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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 1979.

B.A. Physics, First class honours & Scott prize 1976.

Positions held:

- 2023 – Chevron Chair Professor, IIT Madras
- 2020 – 23 Head of the Rudolf Peierls Centre for Theoretical Physics
- 2020 Simons Visiting Professor, Niels Bohr International Academy, University of Copenhagen
- 2019 – 20 Vice Principal, St. Hilda's College, Oxford
- 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
- 2002 – Professor of Physics, University of Oxford**
- 1998 – 02 Reader in Physics, University of Oxford
- 1995 Visiting Professor, University of Padua, Italy
- 1995 – 98 University Lecturer, University of Oxford
- 1992 Visiting Professor, Catholic University of Leuven
- 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:

- Appointed Officer of the Order of the British Empire (OBE), 2024
- ERC Advanced Grant (funded as Frontier Grant by the UK), 2024–29
- Dorothy Hodgkin Memorial Lecture, Somerville College, Oxford, 2023
- Raymond and Beverly Sackler Distinguished Lecture, Niels Bohr Institute, Copenhagen, 2023
- Honorary Fellowship, Somerville College, Oxford, 2022
- Aditi Simha Memorial Lecture, Bangalore, 2022
- Sam Edwards Medal and Prize, 2021
- Lennard Jones Prize and Lectureship, 2021
- Honorary Degree, University of Northumbria, 2019
- Annual Edward Delaval Lecture in Physics, Lincoln, 2019
- Chair, Gordon Conference on Complex Active and Adaptive Matter, California, 2019
- Professorial Distinction Award, Level 5, 2018
- Ehrenfest Colloquium, Leiden, 2017
- PS Narayanan Memorial Lecture, Department of Physics at IISc Bangalore, 2017
- Guest of Honour, 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

Selected recent advisory and committee appointments:

- 2023 – Jury, Blavatnik Awards for young scientists in the UK
- 2023 – Royal Society Sectional Committee 2
- 2023 External Member, W2 Professorship Appointment Committee, University of Oldenburg

2023	External Member, School of Physical Sciences Academic Career Pathway Committee, Cambridge
2022	Electoral Board, 1920 Professor of Physical Chemistry, Cambridge
2022 –	Swiss Advanced Grants Evaluation Panel
2020 –	Chair, Royal Society Research Appointment Panel A(iii)
2020–	British Liquid Crystal Society, Awards Committee
2020 – 21	International Jury, Austria Science Fund, 1,000 ideas programme
2020 –	Committee for Natural and Technical Sciences, Novo Nordisk Foundation
2019 –	Royal Society International Exchanges Committee
2019 – 20	Physical Sciences Panel, Hong Kong RAE
2018 –	Council, Royal Society
2018 –	Royal Society FLAIR Fellowship Panel
2017, 2018	Research Council of Norway Panel
2018	Professorial Evaluation Committee, University of Trondheim
2017, 2021	Chair, International Scientific Advisory Committee, SISSA, Italy
2016 – 18	Royal Society Leverhulme Trust Senior Research Fellowship Panel
2016 – 18	Scientific Steering Committee, Partnership for Advanced Computing in Europe
2016	Search Committee, CECAM Director
2015 – 18	Royal Society Summer Science Exhibition Committee
2015 – 17	Chair, Royal Society Sectional Committee 2
2015 – 17	Royal Society Awards Committee, Side A
2015 – 16	Rapporteur, Max Plank Research Fields Evaluation
2015	SAAC review of Soft Matter, Weizmann Institute
2015 –	Vice Chair, IUPAP Commission on Statistical Physics
2015 – 20	CECAM, Scientific Advisory Committee
2014 – 17	Institute of Physics, Awards Committee
2013 – 16	Royal Society, Newton Advanced Fellowships Panel: Physical Sciences
2009 – 13	Council, European Physical Society

Invited/plenary lectures at major international meetings: (from > 100 invited conference talks):

Sept 2023	Keynote talk, Indian conference on micro and nanofluidics, Chennai
Sept 2023	Frontiers in Physics of Soft and Biological Matter, Bangalore
Aug 2023	Bohr - 100, centennial celebrations, Copenhagen
Aug 2023	European Biophysical Society meeting, Stockholm
July 2023	Keynote talk, International Meeting on Wetting and Carbon Neutralisation, London
May 2023	Plenary lecture, XXVII Sitges Conference on Statistical Mechanics
Feb 2023	Collective Cell Migration Workshop, Sussex
Sept 2022	27th Thermodynamics Conference, Bath
Aug 2022	Active Matter: the next 25 years, Lorentz Center, Leiden
Sept 2022	Plenary lecture, Italian Soft Days, Bari
May 2022	Plenary lecture, Softcomp, Salerno
April 2022	Plenary lecture, British Applied Mathematics Colloquium
Nov 2021	Argentinian XVI Meeting on Recent Advances in Physics of Fluids and its Applications
June 2021	Granada Seminar on Computational and Statistical Physics
Sept 2020	Plenary lecture, Computer Simulations in Physics and Beyond, Moscow (on-line)
Oct 2019	Plenary lecture, Italian National Conference on the Physics of Matter, Sicily
Sept 2019	Plenary lecture, CECAM 50th Anniversary Meeting, Lausanne
July 2019	Gordon Conference, Liquid Crystals, New Hampshire
April 2019	Plenary lecture, CMD German Physical Society
Dec 2018	Plenary lecture, Australian Institute of Physics Congress
July 2018	Plenary lecture, CCP2018, California
Jan 2018	Plenary lecture, Physics@Veldhoven (Dutch National Meeting)
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 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 and Physics of 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

Selected invited lectures at Schools:

- July 2024 Boulder School, Self-organizing matter: from animate to the inanimate
- Jan 2023 Nordita Condensed Matter PhD Winter School
- July 2022 Boulder School, Hydrodynamics Across Scales
- Mar 2022 Geilo School, The Physics of Evolving Matter: Memory, Learning and Evolution
- June 2021 Complex Fluids and Soft Solids, UMass, Amherst
- Sept 2021 Theoretical Methods for Active Matter
- July 2021 Advanced School in Soft Condensed Matter - Solutions in the Summer 2021
- Mar 2020 ICTP-SAIFR/Bio2020, Brazil
- Sept 2019 New Developments in Topological Condensed Matter Physics, Les Houches, France
- Aug 2019 Complex Motion in Fluids, Denmark
- Feb 2019 Motile Active Matter: Nanomachines, Microswimmers, and Swarms, Julich, Germany
- Nov 2018 LuBISS school, Mainz
- July 2018 Fluids, London
- Apr 2018 Particles, Active Matter, Confinement and Viscoelasticity: the microfluidics playground, Naples
- 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

Recent seminars and colloquia:

- 2023: Coventry; University College London; Colloquium, Bristol; Colloquium, Dresden; Colloquium, IIT Madras; Leipzig; colloquium, Chennai
- 2022: Harvard; Heidelberg; ESPCI, Paris; IIT, Bombay; Cambridge Physics; UCL Centre for Bio-inspired Engineering; University of New Mexico; colloquium, Vienna
- 2021: Newcastle; Erlangen; Rutgers; Princeton; Varanasi; CECAM Mixed-Gen; Technion; RRI Bangalore; DAMTP Cambridge; Courant NY; Edinburgh; NSCS webinar Israel; Zhejiang
- 2020: BLCIS Annual Training Workshop; Utrecht; CECAM; Amherst; Kent State; UC Merced; Nordita; Georgia Tech (on-line)
- 2019: Dresden; National Nanotechnology Center of Turkey
- 2018: Bristol; Higgs Colloquium, Edinburgh; Warwick; Birmingham; Durham; St Andrews
- 2017: York; Oxford Comp-Bio; Dublin; Paris; ICTS Bangalore
- 2016: Durham; Oxford 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

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

- 2024-29 ERC Advanced Grant, €1.6M (funded by UKRI as a Frontier Grant)
- 2022-26 Physics of Life Interface (UKRI & Wellcome)
- 2019-23 HORIZON 2020 ITN ActiveMatter (Oxford PI)
- 2017-20 HORIZON 2020 ITN LUBISS (Oxford PI)
- 2017-19 Royal Society International Exchange (with Taiwan)
- 2017-18 BBSRC Priming Food Partnerships: Modelling Digestion (Oxford PI)
- 2016-18 EU Marie Curie: GelSwimming, 2 year PDRA (Andreas Zoetl)

- 2015-18 HORIZON 2020 ITN DISTRUC (co-PI)
 2015-19 HORIZON 2020, FETOPEN: ABIOMATER (Oxford PI)
 2012-17 ERC Advanced Grant

Editorial appointments, etc.(since 2014):

APS Outstanding Referee (2021); Board Member, Droplet (2022–); Editorial Board, La Rivista del Nuovo Cimento (2020 –); Oxford Encyclopedia Advisory Board (2018 –); Editorial Board, J. Phys. A (2019 –); Editorial Board (2019 – 20) & Advisory Board (2020 –), Molecular Physics; Editorial Board, Phil. Trans. A (2016–); Guest Editor, Journal of Physics: Condensed Matter special issue *Fluids at Structured Surfaces* (2016); Editorial Board, Phys. Rev. E (2014–); Editorial Board, Journal of Statistical Physics (2015 –)

Public engagement:

- 2024 Institute of Physics, Salisbury group lecture
 2023 Institute of Physics, London and SE Branch lecture
 2021 Physicists under the Microscope, on-line video
 2021 Lecture, PhysSoc, Oxford
 2021 Lecture, IIT Madras
 2021 National Academy of Sciences, India, Delhi Chapter
 2021 *Coherence*, student lectures, Bangalore
 2020 Panel, UN Women, Oxford
 2019 PLANCKS, International Association of Physics Students
 2019 Morning of Theoretical Physics, Oxford
 2017 Kaapi with Kuriosity, Bangalore
 2017 Portsmouth and District Physical Society
 2013 – Institute of Physics branch lectures: London and SE Branch, Berkshire, Merseyside, Manchester, Hereford & Worcester, South Central, Open University, Cambridge, Oxford
 2015 Lecture, Wykeham Abbey School
 2014 – 19 Chair, Think Physics Advisory Committee (HEFCE-funded initiative to encourage young people in the NE into STEM careers)
 2009 – 11 Lead exhibitor, Nature's Raincoats, Royal Society Summer Science Exhibition; Techfest, Mumbai; Oxfordshire Science Festival; Cheltenham Science Festival
 2008 – Governor, Francis Holland Schools Trust
 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