



MICHAEL ANGUS SCOTT JONES

BSc MSc PhD MinstP

PERSONAL DETAILS

Home Address	30 Redruth Street, Manchester, M14 7PX, UK
Telephone	+44 7779 128 304
email	dr.mike.jones@gmail.com
Web	mike-jones.uk
Date of birth	1975-03-25
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)	
G.C.E. 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 License	

EMPLOYMENT

Jisc August 2014 to August 2018 [†]	Head of Infrastructure Senior Infrastructure Architect Service Delivery Infrastructure Manager
The University of Manchester September 2001 to July 2017. 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 years 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

[†] Early retirement on 31 August 2018. (See [BIOGRAPHY[†]](#) for more detail.)



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HONORARY POSITIONS

The University of Manchester Faculty of Humanities, August 2014 to July 2017	Honorary MIMAS Senior Development Officer
The University of Manchester School of Physics and Astronomy, May 2008 to Nov 2012	Honorary Research Fellow

POSITIONS OF RESPONSIBILITY

Member of the UK Access Management Federation Technical Advisory Group	2013 – 2015
Chair of the CA-ops working group at the OGF	2012 – 2017
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	architect, product owner	Jisc	2016 – 2018
Jisc Historic Books now Historical Texts	operations, consultant	Jisc	2013 – 2018
Jisc Journal Archives now Journal Archives	operations, consultant	Jisc	2013 – 2018
eTekkatho	research & development	OSF	2013 – '15, '20
The National Grid Service (NGS)	operations, management	JISC	2004 – 2012
Meeting the design challenges of NanoCMOS Technology (NanoCMOS)	eScience co-investigator	EPSRC, industry	2008 – 2011
Shibboleth Access to Resources on the NGS (SARoNGS)	co-investigator, consultant	JISC	2008 – 2012
CritterVRE	research & development	JISC	2010
Identity & Access Mgmt. using Social Networking Tech.	research & development	JISC	2010
User Friendly Security Solutions for Grid Environments	research & development	EPSRC	2007 – 2010
Grid Engineering Task Force	member	EPSRC	2001 – 2008
eScience Infrastructure Levels of Assurance (ES-LoA)	research & development	JISC	2006 – 2007
Shibboleth Enabled Bridge to Access the NGS (SHEBANGS)	architect	JISC	2006 – 2007
Grid Enabled Desktop Environment (GRENADE)	research & development	EPSRC, SGI	2004 – 2005
OGSA Testbed	research & development	EPSRC	2003 – 2004
Akenti Access to Zetoc (A2Z)	research & development	JISC	2002 – 2004
CAS Evaluation Project	research & development	JISC	2002 – 2003
Seamless Access to Multiple Datasets (SAMd)	architect	ESRC, DTI	2002
GridPP, GridPP 2, BaBarGrid	research & development	PPARC	2001 – 2005
H1 Forward Tracking Detector online monitoring	developer	PPARC	1998 – 2000



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AWARDS

Best Women's Beard at the Jorvik Viking Festival 2020

I crocheted the beard that won the award. It was modelled by my sister-in-law.

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."

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."

Duke of Edinburgh Award: Bronze, Silver and Gold

School Prizes for physics, choir and services to the school

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 The University of Liverpool	DESY, Hamburg
	Sep 1996 – 1997	HEPP, Department of Physics & Astronomy The University of Manchester	
Undergraduate Physics + Technological Physics	Sep 1993 – Jul 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		
Professional Training	Jul 2017	Advanced Architecting On AWS	
	Jul 2017	Architecting On AWS	
Online	Udemy, edX, ChinesePod, Duolingo		

TECHNICAL SKILLS

What follows is a non-exhaustive list of languages, tools, APIs and software that have been used during various projects.

Programming	C, C++, Fortran 77, Java, JavaScript, Perl, PHP, Postscript, Python, Shell Scripting
System Administration	GNU/Linux, IRIX, MS Windows, Solaris
Grid Middleware	AccessGrid, Visimeet, gLite, Globus toolkit, GridSite, SRB, Sun Grid Engine, UNICORE
Cloud Middleware	AWS (Console, API), Azure (Console), GoogleDocs (API), Salesforce
Authorisation Software	Akenti, Kerberos, OpenCA, PERMIS, Shibboleth, VOMS, CAS
Databases	PostgreSQL, MySQL, MariaDB, Oracle
Miscellaneous	Apache, Blender, FreeCAD, GIMP, Imagemagick, Inkscape, jq, Kdenlive, L ^A T _E X, mapbox, MediaWiki, OpenStreetMap, SynFig, Wordpress, XMLstarlet, Zoom, ...

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

2009

"Interoperation of world-wide production e-Science infrastructures"
Riedel, M. et. al. [Grid Interoperation Now Community Group of the Open Grid Forum] Concurrency Computat.: Pract.
Exper.; **21(8)**:961–990.

2006

"GridPP: Development of the UK computing Grid for particle physics"
P. J. W. Faulkner et al. [GridPP Collaboration] J. Phys. G **32**, N1-N20

2004

"Forward π^0 production and associated transverse energy flow in deep-inelastic scattering at HERA"
A. Aktas et al. [H1 Collaboration] Eur. Phys. J. C **36**, 441

2003

"Diffractive photoproduction of J/ψ mesons with large momentum transfer at HERA"
A. Aktas et al. [H1 Collaboration] Phys. Lett. **B 568**, 205

"Search for new physics in e^+e^-q contact interactions at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 568**, 35

"Measurement and QCD analysis of neutral and charged current cross sections at HERA"
C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 30**, 1

"Measurement of inclusive jet cross sections in photoproduction at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 542**, 193

"Isolated electrons and muons in events with missing transverse momentum at HERA"
V. Andreev et al. [H1 Collaboration] Phys. Lett. **B 561**, 241

2002

"Search for excited electrons at HERA" C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 548**, 35

"Search for odderon-induced contributions to exclusive π^0 photoproduction at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 544**, 35

"Measurement of inclusive jet cross-sections in deep-inelastic $e p$ scattering at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 542**, 193

"Diffractive photoproduction of $\psi(2S)$ mesons at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 541**, 251

"Search for QCD instanton-induced processes in deep-inelastic scattering at HERA"
C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 25**, 495

"Inelastic lepton production of J/ψ mesons at HERA" C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 25**, 41

"Inelastic photoproduction of J/ψ mesons at HERA" C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 25**, 25

"A measurement of the t dependence of the helicity structure of diffractive ρ meson
electroproduction at HERA" C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 539**, 25

"Energy flow and rapidity gaps between jets in photoproduction at HERA"
C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 24**, 517

"Measurement of dijet cross sections in photoproduction at HERA"
C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 25**, 13

"Measurement of dijet electroproduction at small jet separation"
C. Adloff et al. [H1 Collaboration] Eur. Phys. J. **C 24**, 33

"Search for excited neutrinos at HERA" C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 525**, 9

"Measurement of $D^{*+/-}$ meson production and $F_2(c)$ in deep inelastic scattering at HERA"
C. Adloff et al. [H1 Collaboration] Phys. Lett. **B 528**, 199



2001

“D*+- meson production in deep-inelastic diffractive interactions at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 520 , 191
“On the rise of the proton structure function F2 towards low x” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 520 , 183
“A search for leptoquark bosons in e- p collisions at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 523 , 234
“Measurement of deeply virtual Compton scattering at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 517 , 47
“Three-jet production in deep-inelastic scattering at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 515 , 17
“Photoproduction with a leading proton at HERA” C. Adloff et al. [H1 Collaboration]	Nucl. Phys. B 619 , 3
“Searches at HERA for squarks in R-parity violating supersymmetry” C. Adloff et al. [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 et al. [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 et al. [H1 Collaboration]	Eur. Phys. J. C 19 , 269
“Diffractive jet production in deep-inelastic e+ p collisions at HERA” C. Adloff et al. [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 et al. [H1 Collaboration]	Eur. Phys. J. C 19 , 289
“Dijet production in charged and neutral current e+ p interactions at high Q**2” C. Adloff et al. [H1 Collaboration]	Eur. Phys. J. C 19 , 429

2000

“A search for excited fermions at HERA” C. Adloff et al. [H1 Collaboration]	Eur. Phys. J. C 17 , 567
“Inclusive photoproduction of neutral pions in the photon hemisphere at HERA” C. Adloff et al. [H1 Collaboration]	Eur. Phys. J. C 18 , 293
“Measurement of elastic electroproduction of Phi mesons at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 483 , 360
“Elastic photoproduction of J/psi and Upsilon mesons at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 483 , 23
“Measurement of di-jet cross-sections in photoproduction and photon structure” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 483 , 36
“Search for compositeness, leptoquarks and large extra dimensions in e q contact interactions at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 479 , 358
“Investigation of power corrections to event shape variables measured in deep-inelastic scattering” C. Adloff et al. [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 et al. [H1 Collaboration]	Eur. Phys. J. C 13 , 609
“Measurements of transverse energy flow in deep inelastic-scattering at HERA” C. Adloff et al. [H1 Collaboration]	Eur. Phys. J. C 12 , 595
“Elastic electroproduction of rho mesons at HERA” C. Adloff et al. [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 et al. [H1 Collaboration]	Eur. Phys. J. C 13 , 397

1999

“Measurement of open beauty production at HERA” C. Adloff et al. [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 et al. [H1 Collaboration]	Eur. Phys. J. C 11 , 447 Erratum C 14 , 553 (2000)
“Forward pi0 meson production at HERA” C. Adloff et al. [H1 Collaboration]	Phys. Lett. B 462 , 440



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"Measurement of D* meson cross sections at HERA and determination of the gluon density in the proton using NLO QCD" C. Adloff et al. [H1 Collaboration]	Nucl. Phys. B 545 , 21
"Charmonium production in deep inelastic scattering at HERA" C. Adloff et al. [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. Sci. 162 EGICF12, 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, Feb 2010, Innsbruck, Austria ACTA Press ISBN 978-0-8898-6834-2
"The SARoNGS Project: Providing Web Processing Services and Federated Access on the National Grid Service to the Landmap Service" Amer Alroichdi, Andrew Rowley, Anja Le Blanc, Mike Jones, Gail Millin, James Schumm and Kamie Kitmitto	Proc. RSPSoC 2009 Sep 2009, Leicester, UK, ISBN 978-16-1567-583-8 pp. 509–505.
"FOAF+TLS: RESTful Authentication for the Social Web" Story, Henry; Harbulot, Bruno; Jacobi, Ian; Jones, Mike	Proc. SPOT2009, Jun 2009, Heraklion, Greece, ISSN 1613-0073
"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. 5th Int. Conf. IAS, 2, Aug 2009, Xi'An, China. IEEE ISBN 978-0-7695-3744-3 pp. 338–341
"Integrating security solutions to support nanoCMOS electronics research" Sinnott, R O; Bayliss, C; Doherty, T; Martin, D; Millar, C; Stewart, G; Watt, J; Asenov, A; Roy, G; Roy, S; Davenhall, C; Harbulot, B; Jones, M.	Proc. ISPA-08 Dec 2008, Sydney, Australia, IEEE ISBN 978-0-7695-3471-8 pp. 71–79.
"Secure, Performance-Oriented Data Management for nanoCMOS Electronics" Sinnott, R O; Bayliss, C; Davenhall, C; Harbulot, B; Jones, M.; Millar, C; Roy, G; Roy, S; Stewart, G; Watt, J; Asenov, A.	Proc. IEEE Fourth International Conference on eScience Dec 2008, Indianapolis, Indiana, USA, ISBN 978-0-7695-3535-7 pp. 87–94.
"SHEBANGS: Shibboleth Enabled Bridge to Access the National Grid Service" M.A.S. Jones, S.M. Pickles, A. Nenadic, N. Zhang	Proc. UK eScience AHM, Sep 07 Nottingham, UK. EPSRC ISBN 978-0-9553988-3-4, pp 702–709
"VOMS deployment in GridPP and NGS" S. Dolgobrodov, A. Forti, M. Jones	Proc. UK eScience AHM, Sep 2006, Nottingham, UK. EPSRC ISBN 0-9553988-0-0, pp 497–501
"AliBaBa: A Heterogeneous Grid-Based Job Submission System Used By The BaBar Experiment" M.A.S. Jones, R.J. Barlow, A. Forti, A. McNab	Proc. CHEP'04, 2, Interlaken, Switzerland, Sep 2004. CERN ISBN 92-9083-245-2 pp. 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.	Proc. Case Studies on Grid Applications Workshop; GGF 10, Mar 2004, Berlin Germany
"AliBaBa: Running BaBar jobs on the grid using gsub" M.A.S Jones, Roger J. Barlow, Alessandra Fort	Proc. UK eScience AHM, Sep 2004, Nottingham, UK. EPSRC ISBN 1-904425-21-6, pp 849–855
"Akenti Access to Zetoc" M.A.S. Jones, A. Apps, W.T. Hewitt, R. MacIntyre, A. Sanders, A. Weeks	Proc. UK eScience AHM, Sep 2003, Nottingham, UK. EPSRC, ISBN 1-904425-11-9 pp 227–229
"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	Proc. UK eScience AHM, Sep 2003, Nottingham, UK. EPSRC, ISBN 1-904425-11-9 pp 234–237
"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	Proc. ESRC Research Methods Workshop on Combining Data Dec 2002, Manchester, UK
"Seamless Access to Multiple Datasets – 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	Proc. 1st UK eScience AHM, Sep 2002, Sheffield, UK; pp. 47–48
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 Document; GWD-R.225 (July 2016)
"Usage Record – Format Recommendation" M. Jones, J. A. Kennedy, R. Müller-Pfefferkorn	Open Grid Forum Document; GFD-R-P.204 (January 2013)
"Grid Certificate Profile" Michael Helm, Jens Jensen, Milan Sova, Scott Rea, Reimer Karlsen-Masur, Ursula Epting, Mike Jones.	Open Grid Forum Document; GFD-C.125 (March 2008)
"A Gap Analysis of Current LoA Definitions vs LoA Requirements in eScience/Grid Context" Alexandra Nenadic, Ning Zhang and Mike Jones	Open Grid Forum LoA-RG DRAFT (April 2008)
TECHNICAL REPORTS	
"Experiences with AWS and Shibboleth" Mike Jones	Jisc AWS Community (Sep 2014)
"The NGS Accounting System (Draft Paper)" Mike Jones	DRAFT 10 April 2013



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PUBLIC SPEAKING

TALKS

- A test of Character; ASCII stupid question, get a stupid ANSI!* at Jisc TEDx (Nov 2017)
- Migrating national services to the Cloud at Networkshop43 (April 2015)
- Jisc Using Cloud Services | *Jisc told Mimas to use cloud; what happened next was amazing...* at Digifest (Mar 2015)
- Review of usage accounting and charge models in the UK NGS at the EGI Community Forum (April 2013)
- Extremely Brief Guide to Grid at the Linking Data: understanding the past and looking into the future (May 2004)
- Access, Authentication and Accounting at the eSocial Science All-hands Meeting (Jul 2004)

LECTURES

- Grid Security at the XtremOS Training day: VO management and experience with Grid systems (Feb 2007)
- Globus Level 2 Grid Security at National Centre for eScience (Apr 2004)

SEMINARS

- Shibboleth Access to Resources on the NGS part of the NGS Seminar Series (Feb 2012)
- VOMS for GridPP and the National Grid Service, via Access Grid (Oct 2006)

PANELS

- LoA session at the the 3rd International Symposium on Information Assurance and Security (Aug 2007)
- Federated Identity Management Workshop at the 19th Open Grid Forum (Feb 2007)

TEACHING

Globus 2 / Level 2 Grid connection training course	National eScience Centre	April 2004
Globus 2 / Level 2 Grid connection training course	National eScience Centre	January 2004
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

Since retirement: Scouts at 23rd Manchester and Code Club at a Local Primary School.

MISCELLANEOUS CONFERENCES

QCE21, Networkshop 43 44, Digifest 2015, ISGC2015, TNC2013, IAS07, CHEP04, HPDC11, 6 UK eScience All-hands meetings, UK eSocial Science All-hands meeting, 25 OGF/GGF, 7 GridPP meetings, 4 SuperComputing conferences (2 via SC Global), 2 H1UK Collaboration meetings, 6 IOP HEPP Congresses, DIS2000, UKUUG Spring 2007, various Workshops at NeSC

PROFESSIONAL MEMBERSHIPS

Society of Research Software Engineering (RSE)	2019 – present
Research Software Engineers Association	2014 – 2019
The Institute of Physics (IoP)	1993 – present
The Institute of Electrical and Electronic Engineers (IEEE)	2002 – present
IEEE Computer Society	2002 – present

EXTRA CURRICULA

From time to time; in no particular order

Scout Leader, Piano, Snowboarding, Magic the Gathering, Badminton, Golf, Board Games, Digital Photography, Hovercraft Racing, Cooking, Various Technologies, Internet of Things, Martial Arts, 中文和普通话。



BIOGRAPHY

Dr Mike Jones was appointed Head of Infrastructure at [Jisc](#) in Summer 2017 taking charge of the IT strategy and day-to-day IT operations within the organisation. This extended from his previous role where he managed and maintained a large portion of the cloud computing estate and also a small portion of on-premise services. When Dr Jones retired[‡] he was head of a 15 strong team covering [Jisc](#)'s internal facing IT estate and supporting externally facing services where necessary.

He began his career 16 years earlier when he was appointed to a PDRA position within the [CSAR](#) team, part of [MRCCS](#) a research wing of [Manchester Computing](#) the computing services department at [The University of Manchester](#). His duties involved building, adapting and installing grid middleware onto [CSAR](#)'s HPC facilities and working with research groups to enable and support the adoption of these tools. During this time he completed [his PhD](#) exploring the use of the distributed file system [AFS](#) in Grid Computing based particle physics analysis.

As Grid Computing became more popular the National Grid Service [[NGS](#)], Grid Engineering Task Force [[GETF](#)] and Grid Support Centre [[GSC](#)] were formed. Representing the local eScience regional centre [[ESNW](#)] at the [Grid Engineering Task Force](#), he helped form the [Level 2 Grid](#). Following this he was co-opted onto the [NGS](#) operations group representing [CSAR](#) and became part of the UK wide team delivering and supporting their core activities. His main contributions were in the support of the infrastructure and use of tools, where he took a particular interest in the field of Grid Security, Authentication and Authorisation. He developed and delivered the security component of the [Grid Support Centre](#)'s [Globus Toolkit](#) training course going on to run the Virtual Organisation Membership Service [[VOMS](#)] for both the [NGS](#) and [GridPP](#).

Identity Management was a strong theme that ran throughout his career. He worked on various grid/cloud security and AAA (Authentication, Authorisation and Accounting) projects viz. Identity & Access Management using Social Networking Technology. [[FOAFSSLShib](#)], 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 plugin module to provide GSI ([RFC 3820](#)) support into a standard Apache Web server). He also worked closely with the [UK eScience Certification Authority](#) and managed the University of Manchester Registration Authority.

It wasn't always about Grid Security though, Dr Jones was interested in many aspects of grid computing: tweaking GridFTP on the HPC resources to enable control and data channels on different network interfaces, allowing 3rd party data transfer over dedicated links; writing an LDAP (GRIS/GIIS/BDII) query driven testing suites to check functioning middleware; driving the [AccessGrid](#) node for e.g. [SC Global](#), developing code for it and even streaming music and dance productions, even weddings; contributing to the world's most heterogeneous grid application with a Sony [Playstation2](#); writing desktop tools to emulate drag-and-drop using grid protocols for [GRENADE](#); programmatically harvesting hashtag data from twitter to enrich metadata stored in the [CREW VRE](#) as part of [CrittterVRE](#).

In 2007, taking on responsibility for Research Computing's Grid Development's Team and four direct reports, he joined the [NGS](#) Management Board. He co-investigated Shibboleth Access to Resources on the National Grid Service [[SARoNGS](#)], a project combining Grid Computing, Security and various application areas. [SARoNGS](#) emerged from the successful [SHEBANGS](#) and [ShibGrid](#) projects of 2006/7, enabled the processing of data on grid resources using Shibboleth authentication and demonstrated the use of [NGS](#) resources, to process Geospatial data by grid enabling an OGC compliant WPS portal, and as another example to enact Taverna Workflows via a modified version of the [MyExperiment](#) portal [[Video](#)]. In early 2008 he took on the role of eScience co-investigator for the Meeting the Design Challenges of nano-CMOS Electronics project [[NanoCMOS](#)], a project which—on the eScience front—tackled demanding issues such as security, file distribution, metadata, and large scale computing. Here he was able to bring to the table his research and expertise in the AFS, Grid Computing and the [Ganga](#) interface.

Dr Jones went on to join [Mimas](#) in 2013 providing cross service IT support. [Mimas](#) hosted various services for the UK higher and further education communities ranging from library and journal catalogues to geospatial and census data services. Many of these were hosted on a range of complex architectures: VMs, Windows clusters and high availability HPC facilities. Shortly after joining [Mimas](#) it was acquired by [Jisc](#). During the calving process Dr Jones was asked to draw up plans and coordinate the migration of all [Mimas](#) services onto the Cloud. This was completed by the time the group had moved to new premises.

Throughout his career he was actively involved in the national and global grid communities, having participated in all UK eScience All Hands Meetings. He regularly attended and contributed to the standards track within the Open Grid Forum [[OGF](#)] chairing three working groups, and could be found from time to time participating in International Grid Trust Federation [[IGFT](#)] meetings.

[‡]At the end of 2017 Dr Jones was diagnosed with bowel cancer. Following an operation and a course of adjuvant chemotherapy he returned to work. Six months later the cancer had spread. He was given a terminal diagnosis with a poor prognosis. He retired on grounds of ill health.

After nearly a year of chemotherapy he moved onto a novel treatment based on immunotherapy. Dr Jones had a "very good" response to this, and has now been stable for over two years. He is now considering a phased return to work.