# Gareth John Conduit

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E-mail: gjc29@cam.ac.uk

## Employment

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| Jan 2015– | **Royal Society University Research Fellow, University of Cambridge**<br>College Lecturer, Gonville & Caius College, Cambridge |
| Oct 2011<br>–Dec 2014 | **Research Fellow at Gonville & Caius College, Cambridge**<br>Department of Physics, University of Cambridge |
| Oct 2009<br>–Sep 2011 | **Royal Commission for the Exhibition of 1851 Research Fellow**<br>Koshland Fellow at Weizmann Institute of Science, Israel |
| Aug–Oct 2006 | **Institute of Astronomy, University of Cambridge** |
| Jul–Aug 2006 | **Colour Design Research Centre, Kingston University** |
| Aug–Sep 2005 | **Theory of Condensed Matter, University of Cambridge** |
| Jul–Sep 2004 | **Theoretical Astronomy Group, University of Leicester** |
| Jul–Sep 2003 | **Ford Motor Company, Basildon** |
| Jul–Sep 2001 | **Newman & Spurr Consultancy Ltd, Camberley** |

## Grants

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| **£21,600** | *"Further evaluation of data points, applying compound chemical structural information"*<br>Principal investigator of e-Therapeutics plc research contract (2017) |
| **£120,000** | *"Design of alloys for additive manufacturing using artificial intelligence"*<br>Principal investigator of EPSRC Industrial CASE with Dassault Systèmes (2017–2020) |
| **£110,000** | *"Modelling to select molecules with optimal properties for lubricant base oils"*<br>Principal investigator of BP plc research grant (2017–2020) |
| **£21,600** | *"Completion of a protein activity dataset"*<br>Principal investigator of e-Therapeutics plc research contract (2016–2017) |
| **£114,000** | *"Estate Master Plan for Gonville & Caius College"*<br>Proposal team and management committee (2016–2017) |
| **£120,000** | *"Interatomic forces with Diffusion Monte Carlo"*<br>Principal investigator of A*STAR PhD studentship (2016–2020) |
| **£11,750** | Student support from Cambridge Trust, Lundgren fund, and Christ's College (2016–2017) |
| **£568,000** | Royal Society University Research Fellowship (2015–) |
| **£30,000** | Principal investigator of *"Concurrent materials design"*<br>Royal Society Brian Mercer Feasibility award (2014–15) |
| **$2,700** | Visiting expert to US army (2014) |
| **$300,000** | Principal investigator of *"High-temperature DFT design of new materials"*<br>Samsung Electronics Co Ltd Global Research Outreach grant (2013–16) |
| **£37,000** | Principal investigator of *"Sampling of seismic reflection surveys"*<br>BP plc research grant (2013–14) |
| **£6,000** | Principal investigator of *"Few-fermion coherent tunneling"*<br>MPhil in Scientific Computing studentship (2013–14) |
| **£165,000** | Research Fellowship at Gonville and Caius College, Cambridge (2011–15) |
| **$60,000** | Koshland Fellowship at Weizmann Institute of Science, Israel (2010–11) |
| **£100,000** | Royal Commission for the Exhibition of 1851 Research Fellowship (2009–11) |
| **$50,000** | Kreitman Post-Doctoral Fellowship at Ben Gurion University, Israel (2009–11) |
| **£1,000** | Nuffield Foundation Research Bursary (2005) |

## Education

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|---|---|
| **2006–09** | **PhD, Theory of Condensed Matter Group, University of Cambridge** |
| **Awards** | Abdus Salam thesis prize (2008), Corfield Research Scholar (2006–09) |
| **2002–06** | **MA & MSci, Selwyn College, University of Cambridge** |
| 2006 | Part III Experimental & Theoretical Physics (first class, 2nd out of 110 candidates) |
| 2005 | Part II Experimental & Theoretical Physics (first class, 2nd out of 135 candidates) |
| 2004 | Part IB Advanced Physics, Physics & Mathematics (first class, 1st out of 606 candidates) |
| 2003 | Part IA Chemistry, Materials, Maths & Physics (first class, 1st out of 597 candidates) |
| **Awards** | Siddans prize (2006), Braybrook prize (2005), BP Advanced Physics prize (2004), University Part IB Mathematics prize (2004), Agilent Technologies Prize (2003) |
| **1995–02** | **Royal Grammar School, Guildford** |
| 2002 | 4A's in 'A' level Mathematics, Further Mathematics, Physics & Chemistry |
| 2001 | Distinction in the Mathematics Advanced Extension Award |
| 1999 | Radio Amateurs' Examination (full license) |
| **Awards** | Bronze medal at 2002 International Physics Olympiad in Bali<br>Gold medal in 2002 British Physics Olympiad & NPL Experimental Physics Prize<br>Gold medal & national finalist in 2002 British Informatics Olympiad<br>Nationally in the top five of 'A' level Physics candidates |

## Professional activities

Elected to 12-member Gonville & Caius College Council, the charity board of Trustees (2015–19)

Member, OPTIMADE consortium, responsible for the output format of the materials data API (2016–)

Member, steering group for the £142 k Gonville & Caius Estate Master Plan (2016–17)

Member, Gonville & Caius Investment Property sub-committee managing £80 m (2016–)

Member, Gonville & Caius Investment committee with £190 m under management (2014–)

Member, National Centre for Universities and Business 50 Under 30 steering group (2014–15)

Consultant for Granta Design Ltd, analyzing materials databases (2014–)

Member, Gonville & Caius Works and Accommodation committee with £2.4 m annual budget (2012-2015)

Consultant for cromocon™, developing algorithms to assess visibility of signs for the visually impaired (2008–)

Organized Cambridge physics Graduate Students' Conference with over 200 attendees (2008)

## Teaching experience

Director of Studies in Natural Sciences at Gonville & Caius College (2016–17)

Member, interview panel for Cambridge CDT in computational modelling in materials science (2016)

Postgraduate lecture series *"Phases of itinerant matter"* at University of Cambridge (2016 & 2017)

Undergraduate admissions interviews at Gonville & Caius College (2015–)

Created new postgraduate lecture series and accompanying examinations in *"Many-body physics"* at Bristol University CDT in Condensed Matter Physics (2014)

Postgraduate lecture series *"Ultracold atomic gases as quantum simulators"* at University of Cambridge (2013)

Winner of the Institute of Physics "3 Minute Wonder" outreach competition (2012)

Tutorials for undergraduate students at University of Cambridge (2006–09 & 2011–)

Lectures to the British Physics Olympiad Team (2007–2009 & 2017)

## Research supervision

| | | |
|---|---|---|
| P. Verpoort | 2017– | PhD |
| D.C.W. Foo | 2016–17 | Master's |
| L.Y. Yang | 2016– | PhD |
| V. Kouzmanov | 2016 | Internship, continued with third year at University of Cambridge |
| L. Schonenberg | 2015–17 | PhD, moved to McKinsey & Company |
| M. Michael | 2015–16 | Master's, subsequently PhD at Harvard University |
| H. Neitzel | 2015–16 | Master's, followed by research at University of Tübingen |
| M. Zimet | 2015 | Internship, then senior year at Harvard University |
| T.M. Whitehead | 2014– | PhD |
| A. Ireland | 2014–15 | Master's, subsequently associate at OC&C Strategy Consultants |
| N. Kongsuwan | 2014–15 | Master's, afterward PhD at Imperial College, London |
| P. Vanya | 2013–14 | Master's, followed by PhD at University of Cambridge |
| D. Oliveira Sánchez | 2013–14 | Master's, subsequently analyst at Citigroup Inc. |
| J.A. Lofthouse | 2012–13 | Master's, next at Government Operational Research Service |
| C.W. von Keyserlingk | 2010 | Internship, followed by D.Phil at University of Oxford |

## Publications & patents

**Effective-range dependence of two-dimensional Fermi gases**
*L.M. Schonenberg, P.C. Verpoort & G.J. Conduit*
Accepted for publication in Phys. Rev. A.

**Design of a nickel-base superalloy using a neural network**
*B.D. Conduit, N.G. Jones, H.J. Stone & G.J. Conduit*
Materials & Design **131**, 358 (2017).

**Quantum Order-by-Disorder in Strongly Correlated Metals**
*A.G. Green, G.J. Conduit & F. Krüger*
Accepted for publication in Annual Review of Condensed Matter Physics (2017).

**Effective range dependence of resonant Fermi gases**
*L.M. Schonenberg & G.J. Conduit*
Phys. Rev. A **95**, 013633 (2017).

**Jastrow correlation factor for periodic systems**
*T.M. Whitehead, M.H. Michael & G.J. Conduit*
Phys. Rev. B **94**, 035157 (2016).

**Pseudopotential for the 2D contact interaction**
*T.M. Whitehead, L.M. Schonenberg, N. Kongsuwan, R.J. Needs & G.J. Conduit*
Phys. Rev. A **93**, 042702 (2016).

**Pseudopotentials for an ultracold dipolar gas**
*T.M. Whitehead & G.J. Conduit*
Phys. Rev. A **93**, 022706 (2016).

**Pseudopotential for the electron-electron interaction**
*J.H. Lloyd-Williams, R.J. Needs & G.J. Conduit*
Phys. Rev. B **92**, 075106 (2015).

**Extracting semiconductor band gap zero-point corrections from experimental data**
*B. Monserrat, G.J. Conduit & R.J. Needs*
Phys. Rev. B **90**, 184302 (2014).

**High-fidelity pseudopotentials for the contact interaction**
*P.O. Bugnion, P. López Ríos, R.J. Needs & G.J. Conduit*
Phys. Rev. A **90**, 033626 (2014).

**A New Nickel Based Superalloy for a Combustor Liner and Other high Temperature Applications**
*H.J. Stone, B.D. Conduit & G.J. Conduit*
Patent application GB1408536 (2014).

**Alloy composition (Molybdenum-niobium alloy)**
*B.D. Conduit, G.J. Conduit, H.J. Stone & M.C. Hardy*
Patent application US20140322068 (2014), EP2796581 (2014), GB1307535 (2013).

**A nickel alloy**
*M.C. Hardy, H.J. Stone, P.M. Mignanelli, B.D. Conduit & G.J. Conduit*
Patent application US20140348689 (2014), EP2805784 (2014), GB1403486 (2014).

**Alloy composition (Molybdenum-hafnium alloy)**
*B.D. Conduit, G.J. Conduit, H.J. Stone & M.C. Hardy*
Patent application US 2014/223465 (2014), EP2796580 (2014), GB1307533 (2013).

**Method and system for designing a material**
*G.J. Conduit & B.D. Conduit*
Patent application US20140236548 (2014), EP2778990 (2014), GB1302743 (2013).

**Alloys based on Cr-$Cr_2Ta$ containing Si**
*A. Bhowmik, R.E. Bennett, B. Monserrat, G.J. Conduit, L.D. Connor, J.E. Parker, R.P. Thompson, C.N. Jones & H.J. Stone*
Intermetallics **48**, 62 (2014).

**Inhomogeneous state of few-fermion superfluids**
*P.O. Bugnion, J.A. Lofthouse & G.J. Conduit*
Phys. Rev. Lett. **111**, 045301 (2013).

**Quantum Monte Carlo study of the two-dimensional ferromagnet**
*G.J. Conduit*
Phys. Rev. B **87**, 184414 (2013).

**Exploring exchange mechanisms with a cold atom gas**
*P.O. Bugnion & G.J. Conduit*
Phys. Rev. A **88**, 013601 (2013).

**Ferromagnetic spin correlations in a few-fermion system**
*P.O. Bugnion & G.J. Conduit*
Phys. Rev. A **87**, 060502(R) (2013).

**Grain growth behaviour during near-$\gamma'$ solvus thermal exposures in a polycrystalline nickel-base superalloy**
*D.M. Collins, B.D. Conduit, H.J. Stone, M.C. Hardy, G.J. Conduit & R.J. Mitchell*
Acta Materialia **61**, 3378 (2013).

**Fluctuation-induced pair density wave in itinerant ferromagnets**
*G.J. Conduit, C.J. Pedder & A.G. Green*
Phys. Rev. B **87**, 121112(R) (2013).

**Itinerant ferromagnetism with finite ranged interactions**
*C.W. von Keyserlingk & G.J. Conduit*
Phys. Rev. B **87**, 184424 (2013).

**Development of a new nickel based superalloy for a combustor liner and other high temperature applications**
*B.D. Conduit, G.J. Conduit, H.J. Stone & M.C. Hardy*
Rolls-Royce Group plc Invention submission NC13006 (2013).

**Line of Dirac monopoles embedded in a Bose-Einstein condensate**
*G.J. Conduit*
Phys. Rev. A **86**, 021605(R) (2012).
Selected as a Kaleidoscope in August 2012.

**Development of new high strength highly processable nickel based superalloys for turbine disc applications**
*B.D. Conduit, G.J. Conduit, H.J. Stone & M.C. Hardy*
Rolls-Royce Group plc Invention submission NC12261 (2012).

**Field-Tuned Quantum Phase Transition in the Insulating Regime of Ultrathin Amorphous Bi Films**
*G.J. Conduit & Y. Meir*
Phys. Rev. Lett. **108**, 159701 (2012).

**First-principles calculation of electronic transport in low-dimensional disordered superconductors**
*G.J. Conduit & Y. Meir*
Phys. Rev. B **84**, 064513 (2011).

**Combinatorial development of a polycrystalline alloy using importance sampling**
*B.D. Conduit, G.J. Conduit, M.C. Hardy & H.J. Stone*
Rolls-Royce Strategic Partnership (2011).

**Strategies for improving the efficiency of quantum Monte Carlo calculations**
*R.M. Lee, G.J. Conduit, N. Nemec, P. López Ríos & N.D. Drummond*
Phys. Rev. E **83**, 066706 (2011).

**Itinerant ferromagnetism in an interacting Fermi gas with mass imbalance**
*C.W. von Keyserlingk & G.J. Conduit*
Phys. Rev. A **83**, 053625 (2011).

**Effect of three-body loss on itinerant ferromagnetism in an atomic Fermi gas**
*G.J. Conduit & E. Altman*
Phys. Rev. A **83**, 043618 (2011).

**Itinerant ferromagnetism in a two-dimensional atomic gas**
*G.J. Conduit*
Phys. Rev. A **82**, 043604 (2010).

**Dynamical instability of a spin spiral in an interacting Fermi gas as a probe of the Stoner transition**
*G.J. Conduit & E. Altman*
Phys. Rev. A **82**, 043603 (2010).

**Theory of quantum paraelectrics and the metaelectric transition**
*G.J. Conduit & B.D. Simons*
Editors' Suggestion in Phys. Rev. B **81**, 024102 (2010).

**A repulsive atomic gas in a harmonic trap on the border of itinerant ferromagnetism**
*G.J. Conduit & B.D. Simons*
Phys. Rev. Lett. **103**, 200403 (2009).

**Inhomogeneous phase formation on the border of itinerant ferromagnetism**
*G.J. Conduit, A.G. Green & B.D. Simons*
Editors' Suggestion in Phys. Rev. Lett. **103**, 207201 (2009).
Spotlit with accompanying Viewpoint commentary in Physics **2**, 93 (2009).

**Itinerant ferromagnetism in an atomic Fermi gas: Influence of population imbalance**
*G.J. Conduit & B.D. Simons*
Phys. Rev. A **79**, 053606 (2009).

**Diffusion Monte Carlo study of a valley degenerate electron gas and application to quantum dots**
*G.J. Conduit & P.D. Haynes*
Phys. Rev. B **78**, 195310 (2008).

**Many-flavor electron gas approach to electron-hole drops**
*G.J. Conduit*
Phys. Rev. B **78**, 035111 (2008).

**Superfluidity at the BEC-BCS crossover in two-dimensional Fermi gases with population and mass imbalance**
*G.J. Conduit, P.H. Conlon & B.D. Simons*
Phys. Rev. A **77**, 053617 (2008).

**Visibility prediction software: five factors of contrast perception for the vision impaired in the real world**
*H. Dalke, A. Corso, G.J. Conduit & A. Riaz*
6th Cambridge Workshop on Universal Access and Assistive Technology (2012).

**Visual Impairment: Design, Research and Application**
*H. Dalke, A. Corso & G.J. Conduit*
Fifth International Conference on Design Principles and Practices in Rome (2011).

**Designing Inclusive Futures: Colour contrast assessment system**
*H. Dalke, G.J. Conduit, B.D. Conduit, R. Cooper, A. Corso & D. Wyatt*
Universal Access in the Information Society, Springer Verlag (2010).

**Colour contrast assessment system: design for people with visual impairment**
*H. Dalke, G.J. Conduit, B.D. Conduit, R. Cooper, A. Corso & D. Wyatt*
Designing Inclusive Interactions, Springer Verlag, pp. 101-112 (2010). ISBN: 978-1-84996-165-3.
5th Cambridge Workshop on Universal Access and Assistive Technology (2010).

**British Standard BS 8493:2008+A1:2010 Light reflectance value (LRV) of a surface. Method of test**
*H. Dalke, A. Corso, G.J. Conduit & A. Riaz*
ISBN 978-0-58-067695-6 (2010).

**Measurement for a more visible world: colour contrast and visual impairment**
*H. Dalke, G.J. Conduit, B.D. Conduit & A. Corso*
Measurement, sensation and cognition, pp. 134-138 (2009). ISBN: 978-0-946754-56-4.
Measuring the Impossible Workshop, National Physical Laboratory (2009).

**cromocon™ system for determining sign visibility**
*H. Dalke, G.J. Conduit, R. Cooper & S. Cole*
Online website & manual (2009).

**British Standard BS 8493:2008 Light reflectance value (LRV) of a surface. Method of test**
*H. Dalke, G.J. Conduit & A. Corso*
ISBN 978-0-58-057517-4 (2008).

**A Device for contrast assessment**
Patent GB0712610 (2007).

**Future Integrated Transport Environments: Colour Design, Lighting and Visual Impairment**
Department for Transport (DfT) (2005).

## Invited seminars & conference talks

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| **2017** | Sep | Invited talk at "From the atom to the material" conference, E-CAM, UK |
| | Jul | Invited talk at Spin Orbit Materials Conference, Luxembourg |
| | Jul | Invited talk at Condensed Matter in the City, UK |
| | Jun | Invited talk at Caius Science Networking, UK |
| | Jun | Seminar at Department of Materials, University of Oxford, UK |
| | Jun | Outreach talk at Gonville & Caius Summer School, UK |
| | May | Invited talk at International workshop, Manchester, UK |
| | May | Seminar at Dassault Systèmes, UK |
| | Mar | Invited talk at Nano and Materials Science Conference, Barcelona, Spain |
| | Mar | Contributed talk at DPG Spring Meeting, Dresden, Germany |
| | Mar | Invited talk at DPG Spring Meeting, Dresden, Germany |
| | Mar | Seminar at Imperial College London, UK |
| | Jan | Seminar at University of Cambridge, UK |
| | Jan | Invited talk at Frontiers in Condensed Matter Physics, Bristol, UK |
| **2016** | Nov | Seminar at University of Cambridge, UK |
| | Nov | Graduate lecture series at University of Cambridge, UK |
| | Oct | Colloquium at Lorentz Center, Netherlands |
| | Sep | Synoptic talk at Gonville & Caius College, UK |
| | Sep | Invited talk at RAMS2016, University of Lancaster, UK |
| | Sep | Invited talk at University of Cambridge, UK |
| | Jul | Outreach talk at Gonville & Caius Summer School, UK |
| | May | Invited talk at Granta Design Ltd, UK |
| | May | Seminar at University of Warwick, UK |
| | May | Seminar at University of Oxford, UK |
| | Apr | Invited talk at Today's Data Predicting Tomorrow, Loughborough University, UK |
| | Mar | Invited talk at RAMM2016, Queen Mary University of London, UK |
| | Feb | Invited talk at Cambridge Enterprise, UK |
| | Jan | Seminar at University of Cambridge, UK |
| **2015** | Dec | Seminar at University of Trento, Italy |
| | Nov | Seminar at University of Cambridge, UK |
| | Nov | Seminar at Lancaster University, UK |
| | Oct | Soirée at Imperial College London, UK |
| | Oct | Seminar at University of Cambridge, UK |
| | Oct | Colloquium at University of Cambridge, UK |
| | Jul | Outreach talk at Gonville & Caius Summer School, UK |
| | Jul | Colloquium at National Centre for Universities and Business, UK |
| | Apr | Colloquium at University of Cambridge, UK |
| | Mar | Blackboard talk at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Mar | Invited speaker at Quantum Winter School, University of Oxford, UK |
| | Mar | Colloquium at Cambridge University Physics Society Access Event, UK |
| **2014** | Nov | Seminar at School of Physics, Bristol University, UK |
| | Nov | Lecture series at CDT in Condensed Matter Physics, Bristol University, UK |
| | Nov | Seminar at Samsung Advanced Institute of Technology, Republic of Korea |
| | Oct | Seminar at Surfaces, Microstructure and Fracture Group, University of Cambridge, UK |
| | Oct | Invited speaker at Samsung R&D Institute, UK |
| | Sep | Invited speaker at Abu Dhabi Investment Authority, UK |
| | Jul | Invited speaker at QMC versus density functional theory conference, Tuscany, Italy |
| | Jul | Invited speaker at NanoDTC symposium, UK |
| | Jul | Seminar at School of Engineering, University of Edinburgh, UK |
| | Jun | Seminar at Department of Chemistry, University College London, UK |
| | Jun | Invited speaker at Tec^Edge Innovation & Collaboration Center, USA |
| | May | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | May | Blackboard talk at Theory of Condensed Matter Group, University of Cambridge, UK |
| | May | Talk at School of Physical Sciences, University of Kent, UK |

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| | May | Seminar at School of Physics and Astronomy, University of Edinburgh, UK |
| | Apr | Invited speaker at Samsung GRO launch day, University of Cambridge, UK |
| | Feb | Seminar at Strategic Analysis, Arlington, USA |
| | Feb | Seminar at Aberdeen Proving Grounds, Maryland, USA |
| | Feb | Outreach talk at Caius Sciences Study Day, UK |
| | Jan | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Jan | Talk at Department of Materials Science & Metallurgy, University of Cambridge, UK |
| **2013** | Nov | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Oct | Seminar at Physics Department, Loughborough University, UK |
| | Oct | Seminar at Department of Physics, University of Warwick, UK |
| | Sep | Seminar at University College London, UK |
| | Sep | Invited speaker at EUROMAT2013, Seville, Spain |
| | Sep | Seminar at Accelrys Inc., UK |
| | Aug | Invited speaker at UK-NL Condensed Matter Meeting, Bristol, UK |
| | Aug | Invited speaker at Dynamics of Complex Quantum Systems, Windsor, UK |
| | Jul | Invited speaker at QMC versus density functional theory conference, Tuscany, Italy |
| | Jul | Invited speaker at CMP in the City: Magnetism, London, UK |
| | Jul | Seminar at Granta Design Ltd, UK |
| | Jul | Invited speaker at BP compressive sensing symposium, UK |
| | Jun | Seminar at Department of Physics, University of Nottingham, UK |
| | May | Seminar at Thomas Young Centre, Imperial College London, UK |
| | May | Invited speaker at Worshipful Company of Armourers and Brasiers, London, UK |
| | May | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Apr | Colloquium at Easter Science School, UK |
| | Mar | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Feb | Outreach talk at Caius Sciences Study Day, UK |
| | Feb | Outreach talk at Whitgift School visit, UK |
| | Feb | Seminar at Quantum Matter Group, University of Cambridge, UK |
| | Feb | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Jan | Graduate lecture series at University of Cambridge, UK |
| **2012** | Nov | Seminar at Rudolf Peierls Centre for Theoretical Physics, University of Oxford, UK |
| | Nov | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Oct | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Sep | Invited speaker at POLATOM Network Conference, UK |
| | Jun | Invited speaker at CMP in the City: Disorder and Magnetism, London, UK |
| | Jun | Invited speaker at CMP in the City: Superconductivity, London, UK |
| | May | Colloqium at University of Cambridge, UK |
| | Apr | Colloqium at Easter Science School, UK |
| | Mar | Seminar at Royal Holloway, University of London, UK |
| | Mar | Invited speaker at Royal Society, UK |
| | Mar | Invited speaker at Maria Waldrast meeting, Austria |
| | Feb | Outreach talk at Caius Sciences Study Day, UK |
| | Feb | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| | Jan | Colloquium at Royal Commission for the Exhibition of 1851 Science Evening, UK |
| | Jan | "3 Minute Wonder" event at Institute of Physics, UK |
| | Jan | Seminar at University of York, UK |
| **2011** | Dec | Contributed talk at CMMP11, UK |
| | Oct | Invited speaker at Cambridge University Physics Society, UK |
| | May | Invited speaker at Quantum Magnetism Conference, Israel |
| | Mar | Seminar at Durham University, UK |
| | Mar | Outreach talk at St Paul's School, London, UK |
| | Mar | Seminar at London Centre for Nanotechnology, University College London, UK |
| | Mar | Seminar at Rudolf Peierls Centre for Theoretical Physics, University of Oxford, UK |
| | Mar | Seminar at Theory of Condensed Matter Group, University of Cambridge, UK |
| **2010** | Dec | Blackboard talk at Weizmann Institute of Science, Israel |
| | Dec | Invited speaker at Israeli Physical Society Conference |

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| | Dec | Blackboard talk at Ben Gurion University, Israel |
| | Oct | Invited speaker at Mizpe Ramon Scientific Retreat, Israel |
| | May | Seminar at Center for Ultracold Atoms, MIT, USA |
| | May | Invited speaker at CIFAR Quantum Materials Program Meeting, Canada |
| | Apr | Seminar at Ben Gurion University, Israel |
| | Mar | Contributed talk at APS March meeting, USA |
| | Mar | Seminar at St Andrews Condensed Matter Physics Group, UK |
| | Jan | Invited speaker at Newspin 2010 Conference, Utrecht University, The Netherlands |
| | Jan | Seminar at Weizmann Institute of Science, Israel |
| **2009** | Dec | Invited talk at Israeli Physical Society Conference |
| | Jun | Seminar at Weizmann Institute of Science, Israel |
| | May | Seminar at University of Birmingham, UK |
| | Mar | Contributed talk at APS March meeting, USA |
| | Feb | Seminar at University of Cambridge, UK |
| | Jan | Abdus Salam Prize talk at University of Cambridge, UK |
| **2008** | Oct | Seminar at University of St Andrews, UK |
| | Sep | Outreach talk at University of Cambridge, UK |
| | Jun | Seminar at University of Cambridge, UK |
| | Feb | Seminar at University of Cambridge, UK |
| | Jan | Seminar at University of Cambridge, UK |
| **2007** | Sep | Outreach talk at University of Cambridge, UK |
| | May | Seminar at University of Cambridge, UK |
| **2005** | Feb | Colloquium at BP Institute, UK |
| **2004** | Sep | Seminar at University of Leicester, UK |