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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

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

Distinctions:

Ehrenfest Colloquium, Leiden, 2017
Vice Chair, Gordon Conference on Complex Active and Adaptive Matter, California, 2017
Guest of Honor, 115th Statistical Physics Conference, Rutgers, 2016
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

Invited/plenary lectures at major international meetings:

Jun 2017 Gordon Conference, Microfluidics, Tuscany
Apr 2017 Materials Research Society Spring Meeting, Arizona
Jun 2016 Keynote lecture, 3rd international symposium on Micro- and Nanomachines, Hannover
Mar 2016 American Physical Society, March Meeting
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.
- Oct 2012 Plenary, 1st International Conference on Numerical Physics, Oran, Algeria.
- 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 S
- 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.

Invited lectures at schools:

- Mar 2017 Geilo school, Physics inspired by living matter, Norway.
- Aug 2016 Nonequilibrium statistical physics & active matter systems – school and workshop, Beijing
- July 2016 European Summer School on the Physics of Living Matter, Strasbourg
- July 2015 Soft matter self assembly, Varenna summer school
- Mar 2015 Geilo school, Cooperative Particles, Norway.
- July 2014 From molecules to systems, Physics of Life summer school, Lancaster.
- June 2014 Summer School on Active Systems, Korea
- Mar 2013 Geilo School, Soft Matter Confinement, Norway
- Sept 2005 Fundamental Problems in Statistical Physics XI, Belgium.

Other invited lectures at international meetings (last 5 years):

- July 2017 Workshop on new frontiers in colloid science, Birmingham
- July 2017 Biologically active fluids, Birmingham
- Mar 2017 Microswimmers, self-propelled particles and active matter, CECAM
- Jan 2017 COST: Flowing matter, Porto
- Oct 2016 PhysBio2016, Paris
- Oct 2016 International workshop on Soft and Complex Matter, Norwegian Academy of Science and Letters, Oslo
- Oct 2016 Fluctuations in small complex systems, Venice
- Apr 2016 From Cells to Organisms, Ascona, Switzerland
- 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
- May 2015 Physics of active matter, Suxhou, China
- May 2015 Connecting microfluidics with oceanography, Okinawa, Japan
- 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.

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
Feb 2013	Wetting and Capillarity in Complex Systems, Dresden.
Oct 2012	Fisher Symposium, Maryland.
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

2017: Computational Biology, Oxford; Curie Institute, Paris
 2016: Durham, Oxford University PhysSoc, Ljubljana, SIAM student chapter, Oxford; Stoner colloquium, Leeds
 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):

2017 - 19	Royal Society International Exchange (with Taiwan) 12K
2017 - 18	BBSRC Priming Food Partnerships: Modelling Digestion (Oxford PI) 78K
2017-19	HORIZON 2020 ITN LUBISS (Oxford PI)
2016-18	EU Marie Curie: GelSwimming, 2 year PDRA (Andreas Zoetl)
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 advisory appointments

2017	Chair, International Scientific Advisory Committee, SISSA
2015 –16	Rapporteur, Max Plank Research Fields Evaluation
2016 –	Scientific steering committee, Partnership for Advanced Computing in Europe
2016	CECAM: Appointment committee for Director
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/Consolidator Grants Evaluation Panel
- 2008 Academy of Finland, Computational Science Research Programme Panel
- 2008 Nordita, Professorial Appointment, International Expert
- 2008 Helsinki University, Professorial Appointment, International Expert
- 2007 University of Geneva, Professorial Appointment, International Expert

Learned Societies, etc. service:

- 2015 – 17 Chair, Royal Society Sectional Committee 2
- 2015 – Royal Society Awards Committee, Side A
- 2016 Chair, EPSRC Physical Sciences Prioritisation Panel
- 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 – Council, European Physical Society
- 2008 Board member, EPS Division of Physics in the Life Sciences
- 2007– Expert Evaluator Panel, EU FP7 Programme, Interface Modelling
- 2001 External advisor, EPSRC NTU Platform Grant (P.I. Prof. G. McHale)

Editorial appointments:

Editorial Board, *Phil. Trans. A* (2016–); Guest Editor, *Journal of Physics: Condensed Matter special issue Fluids at Structured Surfaces (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 –4 and 2015 –); 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:

Organiser: CECAM workshop on Cell and Tissue Mobility (2017); Session organiser: 19th IUPAB conference, Edinburgh (2017); 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:

- 2017 Lecture, Portsmouth and District Physical Society
- 2016 Institute of Physics, Berkshire, Branch lecture Merseyside, Manchester, Hereford and Worcester, Alderma
- 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.

University teaching and administration:

College: from 1983: Senior Physics Tutor at St Hilda's College, running a school of ~20 undergraduates. 6 hours per week tutorials, admissions, Governing Body, Tutorial Committee, Dean (3 years), Senior Tutor (1 year), Acting Tutor for Graduates (1 year), Finance Committee (3 years), Investment Committee (3 years), Academic Committee (3 years), Development Committee (3 years), many ad hoc minor committees.

Recent lecturing:

- 2015 – Fluids, Flows and Complexity, 16 lectures (year 3)
(nominated for the MPLS most acclaimed lecturer award)
- 2015 – Soft Matter Physics, 8 lectures (MMathPhys)
- 2015 – Topics in Soft and Active Matter Physics, reading course (MMathPhys)
- 2012 – 2014 Complex Numbers and Differential Equations, 10 lectures (year 1)
- 2009 – 2011 Electromagnetism, 20 lectures (year 2)
- 2004 – 2008 Calculus, 11 lectures (year 1)
- alternate years Soft Matter Physics, 8 lectures (graduate)

Recent committees:

- 2014,15 Recognition of Distinction Panel
- 2014 Chair, Physics and Philosophy Examiners
- 2012 – 2014 Physics Schools Examiner
- 2016 – Committee to review the third year syllabus
- 2014 – CL2 user panel
- 2010 – Higher Studies Fund
- 2010 – 13 Sub-departmental computing committee

External examining:

- 2015 – Physics Parts II and III, University of Cambridge
- 2012 – 14 Physics, University of Southampton
- 2009 – 11 Physics and Mathematical Physics, University of Warwick

Graduate supervision:

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