

Geetha Balakrishnan

Curriculum Vitae: Geetha Balakrishnan

Present Position: Professor, Department of Physics,
University of Warwick,
Coventry CV4 7AL, UK;

e-mail [REDACTED]

Professional History

2010-present Professor, Department of Physics, University of Warwick, UK
2004-2010 Principal Research Fellow, Department of Physics, University of Warwick, UK
1991-2004 Senior Research Fellow, Department of Physics, University of Warwick, UK
1989-1991 Scientist, Tata Institute of Fundamental Research, Bombay, India
1986-1998 Research Fellow, Department of Physics, University of Warwick, UK
1982-1985 Research Associate, Indian Institute of Technology, Madras, India

Qualification

1982 Ph.D. in Physics Indian Institute of Technology, Madras, India.

Awards: Elected **Fellow** of the Institute of Physics, UK, 2009.
JSPS Visiting Professor, RIKEN, Japan 2018.

Research: Condensed matter Physics; Superconducting, magnetic, topological and skyrmionic materials; single crystal growth of a wide range of materials using various techniques; neutron scattering and related techniques to probe these materials.

Funded Research Grants (2000-present)

2019	"Single Crystal Growth at Warwick" EPSRC, UK, EP/T005963/1, Aug 2019-Aug 2023, £ 634,595	PI
2016	"Skyrmionics: From Magnetic Excitations to Functioning Low-Energy Devices" Programme Grant, EPSRC, UK, EP/N032128/1, July 2016-July 2022 £5,101,385	Co-I (Warwick PI)
2015	"Investigations of the physics underlying the principles of design of rare earth transition metal permanent magnets" EPSRC, UK, EP/M028941/1 Jan 2016-Jan 2020, £931,725	Co-I
2014	"Single Crystal Growth at Warwick" , EPSRC, UK, EP/M028771/1 July 2015- July 2018 £514,769	PI
2014	"Topological Insulators: A study of bulk crystalline and nanomaterials" EPSRC, UK EP/L014963/1, March 2014-Aug 2017, £616,679	PI
2013	"Superconductor/Ferromagnetic Hybrids based on unconventional superconductors" , RDF award, University of Warwick, to work with SPIN-CNR, Salerno, Italy, 2013-2014, £12380.	PI
2013	"Electronic Structure of Correlated Materials" with University of Boston, IPF Award, University of Warwick, 2013-2014, £4995	PI
2011	"Single Crystal Growth at Warwick" EPSRC, UK EP/I007210/1 Jan 2011-Mar 2014, £475,907	PI
2010	"Dynamical Response of Complex oxides" with the University of Boston, University of Warwick, 2010-2012, £ 19,184.	PI
2009	"Multiband Superconductivity" EPSRC, UK, EP/G067414/1, Oct 2009- Oct 2013, £174,126	Co-I

Geetha Balakrishnan

2008	<i>"Investigations of the properties of multiferroic crystals at low temperatures: A visiting Fellowship for Dr C.V. Tomy"</i> EPSRC, UK EP/F040512/1 May 2008- May 2009, £86,908	PI
2008	<i>"Science City Initiative"</i> , Regional Development Agency, Universities of Birmingham and Warwick, Equipment fund, £ 820,000	
2007	<i>"Neutron scattering study of highly frustrated magnetic materials"</i> EPSRC UK, EP/F021512/1, Oct 2007-Sep 2011, £142,847	Co-I
2007	<i>"Single Crystal Growth at Warwick"</i> EPSRC, UK EP/E011802/1, May 2007- May 2010, £556,444	PI
2005	<i>"The physics of layered cobalt oxides"</i> EPSRC, UK, EP/C000757/1, Jan 2005- Jan 2008, £232,398	Co-I
2001	<i>"High Temperature Xenon Image Furnace for crystal growth"</i> , EPSRC, UK, Aug 2001, £149,999	Co-I
2000	<i>"Acciones Integradas"</i> with the University of Zaragoza, Spain, British Council, 200-2002	PI
2000	University of Warwick, <i>"Research, Teaching and Development Fund"</i>	PI
1998	<i>"Acciones Integradas"</i> with the University of Zaragoza, Spain, British Council, 1998-2000	PI

Professional activities and Administration

External:

Chair, International Union of Crystallography (IUCr) Commission on *Crystal growth and characterisation of materials*.

International Programme Committee, *International Union of Crystallography Congress*, Melbourne 2023

Programme Committee, *International Conference on Crystal Growth and Epitaxy*, Naples 2023

Member of the EPSRC, UK, College of Reviewers

Member, Panel for Beamline access, STFC, UK.

External Examiner for PhD Theses in several UK as well as International Universities.

Reviewer of research proposals from Research councils in Germany, USA, Brazil, Portugal, Spain, Ireland and France.

Vice Chair of European COST Action: *Towards Oxide Based Electronics*, involving participation from research groups in over 25 countries.

University of Warwick:

Member of the Physics Department PG SSLC

Member of the Physics Department Teaching and Learning Committee

Member of the Departmental Research Committee

Member of the Departmental Welfare and Communications Group

Coordinator of Physics UG Teaching Laboratories

Committee Member, Race Equality Charter Mark Group in the University

Recent Invited Talks and Meetings

MRS Virtual Spring Meeting April 2021

Topology in Magnetism-Theory meets experiments Oct 2019, La Plata, Argentina

Zhejiang Workshop on Correlated Matter (ZWCM 2019), Sep 2019, China

OSS2018 Workshop "Oxide Superconducting Spintronics Workshop, Amalfi, Italy April 2018

International Conference on Solid Compounds of Transition Elements (SCTE 2018) March 2018, Vienna, Austria

Nanolito-2D Materials Workshop, Salamanca Spain, Jan 2017

Institute of Nanoscience of Aragon, Zaragoza, Spain, Jan 2017

Geetha Balakrishnan

Teaching

I am currently on study leave and am exempt from all UG teaching duties Oct 2021-22. I continue to supervise PhD students. In the academic year 2020-21, I had a teaching load of two final year modules managing and coordinating all the 3rd Year MPhys UG Group projects, UG tutor groups for all years and supervision of UG final year research projects (2 pairs).

***Publications: Over 364 papers published with an *h*-index of 41, full list available on Orcid**
[Geetha Balakrishnan \(0000-0002-5890-1149\) \(orcid.org\)](#)

