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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:

- EPS-CMD Liquid Matter Prize, 2024
- Appointed Officer of the Order of the British Empire (OBE), 2024
- ERC Advanced Grant (funded as Frontier Grant by UKRI), 2024–29
- Ben Sturgeon Lectureship, British Liquid Crystal Society, 2024
- 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
- Scott Prize, Oxford University, 1976

Selected recent advisory and committee appointments:

- 2024 – ERC Advanced Grants Evaluation Panel
- 2024 Review Team, School of Physics, Trinity College, Dublin
- 2024 External Member, appointment of Head of School of Physics, University of Edinburgh
- 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)
- 2020–24 British Liquid Crystal Society, Awards Committee
- 2020 – 21 International Jury, Austria Science Fund, 1,000 ideas programme
- 2020 – 24 Committee for Natural and Technical Sciences, Novo Nordisk Foundation
- 2019 – Royal Society International Exchanges Panel
- 2020, 2024 Physical Sciences Panel, Hong Kong RAE
- 2018 – 21 Council, Royal Society
- 2018 – 20 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 – 18 Vice Chair, IUPAP Commission on Statistical Physics
- 2015 – 20 CECAM, Scientific Advisory Committee
- 2009 – 13 Council, European Physical Society

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

- Sept 2024 Prize lecture, 12th Liquid Matter Conference, Mainz
- July 2024 Plenary lecture, 29th International Liquid Crystal Conference, Rio de Janeiro
- July 2024 Keynote lecture, 8th International Soft Matter Conference, Rayleigh, USA
- June 2024 10th Bifurcations and Instabilities in Fluid Dynamics meeting, Edinburgh
- 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:

- Oct 2024 School and Workshop on Active Matter, ICTP-SAIFR, Brazil
- Aug 2024 Summer School, Non-equilibrium processes in physics and biology, Vienna
- 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:

- 2024: Rutgers (on-line)
- 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: BLCS 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 Morning of Theoretical Physics, Oxford
- 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

Graduate supervision:

40 graduate students who have completed their D. Phil.

Former students and post-docs who now hold academic positions include Arnold Mathijssen (University of Pennsylvania), Tyler Shendruk (Edinburgh), Amin Doostmohammadi (Niels Bohr Institute), Davide Marenduzzo (Edinburgh), Mike Swift (Nottingham), Gareth Alexander (Warwick), Halim Kusumaatmaja (Durham), Enzo Orlandini (Padua), Flavio Seno (Padua), Cristian Micheletti (Trieste), Alexander Wagner (North Dakota), Jorn Dunkel (MIT), Mitya Pushkin (York), Paul Upton (Open University), Sumesh Thampi (IIT Madras), Rodrigo Ledesma (Northumbria), Miha Ravnik (Ljubljana), Bortolo Mognetti (Brussels), Colin Denniston (London, Ontario), Scott Edwards (Shenzhen), Philip Duxbury (Michigan)