

METE ATATÜRE

Professor of Physics

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RESEARCH AREAS

Light-matter quantum interfaces in solids for quantum network hardware approaches
Optics of atomically thin quantum materials and emergent many-body physics
Nanoscale quantum sensing and imaging for material discovery and physical phenomena in life sciences

ACADEMIC APPOINTMENTS

Oct. 2015 – <i>present</i>	Professor of Physics Department of Physics, Cavendish Laboratory University of Cambridge, Cambridge, UK
Oct. 2011 – Sept. 2015	Associate Professor (Reader) Department of Physics, Cavendish Laboratory University of Cambridge, Cambridge, UK
Oct. 2009 – <i>present</i>	Fellow / Tutor / Director of Studies St John's College, Cambridge, UK
June 2007 – Sept. 2011	Assistant Professor (Lecturer) Department of Physics, Cavendish Laboratory University of Cambridge, Cambridge, UK
April 2003 – May 2007	Postdoctoral Fellow / Oberassistent / Privat Dozent (Lecturer) Quantum Photonics Group, Institute of Quantum Electronics Swiss Federal Institute of Technology, Zürich, Switzerland
June 2002 – April 2003	Postdoctoral Fellow with Prof. Atac Imamoglu Department of Physics, 4. Physical Institute Universität Stuttgart, Stuttgart, Germany
May 1997 – May 2002	Graduate Teaching & Research Assistant Departments of Physics & Electrical and Computer Engineering Boston University, Boston, MA, USA

EDUCATION

July 2005 – March 2007	Dr. habil. – ETH, Zürich, Switzerland Habilitation (Tenure Track) in Experimental Physics Thesis: <i>Quantum Optics with Quantum-Dot Spins</i>
Sept. 1996 – May 2002	Ph.D. in Physics – Boston University, Boston, MA, USA Full Graduate Research Fellowship Thesis: <i>Multiparameter Entanglement and Quantum Interferometry</i>
Sept. 1992 – June 1996	B.Sc., Honours in Physics – Bilkent University, Ankara, Turkey Full Undergraduate Scholarship Senior Project: <i>Study of Surface Plasmons with Raman Spectroscopy</i>

AWARDS & HONOURS

Thomas Young Medal and Prize – Institute of Physics (2020)
Elected Distinguished Fellow – Sabanci University (2020 - *present*)
International Achievement Award – ForumIstanbul2023 (2016)
Science Person of the Year – MSIC National Students' Choice Award (2016)
Outstanding Achievement Award – GQ Man of the Year, Turkey (2015)
CAS Distinguished Visiting Professor – USTC, China (2010-2014)
Venia Legendi in Experimental Physics – ETH Zurich (2007)
Best Research Paper Award – SPIE New England Chapter (1999)
Top 500 National Science Scholarship – Science & Technology Research Council of Turkey (1992-1996)

LEARNED SOCIETIES

Elected Member of EA - Academia Europaea (2021)
Elected Fellow of Optica - Optical Society of America (2020)
Elected Fellow of TBA – The Science Academy Association, Turkey (2012)
Elected Fellow of IoP - Institute of Physics, United Kingdom (2010)

PUBLICATIONS & CONFERENCES

>100 peer-reviewed publications ([Mete Atature - Google Scholar](#)).
>200 plenary/keynote/invited/colloquia including Max Planck Colloquium MPQ (Garching 2017), Joan van der Waals Colloquium (Leiden 2017), Max Planck Distinguished Lecturer Series MPI (Erlangen 2019), Laboratoire Kastler Brossel Colloquium (Paris 2019), Plenary at PQE2020 (Snowbird), Chicago PME Distinguished Colloquium Series (Chicago 2021), Doktoratskolleg Physics Colloquium (Innsbruck 2021), Keynote at Graphene2021 (Grenoble), NUS Physics Colloquium (Singapore 2022), Plenaries at DPG Spring Meeting (Dresden 2017, 2023)

PATENTS & COMMERCIAL ENGAGEMENT

US20190288160; WO2018/015738; EP3485519; CN109844969; DK3485519 - scalable quantum-confined device, 2016
US10903396 - layered material based quantum light emitting device, 2019
Chief Scientific Officer and co-founder, *Nu Quantum Ltd.* (2018 - *present*)
Scientific Consultant for a venture capital on quantum technology investments (2019 - *present*)
Academic Consultant for the President, Jacobs University Bremen (2022 - *present*)

RESEARCH GRANTS (£13,327,172 – coI fraction where relevant)

UK-based agencies (EPSRC / Leverhulme / Winton / InnovateUK / Henry Royce Institute): £3,492,460 to-date
EU-based agencies (ERC Starting, Consolidator, Advanced, PoC / Horizon / Quantum Flagship): £8,452,071 to-date
US-based agencies (ONR Global / The Gordon & Betty Moore Foundation): £1,382,641 to-date

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL RESEARCHERS

27 Postdoctoral researchers: 6 current, 21 completed (8 in academic and 10 in industrial R&D, 3 in management careers)
41 PhD students: 16 current, 25 completed (12 in academic and 9 in industrial R&D, 4 in management careers)
19 Masters students: 1 current, 18 completed (11 in academic and 7 in industrial/management careers)

EDITORIALS

IoP Materials for Quantum Technologies (Editorial Board Member 2023 – *present*)
Small (Editorial Advisory Board Member 2019 – *present*)
Nature Scientific Reports (Editorial Board Member 2011 – 2015)

SERVICE TO THE UNIVERSITY & THE ACADEMIC COMMUNITY

Head of the Cavendish Laboratory, Physics Department (October 2023 - *present*)

Deputy Head of Cavendish Laboratory (2022 – Sept 2023)

Member of the Board of the Cavendish Laboratory (2020 – *present*)

Chair of the Cavendish Graduate Funding Committee (2010 – 2019)

Other University Committees: Faculty Hiring, Head of Department Consultation, Research Excellence Framework

School Organisations: 3 ICAM summer schools on quantum optics & many-body phenomena (2009, 2012, 2016)

Conference Organisations: Programme chair for QCMC2024, deputy chair for QCMC2022, scientific committee for TERAMETANANO 4, OECS2017, OECS2023, CLEO/Europe-EQEC (Quantum Optics Division), PLMCN 2013, PLMCN 2017, QCMC2018, QCMC2020, NOEKS11, IoP QD Day 2010, IoP QD Day 2015, ICSCE4

Member of the ALLEA Working Group on the European Research Area (ERA) – Horizon Europe

GRANT PANELS & EVALUATION SERVICES (SELECTED)

UK-based agencies: UK Research & Innovation (EPSRC), the Royal Society, the Leverhulme Trust

EU-based agencies: European Research Council (ERC), Horizon 2020, The Foundation for Fundamental Research on Matter (FOM) Netherlands, National Research Agency France, Austrian Science Fund (FWF), Danish National Research Foundation, German Research Foundation (DFG)

USA & other: National Science Foundation (NSF), Department of Energy (DoE) USA, Canada Research Chairs Programme and NERC (Canada). Israel Science Foundation (ISF), Russian Science Foundation Mega Grants, Chinese Academy of Sciences (CAS), Singapore Ministry of Education (MOE)

External examiner and jury member for 29 PhD exams worldwide

Expert assessor or panel member for 12 faculty tenure and 4 chaired professorship appointments worldwide

Member of the Annual Review Panel for Hitachi Ltd Cambridge Laboratory (HCL)

Member of the 2019 and 2021 panels for the review for the Irish Photonics Integration Research Centre (IPIC)

NOTABLE ACHIEVEMENTS OF SUPERVISEES (SELECTED)

Prof CY Lu, USTC: IUPAP Young Scientist Award, EPS Fresnel Prize, APS Landauer & Bennett Award, OSA Fellow

Prof AN Vamivakas, University of Rochester: IUPAP Young Scientist Award

Dr C Palacios-Berraquero, Nu Quantum Ltd: IoP Jocelyn Bell Burnell Prize, Springer Thesis Award and Book

Dr C Le Gall, Microsoft Research Lab: Royal Society Dorothy Hodgkin Fellowship

Dr DM Kara, University of Copenhagen: Royal Society University Research Fellowship

Dr HS Knowles, University of Cambridge: Royal Society University Research Fellowship

Dr D Gangloff, University of Oxford: Royal Society University Research Fellowship

Dr H Stern, University of Cambridge: Royal Society University Research Fellowship

SCIENCE COMMUNICATION & PUBLIC ENGAGEMENT

27 public talks on science and society (Cambridge, London, Edinburgh, Istanbul, Izmir, Ankara, Bangkok, and online)

6 TEDx Talks on quantum physics, light, science and diversity

2 live Nation-wide Webinar Lectures to 36,000 high-school students in 28 cities with question & answer sessions

4 TV appearances on physics and technology communication in Turkey

2 public talks for the British Council Study UK programme to attract high-school level international STEM talent

Monthly essays on Science and Society in TRIP, a Science and Arts magazine since 2018

Co-developed an art exhibition at Kettle's Yard Cambridge on the science of Gustav Metzger's works

Annual Science & Art workshop co-organized with Wysing Arts Centre & Leverhulme Arts Scholars (3 years)

Green Man Festival, Einstein's Garden: Light, Sound & Waves (Annual 4-day public engagement, 2 years)

Advisory board of the Cavendish ArtScience Project for resident artists in the Physics Department