

CURRICULUM VITAE JULIA MARY YEOMANS

Address: Rudolf Peierls Centre for Theoretical Physics, 1 Keble Road, Oxford OX1 3NP

Telephone: 44 (0)1865 273992 **Fax:** 44 (0)1865 273947

Email: j.yeomans1@physics.ox.ac.uk

Home page: <http://www.2.physics.ox.ac.uk/contacts/people/yeomans>

Nationality: British. **Family:** Married, 4 daughters

Qualifications:

Diploma, Teaching and Learning in Higher Education (Oxford University) 2000.

D. Phil. Thesis, *Critical Phenomena of Disordered Systems* (Oxford University) 1979.

B.A. Physics, First class honours (Oxford University), 1976.

Positions held:

2002 – Professor of Physics, University of Oxford
1998 – 02 Reader in Physics, University of Oxford
1995 – 98 University Lecturer, University of Oxford
1983 – Pauline Chan Fellow and Tutor in Physics, St. Hilda's College, Oxford
1981 – 83 Lecturer, Department of Physics, Southampton University
1979 – 81 Postdoctoral Research Associate, Cornell University, USA

Distinctions:

Elected Fellow of the Royal Society 2013

3rd EPJE-de Gennes Prize lecture 2013

ERC Advanced Grant, 2012-17

University of Oxford Teaching Award, 2008

Inaugural CMMS Distinguished Lecturer, University of Pittsburgh, 2007

EPSRC Advanced Fellowship, 1990-95

Scott Prize, Oxford University, 1976

Visiting positions:

2014 Kavli Institute for Theoretical Physics, Santa Barbara, USA
2013 Visiting Fellowship, Newton Institute, Cambridge
2011 Visiting Professor, Enhanced Education Programme, University of Kyushu, Japan
1995 Visiting Professor, University of Padua, Italy
1992 Visiting Professor, Catholic University of Leuven

Recent advisory appointments

2015 - 16 Rapporteur, Max Planck Research Fields Evaluation
2016 – External Examiner, University of Cambridge
2015 SAAC review of Soft Matter, Weizmann Institute
2015 - Advisory Board, International Iberian Nanotechnology Laboratory
2015 - Vice Chair, IUPAP Commission on Statistical Physics
2015 - CECAM, Scientific Advisory Committee
2013 - University of Padua, Evaluation Committee
2013 - 15 Nat. Sci. & Eng. Research Council of Canada (NSERC) Physics Evaluation Group
2012 - Nordita Scientific Program Committee

2012 Board of Electors, Professorship of Materials Science, Cambridge
2012 Audit Committee, Ecole Polytechnique Federale de Lausanne
2012 Chair, Panel V, University of Tampere Research Assessment Exercise
2011 -15 ERC Starting/Consolodator Grants Evaluation Panel

Invited/plenary lectures at major international meetings:

Sept 2015 European conference on liquid crystals, Manchester
Jun 2015 Gordon Research Conference, Liquid crystals, Maine
Jan 2015 Gordon Conference, Micro and Nanoscale phase change, Texas
July 2014 Plenary lecture, Liquids 2014, Lisbon
Feb 2014 Keynote lecture, Dutch National Meeting for chemistry of physics and materials
Sept 2013 Plenary lecture, 3rd International Soft Matter Conference, Rome.
Aug 2013 Gordon Conference, Soft Condensed Matter, New England.
July 2013 Statphys 25, Seoul, Republic of Korea.
Nov 2012 Materials Research Society Fall Meeting, Boston.
Jan 2011 Plenary lecture, XL Winter Meeting on Statistical Physics, Mexico.
Sept 2010 Plenary lecture, 23rd General Conference EPS Condensed Matter Division, Poland.
July 2010 23rd International Liquid Crystal Conference, Poland.
June 2009 Emergence in Chemical Systems, Alaska.
June 2009 Gordon Conference, Liquid Crystals, New England.
Dec 2008 100th Statistical Mechanics Conference, Rutgers, USA.
Sept 2007 Conference on Computational Physics, Brussels.
Sept 2006 ESF Research Conference, Complex Fluid Interfaces, Austria.
Apr 2006 Multiscale Modeling: Electrons, Molecules and (Bio)materials, Royal Netherlands
Academy of Arts and Sciences, Amsterdam.
Sept 2005 Fundamental Problems in Statistical Physics XI, Belgium.
July 2004 Statphys 22, Bangalore, India.
Sept 2001 Conference on Computational Physics, Germany.
Aug 2001 Gordon Conference, Liquids, New England.
Mar 1999 Division of Computational Physics, Centennial APS Meeting, Atlanta.
Aug 1996 Gordon Conference, Modelling Flow in Permeable Media, New England.

Other recent invited lectures at international meetings:

Feb 2016 MECO 41, Vienna
Jan 2016 Understanding the Physics of Life, London
Dec 2015 International workshop: Challenges in statistical mechanics, London
Nov 2015 Symposium on Biological Physics and Soft Matter, Weizmann Inst., Israel
Oct 2015 Women in applied maths and soft matter physics, Mainz
Oct 2015 8th International liquid crystal elastomer conference, Erice, Italy
Sept 2015 Italian national conference on condensed matter physics, Palermo
Sept 2015 Distruc, Heraklion, Crete
July 2015 Soft matter self assembly, Varenna summer school
May 2015 Physics of active matter, Suxhou, China
May 2015 Connecting microfluidics with oceanography, Okinawa, Japan
Mar 2015 Geilo school, Cooperative Particles, Norway.
Feb 2015 Complex liquids at structured surfaces, Berlin.
Oct 2014 Venice meeting on Fluctuations in Small Complex Systems.
Sept 2014 Physics meets Biology, Oxford.

July 2014 Discrete simulation of fluid dynamics, Paris.
 July 2014 From molecules to systems, Physics of Life summer school, Lancaster.
 June 2014 Summer School on Active Systems, Korea
 Mar 2014 555th Heraeus Seminar, Bonn
 Jan 2014 Journees de Physique Statistique, Paris
 Dec 2013 Materials Research Society Fall Meeting, Boston
 Nov 2013 TRANSCEND, Guildford
 Sept 2013 Diffuse Interface Models, DIMO 2013, Italy
 June 2013 Liquid crystals, Cambridge
 Mar 2013 Geilo School, Soft Matter Confinement, Norway
 Feb 2013 Wetting and Capillarity in Complex Systems, Dresden.
 Oct 2012 Fisher Symposium, Maryland.
 Oct 2012 Plenary, 1st International Conference on Numerical Physics, Oran, Algeria.
 Oct 2012 Complex Liquids at Structured Surfaces, Lisbon.
 Oct 2012 Fluctuations in Small Complex Systems, Venice.
 Sept 2012 Nonequilibrium Collective Dynamics, Potsdam.
 Mar 2012 8th Zsigmondy Colloquium, Darmstadt.
 Feb 2012 Phase Transition Dynamics in Soft Matter, Kyoto.

57 invited lectures in the years 2003 – 2011

Recent seminars and colloquia

2016: Durham, Oxford University PhysSoc, Ljubljana
 2015: University College, London, physics colloquium; UCL chemistry; Warwick; Bath; Gottingen
 2014: Royal Holloway; Open University; Institut Curie; KITP; Cambridge; Twente; Rutherford-Appleton Lab; Frohlich colloquium; Liverpool; Queen Mary, University of London.
 2013: Wuhan, China; MIT colloquium; colloquium, University of Surrey; University of Coventry, University of Liverpool colloquium.
 2012: Amsterdam; Birmingham; Bristol; Durham; Imperial College; University of Tokyo.

Recent major grants (as PI or co-PI):

2016-18 EU Marie Curie: GelSwimming, 2 year PDRA (Andreas Zoettl)
 2015-18 HORIZON 2020 ITN DISTRUC (co-PI)
 2015-18 HORIZON 2020, FETOPEN: ABIOMATER €600K (Oxford node)
 2014-16 EMBO Fellowship, 2 year PDRA (Tyler Shendruk)
 2012-17 ERC Advanced Grant, €1.5M
 2010-12 EU Marie Curie: Microenvs, 2 year PDRA (Rodrigo Ledesma)
 2008-12 EU Marie Curie: Actoids, 2 year PDRA (Miha Ravnik)
 2007-10 Behaviour of Fluids at the Microscale, ONR, USA \$321K
 2006-09 Oxford Condensed Matter Theory Programme Grant, EPSRC £1.85M
 2005-08 INFLUS: EU STREP, Interfacial Phenomena in Materials, €103K
 2003-04 Modelling lubrication at mesoscopic length scales, ONR, USA \$240K

Recent Research Councils etc. service:

2016 - Royal Society-Leverhulme Trust Senior Research Fellowships Panel
 2015 - Royal Society Summer Science Exhibition Committee
 2014 - Institute of Physics, Awards Committee
 2013- Royal Society, Newton Advanced Fellowships Committee

2011- Royal Society, Sectional Committee 2
2010- IUPAP Commission C3 (Statistical Physics)
2009-12 Council, European Physical Society
2008 Board member, EPS Division of Physics in the Life Sciences

Editorial appointments:

Editorial Board, Phil. Trans. A (2016--), Editor, Phys. Rev. E (2014--), Advisory Editor, Europhysics Letters (2006 – 09); Co-Editor, Europhysics Letters (2003 – 06); Editorial Board, Journal of Statistical Physics (2001 –); Editorial Board, Physica A (1999 – 01); Editorial Board, Journal of Physics A: Math. Gen. (1995 – 99); Editor, Cambridge Lecture Notes in Physics (1993 – 2003).

Conference organising:

Advisory Board, Fundamental Problems in Statistical Physics School (2016); Programme Committee, International Soft Matter Conference (2016); Organiser: Swimming and Complexity at Low Reynolds Number, Institute of Physics Topical Research Meeting (2012), Organising Committee: Playing Colloidal Mikado, Oxford (2009), Luxembourg (2010); Mesoscale Modelling for Complex Fluids and Flows, Oxford (2007); Mesoscopic Simulation of Liquids, CECAM, Lyons (1999); DSFD, Santa Fe (2000); Tokyo (1999, Chair); Oxford (1998). International Advisory Committee: Liquids (2017), CMD24, (2012), SigmaPhi (2008--), STATPHYS (2007--); Conference on Computational Physics (2007--); Computational Modelling and Simulation of Materials (2004).

Outreach:

2015 Institute of Physics, London and SE Branch lecture.
2015 Lecture, Wykeham Abbey School
2014 Chair, Think Physics Advisory Committee
2013 Institute of Physics, South-Central Branch lecture.
2012 Institute of Physics, Non-linear Physics Group Christmas lecture.
2009-11 Lead exhibitor, *Nature's Raincoats*, RS Summer Science Exhibition. Techfest, Mumbai; Oxfordshire Science Festival; Cheltenham Science Festival.
2008-11 Judging Panel: IoP Women in Physics Group Very Early Career Award.
2007,09,11 SET for Britain, Judge.
2006 Leader, UK delegation, 2nd IUPAP Conference, Women in Physics.
2006- Advisory Panel of the Institute of Physics Women in Physics Group.

Graduate supervision:

30 graduate students who have completed their D. Phil.; 4 current students.

Publications: ~ 250 papers, recent work available at:

<http://www2.physics.ox.ac.uk/contacts/people/yeomans>