

Curriculum Vitae -Tobias Schaeffter

Personal Details

Name: Prof. Dr. rer. nat. Tobias Schaeffter

Date of Birth: 16. September 1967

Position: Head of Division Medical Physics and Metrological IT
Physikalische Technische Bundesanstalt
Abbestr. 2-12, 10587 Berlin
tobias.schaeffter@ptb.de

Professor in Biomedical Imaging at Technische Universität Berlin
tobias.schaeffter@TU-Berlin.de

Professor in Imaging Sciences at King's College London
tobias.schaeffter@kcl.ac.uk

Research Areas

- Medical Physics, Biomedical Engineering, Imaging Sciences,
- Magnetic Resonance Imaging (MRI),
- Interventional and Cardiovascular MRI,
- Quantitative MRI,
- Simultaneous PET-MRI,
- Motion Modelling and Motion Compensation
- Clinical Translation.

Publications

> 200 journal papers, h-factor: 41 (Web of Science)

> 400 Conference papers and abstracts,

> 50 invited talks

9 book chapters and 1 book,

30 patents.

Professional Career

Since 2019 Head of the Berlin Institute, Physikalisch-Technische Bundesanstalt (PTB)

Since 2019 Professor in Biomedical Imaging, Technische Universität Berlin

Since 2015 Head of Division Medical Physics and Metrological Information Technology,
(PTB)

2013 - 2015 Department Head of Biomedical Engineering, King's College London

2010 - 2015 Deputy Head of Division, King's College London

Since 2006 Full Professor in Imaging Sciences (Philip Harris Chair),
King's College London

1996-2006 Principal Scientist, Philips Research Hamburg

University Education

1993 - 1996 PhD, Biology/Chemistry, University of Bremen

1986 - 1993 MEng, Electrical Engineering, TU-Berlin

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Awards - Functions - Editorial Boards

Since 2019	Member of the Berlin-Brandenburg Academy of Sciences
Since 2019	Member of Einstein Centre Digital Future
Since 2015	Editorial Board Biomedical Engineering, De Gruyter
Since 2010	Member of EPSRC Engineering Panel
Since 2010	SCMR Program Board, Science Committee
2006	Development of Quantitative MRI (Philips Research Innovation Award)
2001	Development of Real-Time MRI (Philips Research Innovation Award)
2000	Real-time reconstruction hardware (Philips Research Innovation Award)
Since 1996	Member of ISMRM with various functions
1990 – 1993	German National Academic Found. (Studienstiftung des Deutschen Volkes)

Teaching and Supervision

2015-	MRI Module of Master study – TU-Berlin
2006 -	Supervision of more than 25 PhD students
2010 - 2015	Development of Bachelor programme Biomedical Engineering (BEng), King's College London. Module-lead for electrical engineering, electromagnetism, signals and systems. Teaching and examinations.
2007 - 2015	Cardiac MRI Course of Bachelor-Studiengang Rad. Sciences, King's College London.
2007 - 2015	MRI Module Lead of Master study Medical Physics, King's College London. Teaching and examinations
July 2012	Organizer of the Mayneord Phillips Summer School in imaging and computational modelling, Oxford University.
July 2007	Course at Mayneord Phillips Summer School in PET/MRI, Oxford University
2002 - 2006	Teaching of "medical imaging systems" a part of MEng study at TU Hamburg.

Grants

2018 - 2022	DFG-CRC 1340 - Matrix in Vision Co-I , 450k€ (total 9M€)
2017 - 2021	DFG-RTG 2260 BioQic, Co-I , 350k€ (total 4.497M€)
2016 - 2019	DFG-Project grant, Magnetic Particle Imaging, PI 180k€
2016 - 2019	EU-EMPIR, Perfusion Imaging, PI , 600k€ (total 2.1M€)
2016 - 2020	Wellcome Trust, MR-GAST-VT Co-I , 300k€ (total 2.5 M€)
2014 - 2022	EPSRC Centre for Doctoral Training in Medical Imaging, PI , total 12M€
2014 - 2016	EPSRC/TSB, Multi-parametric Imaging of Atherosclerosis, PI , 400k€
2013 - 2019	EPSRC/Wellcome Trust, IEH-Program, Co-I , total: 12M€
2013 - 2017	CRUK Cancer Imaging Centre, Co-I ,500k€ (total 1.8M€)

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- 2013 - 2016 MRC - Clinical Training Fellowship Quant. Cancer Imaging, **PI**, 300k€
- 2013 - 2015 EPSRC, CHECS Project Grant, **PI**, 500k€
- 2012 - 2016 EU- VP2HF **Co-I** 300k€ (total 12.5M€)
- 2010 - 2017 CRUK Cancer Imaging Centre. **Co-I** ,400k£, (total 6.1M£)
- 2010 - 2015 EU-FP7, SUBLIMA. **Co-I**, 1.043M£, (total 11.7M£)
- 2010 - 2015 EPSRC-Programme Grant: Intelligent Imaging, motion, form and function across scale. **Co-I**, 983k£, (total 5.3M£).
- 2010 - 2012 GSTT-Charity, research training fellowship, Development of a multi-parameter MRI examination to characterise aortic dissection, **PI**, 206k£.
- 2010 - 2012 BHF, Training Fellowship, "True validation of quantitative myocardial perfusion magnetic resonance imaging" **Co-I**, 129k£.
- 2010 - 2012 MRC, DPFS, "Development of patient- specific measure of isobaric aortic stiffness in hypertensive patient **Co-I**, 305k£.
- 2009 - 2020 Wellcome Trust/EPSRC Medical Eng. Centre. **Co-I**, 1.8M£, (total 10,9M£).
- 2009 - 2012 BHF, Training Fellowship, "Assessment of left ventricular grey zone using MRI to predict ventricular arrhythmias" **Co-I**, 145k£.
- 2009 - 2011 BHF, Training Fellowship "MRI of inflammation and extracellular matrix formation in atherosclerosis and vascular injury", **Co-I**, 163k£.
- 2009 - 2011 Philips Healthcare, "3D Imaging Ablation Guidance (3DIAG)", **Co-I**, 232k£.
- 2009 - 2012 EPSRC, Grand Challenge: "Translating biomedical modelling into the heart of the clinic", **Co-I**, 867k£.
- 2008 - 2011 EPSRC, Project Grant "Magnetic Resonance Guided Therapy of Cardiac Arrhythmia (MaRGiTA)", **PI**, 499k£.
- 2008 - 2011 EU-FP7, HYPERIMAGE: Hybrid PET-MR system for concurrent ultra-sensitive imaging, **Co-I**, 513k£, (total 6M€).
- 2008 - 2012 EU-FP7, "EuHeart", **Co-I**, 1.539M£, (total 8M€).
- 2008 - 2010 BHF, Project-grant "Magnetic resonance-T1 relaxation time mapping as a method of measuring thrombus size and organization", **Co-I**, 151k£.
- 2007 - 2010 Department of Trade and Industry, "Virtual Arthroscopy Trainer for Minimal Access Surgery (VATMAS)", **PI**, 139k£.
- 2007 - 2011 EU-FP6, "MEDITRANS- Targeted delivery of Nanomedicine", **Co-I**, 650k€, total 10.728M€
- 2006 - 2009 Schering-AG, "Improved diagnosis of congenital heart disease by MRI using Vasovist", **PI**, 21k£.
- 2006 - 2009 EPSRC: Time Resolved whole-heart cardiac imaging using highly parallel magnetic resonance. **Co-I** 468k£.
- 2006 - 2009 EPSRC/DTI. "Electro-anatomical fusion for guiding EP procedures and patient specific modeling (EPIGRAM), **Co-I**, 404k£.
- 2005 - 2008 BMBF, Verbundprojekt "Entwicklung targetspezifischer MR-Kontrastmittel auf Eisenoxid-Nanopartikel-Basis zur bildgestützten Diagnose und Therapie von Tumoren" (Eisenherz), **Co-I**, 1.229 M€ (total: 7.5M€).
- 2004 - 2007 BMBF, Verbundprojekt: Zeitaufgelöste Fluoreszenzmammographie (FLUOROMAMM) , **Co-I**, 656k€, total: 5M€.