering at HERA" A. Aktas <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 36 , 441
2003	
"Diffractive photoproduction of J/psi mesons with large momentum transfer at HERA" A. Aktas <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 568 , 205
"Search for new physics in e+- q contact interactions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 568 , 35



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"Measurement and QCD analysis of neutral and charged current cross sections at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 30 , 1
"Measurement of inclusive jet cross sections in photoproduction at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 29 , 497
"Isolated electrons and muons in events with missing transverse momentum at HERA" V. Andreev <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 561 , 241
2002	
"Search for excited electrons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 548 , 35
"Search for odderon-induced contributions to exclusive pi0 photoproduction at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 544 , 35
"Measurement of inclusive jet cross-sections in deep-inelastic e p scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 542 , 193
"Diffractive photoproduction of psi(2S) mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 541 , 251
"Search for QCD instanton-induced processes in deep-inelastic scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 25 , 495
"Inelastic lepton production of J/psi mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 25 , 41
"Inelastic photoproduction of J/psi mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 25 , 25
"A measurement of the t dependence of the helicity structure of diffractive rho meson electroproduction at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 539 , 25
"Energy flow and rapidity gaps between jets in photoproduction at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 24 , 517
"Measurement of dijet cross sections in photoproduction at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 25 , 13
"Measurement of dijet electroproduction at small jet separation" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 24 , 33
"Search for excited neutrinos at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 525 , 9
"Measurement of D*+- meson production and F2(c) in deep inelastic scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 528 , 199
2001	
"D*+- meson production in deep-inelastic diffractive interactions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 520 , 191
"On the rise of the proton structure function F2 towards low x" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 520 , 183
"A search for leptoquark bosons in e- p collisions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 523 , 234
"Measurement of deeply virtual Compton scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 517 , 47
"Three-jet production in deep-inelastic scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 515 , 17
"Photoproduction with a leading proton at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Nucl. Phys. B 619 , 3
"Searches at HERA for squarks in R-parity violating supersymmetry" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 20 , 639
"Deep-inelastic inclusive e p scattering at low x and a determination of alpha(s)" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 21 , 33
"Measurement of neutral and charged current cross sections in electron proton collisions at high Q**2" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 19 , 269



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"Diffractive jet production in deep-inelastic e+ p collisions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 20 , 29
"Measurement and QCD analysis of jet cross sections in deep-inelastic positron proton collisions at s**(1/2) of 300-GeV" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 19 , 289
"Dijet production in charged and neutral current e+ p interactions at high Q**2" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 19 , 429
2000	
"A search for excited fermions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 17 , 567
"Inclusive photoproduction of neutral pions in the photon hemisphere at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 18 , 293
"Measurement of elastic electroproduction of Phi mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 483 , 360
"Elastic photoproduction of J/psi and Upsilon mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 483 , 23
"Measurement of di-jet cross-sections in photoproduction and photon structure" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 483 , 36
"Search for compositeness, leptoquarks and large extra dimensions in e q contact interactions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 479 , 358
"Investigation of power corrections to event shape variables measured in deep-inelastic scattering" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 14 , 255 Erratum C 18 , 417 (2000)
"Measurement of neutral and charged current cross-sections in positron proton collisions at large momentum transfer" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 13 , 609
"Measurements of transverse energy flow in deep inelastic-scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 12 , 595
"Elastic electroproduction of rho mesons at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 13 , 371
"Measurement of dijet cross-sections at low Q**2 and the extraction of an effective parton density for the virtual photon" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 13 , 397
1999	
"Measurement of open beauty production at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 467 , 156 Erratum B 518 , 331 (2001)
"A search for leptoquark bosons and lepton flavor violation in e+ p collisions at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 11 , 447 Erratum C 14 , 553 (2000)
"Forward pi0 meson production at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Phys. Lett. B 462 , 440
"Measurement of D* meson cross sections at HERA and determination of the gluon density in the proton using NLO QCD" C. Adloff <i>et al.</i> [H1 Collaboration]	Nucl. Phys. B 545 , 21
"Charmonium production in deep inelastic scattering at HERA" C. Adloff <i>et al.</i> [H1 Collaboration]	Eur. Phys. J. C 10 , 373
CONFERENCE PAPERS	
"Linking Authenticating and Authorising Infrastructures in the UK NGI (SARoNGS)" Mike A.S. JONES, Jens JENSEN	Proc. EGICF12-EMITC2 Mar 2012; Munich, Germany.
"E-infrastructure support for nanoCMOS device and circuit simulations" Sinnott, R O; Stewart, G; Asenov, A; Millar, C; Reid, D; Roy, G; Roy, S; Davenhall, C; Harbulot, B; Jones, M	Proc. PDCN 2010, Austria, Feb 2010; ACTA Press.
"FOAF+TLS: RESTful Authentication for the Social Web" Story, Henry; Harbulot, Bruno; Jacobi, Ian; Jones, Mike	SPOT 2009
"Shibboleth access for resources on the national grid service (SARoNGS)" Wang, X D; Jones, M; Jensen, J; Richards, A; Wallom, D; Ma, T; Frank, R; Spence, D; Young, S; Devereux, C	Proc IAS'09. 2009; p. 338-341.
"Integrating security solutions to support nanoCMOS electronics research" Sinnott, R; Bayliss, C; Doherty, T; Martin, D; Millar, C; Stewart, G; Watt, J; Asenov, A; Roy, G; Roy, S	Parallel and Distributed Processing with Applications, 2008. ISPA'08 p. 71-79.



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"SHEBANGS: Shibboleth Enabled Bridge to Access the National Grid Service" M.A.S. Jones, S.M. Pickles, A. Nenadic, N. Zhang.	UK e-Science All Hands (2007)
"VOMS deployment in GridPP and NGS" S. Dolgobrodov, A. Forti, M. Jones.	UK e-Science All Hands (2006)
"AliBaBa: A Heterogeneous Grid-Based Job Submission System Used By The BaBar Experiment" M.A.S. Jones, R.J. Barlow, A. Forti, A. McNab.	CHEP 2004; 2005. p. 779-782.
"The TeraGyroid Experiment." S.M. Pickles, R.J. Blake, B.M. Boghosian, J.M. Brooke, J. Chin, P.E.L. Clarke, P.V. Coveney, N. González-Segredo, R. Haines, J. Harting, M. Harvey, M.A.S. Jones, M. McKeown, R.L. Pinning, A.R. Porter, K. Roy, M. Riding.	Workshop on Case Studies on Grid Applications; GGF10 (2004)
"AliBaBa: Running BaBar jobs on the grid using gsub" M.A.S Jones, Roger J. Barlow, Alessandra Forti.	UK e-Science All Hands (2004)
"Akenti Access to Zetoc" M.A.S. Jones, A. Apps, W.T. Hewitt, R. MacIntyre, A. Sanders, A. Weeks.	UK e-Science All Hands (2003)
"BaBarGrid: eScience for a B Factory experiment" T.J. Adye, R.J. Barlow, T. Barrass, D.J. Colling, A Forti, M.A.S. Jones, J. Martyniak, S. Salih.	UK e-Science All Hands (2003)
"Seamless Access to Multiple Datasets (SAMD): An ESRC e-Science Demonstrator" K.J. Cole, W.T. Hewitt, M.A.S.Jones, S.M. Pickles, M. Riding, K. Roy, C. Russell, M. Sensier.	UK e-Science All Hands (2002)
"Seamless Access to Multiple Datasets (SAMD) – An ESRC e-Science Demonstrator." K.J. Cole, W.T. Hewitt, M.A.S. Jones, S.M. Pickles, M. Riding, K. Roy, C. Russell, M. Sensier.	EPSRC Workshop on Combining data (2002)

STANDARDS DOCUMENTS

"Interoperable Certificate Profile" David L. Groep (ed), Mike Jones (ed), Jens Jensen(ed), Michael Helm, Milan Sova, Scott Rea, Reimer Karlsen-Masur, Ursula Epting	Open Grid Forum GFD-225
"Usage Record – Format Recommendation" A. Cristofori (ed), J. K. Nilsen (ed), J. Gordon, M. Jones, J. A. Kennedy, R. Müller-Pfefferkorn	Open Grid Forum GFD-204
"Grid Certificate Profile" Michael Helm, Jens Jensen, Milan Sova, Scott Rea, Reimer Karlsen-Masur, Ursula Epting, Mike Jones. (March 2008)	Open Grid Forum GFD-125
"A Gap Analysis of Current LoA Definitions vs LoA Requirements in eScience/Grid Context" M.A.S. Jones, A. Nenadic	Open Grid Forum Research Group Draft

INVITED TALKS

Panel member LoA session at the the 3 rd International Symposium on Information Assurance and Security (Aug 2007)
Lecture on Grid Security at the XtremOS Training day: VO management and experience with Grid systems (Feb 2007)
Panel member at the Federated Identity Management Workshop at the 19 th Open Grid Forum (Feb 2007)
Seminar on VOMS for GridPP and the National Grid Service, via Access Grid (Oct 2006)
Presentation on Access, Authentication and Accounting at the eSocial Science All-hands Meeting (Jul 2004)
Talk at the Linking Data: understanding the past and looking into the future (May 2004)
Lecture on Globus Level 2 Grid Security at National Centre for eScience (Apr 2004)

TEACHING

Globus 2 / Level 2 Grid connection training course	National eScience Centre	Apr 2004 (residential)
Globus 2 / Level 2 Grid connection training course	National eScience Centre	Jan 2004 (residential)
Mechanics & Fluids Problem Class Tutor	The University of Liverpool	Academic year 2000
Orthoptics Laboratory Demonstrator	The University of Liverpool	Academic year 2000
1st & 2nd Year Physics Laboratory Demonstrator	The University of Liverpool	Academic years 1997, 1999
Computational Physics Laboratory Assistant	The University of Manchester	Academic year 1996
Technological Physics Laboratory Assistant	The University of Manchester	Academic year 1996

MISCELLANEOUS CONFERENCES

Networkshop 43 44, DigiFest 2015, ISGC2015, TNC2013, IAS07, CHEP04, HPDC11 ,6 UK eScience All-hands Meetings, UK eSocial Science All-hands Meetings, 25 OGF/GGF, 7 GridPP meetings, 4 SuperComputing Conferences (2 via AccessGrid), 2 H1UK Collaboration meetings, 6 IOP HEPP Congresses, DIS2000, UKUUG Spring 2007, various workshops at the NeSC.



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PROFESSIONAL MEMBERSHIPS

The Institute of Physics (IoP)	Member
The Institute of Electrical and Electronic Engineers (IEEE)	Member

EXTRA CURRICULA

Piano, Snowboarding, Magic the Gathering, Badminton, Golf, Board Games, Digital Photography, Cooking, Various Technology, 中文, 普通话

BIOGRAPHY

Dr Mike Jones manages and maintains a large portion of the cloud computing estate for [Jisc](#); he also manages a small portion of on-premise services. In 2014/5 he successfully orchestrated the migration of ageing [Mimas](#) physical and virtual IT infrastructure and service offerings on to various cloud platforms. This was performed during [Jisc's](#) acquisition of the [Mimas](#) from the University of Manchester.

He is currently responsible for the externally facing IT infrastructure particular to [Jisc's](#) *Digital Resources* (an amalgamation of the former [Mimas](#) centre of expertise and [Jisc Collections Ltd](#)) and *Digital Futures* (primarily responsible for innovation) departments. [Jisc](#) itself is responsible for the maintenance and delivery of national IT infrastructure and online resources used by the UK higher and further education sector.

Day-to-day Dr Jones managed second line and tertiary support for IT systems within two externally focussed sections of [Jisc](#) and is co-opted onto various projects across the whole organisation. He maintains Linux and Windows platforms, occasionally delving deeply into a service's application layer; occasionally working at the network layers for obscure use cases. He currently manages a small team with one direct report and a number through liaison/matrix management. He has managed larger teams on the past. In addition to technical requirements he has been charged with managing and obtaining software licences and responding to licensing audits for services and infrastructure within his remit.

He has been a member of various academic and research computing service departments at the University of Manchester since 2001. Initially responsible for providing grid computing support there and to the UK's Supercomputing Service: the Computing Services for Academic Research [[CSAR](#)], and having managed the Grid Developments Team, before taking on responsibility for the computing infrastructure for the UK's [Mimas](#) services.

He specialises in identity management and grid/cloud security, having worked on various security and AAA (Authentication, Authorisation and Accounting) projects viz. User-Friendly Security Solutions for Grid Environments [[UF-security](#)], E-infrastructure Security: authentication Levels of Assurance [[ES-LoA](#)], Shibboleth Enabled Bridge to Access the National Grid Service [[SHEBANGS](#)], Akenti Access to Zetoc [[A2Z](#)], Evaluation of the Community Authorisation Server [[CAS-eval](#)] and the e-Social Science demonstrator project Seamless Access to Multiple Datasets [[SAMD](#)] (where he developed a plug-in module to provide GSI (RFC 3820) support into a standard Apache Web server).

He also works closely with the [UK eScience Certification Authority](#) and managed the [University of Manchester Registration Authority](#). He developed and delivered the security component of the Grid Support Centre's Globus Toolkit training course.

He has represented the North West eScience Centre [[ESNW](#)] on the UK Grid Engineering Task Force from 2001, helped form the Level 2 Grid and he worked with the National Grid Service [[NGS](#)] from its inception in 2004 to its closure 2012 where he was responsible for the deployment and operation of the Virtual Organisation Membership Service (VOMS) for both the [NGS](#) and [GridPP](#). He was co-investigator on the Shibboleth Access to Resources on the National Grid Service [[SARoNGS](#)], a project which emerged from the successful [SHEBANGS](#) and [ShibGrid](#) projects of 2006/7. In early 2008 he joined the Meeting the Design Challenges of nano-CMOS Electronics project [[NanoCMOS](#)] as Manchester's eScience co-investigator, a project which—on the eScience front—tackled demanding issues such as security, file distribution, metadata, and large scale computing.

He is actively involved in the national and global grid communities, having participated in all [UK eScience All Hands Meetings](#). He regularly attends and contributes to the standards track within the Open Grid Forum [OGF](#) chairing three working groups, and can be found from time to time participating in International Grid Trust Federation [[IGFT](#)] meetings. Also interested in grid file systems, in 2005 he completed his PhD in grid computing within particle physics specialising on [the use of AFS within such grids](#). He then worked on the [GRENADE](#) project bringing GridFTP into the KDE desktop.