

Education and Degrees

1982 Abitur, Gymnasium Georgianum Vreden, Germany
1985 B.A. Computer Science B.A. Mathematics, Brandeis University (Wien International Scholar)
1990 Ph.D., Stanford University (Sloane Fellow)
1996 Habilitation, Universität Bonn (DFG Fellow)

Appointments

1990-1992: SERC Research Assistant and JRF Clare Hall, Cambridge University
1992-2010: Tutor at Merton College and Lecturer at Oxford University
Since 2010: Professor of Mathematics (RSIV), Oxford University
2008-2009: Principal of Postmasters (Dean), Merton College
2012–2014: Subwarden (Vice President), Merton College
2016–2018: Deputy Head of Department, Oxford University
2018: Vice President (interim), Royal Society
2020: Chern Visiting Professor, MSRI Berkeley

Distinctions and Honours

Sloan Fellow, Stanford 1989-1990
International Congress of Mathematicians, invited lecturer, Beijing 2002
Whitehead Prize, London Mathematical Society 2004
Bessel Research Prize, Humboldt Stiftung 2008
Fellow of the Royal Society, FRS 2008
Inaugural Fellow of the American Mathematical Society, 2012
Member of the German National Academy Leopoldina, ML 2017
IMU Circle, 2018

Named Lectures

ADVANCE Lecturer, Washington University 2005
Mary Cartwright Lecturer, London Mathematical Society 2006
Chaire de la Vallée-Poussin, lecture series, UCL Louvain 2006-2007
Emmy Noether Lecturer, Deutsche Mathematiker Vereinigung 2009
Ladyzhenskaya Vorlesung, Leipzig 2011
AMS Current Events Lecturer, New Orleans 2011
Abel Conference, in honour of John Milnor 2012
Distinguished Colloquium, PIMS/UBS Vancouver 2013
Hirzebruch Lecture, Münster 2015
Tondeur Lectures, UCIU 2017
Pinsky Lectures, Northwestern University 2018
Hausdorff Kolloquium, Bonn University 2019
Abel in Jerusalem 2020
Distinguished Lecturer, Fields Institute, 2020
Moursund Lectures, Oregon 2020
Gauss Lecture, DMV 2020
IMU Centennial, Mathematics without Borders, Strasbourg 2020

Major Grants

EPSRC Advanced Fellowship, 1997–2003

NSF Focused Research Group (Senior Scientist), 2003–2006

EPSRC New Approaches to Data Science (Co-PI), 2.8 million pounds, 2018–2022

Editorial Boards

Oxford Quarterly Journal of Mathematics, 2000–2020

Algebraic and Geometric Topology, since its foundation in 2000

Topology, 2002–2006

London Mathematical Society Proceedings/Journal/Bulletin, 2004–2007

London Mathematical Society Student Texts, 2007 – 2017

London Mathematical Society Lecture Notes, since 2018

Journal of Topology, **founding and managing editor**, 2007 – 2017

Ergebnisse der Mathematik und ihrer Grenzgebiete, Springer, since 2015

Geometry & Topology, since 2017

Journal of the American Mathematical Society, JAMS, since 2018

Bulletin of the American Mathematical Society, since 2019

Forum of Mathematics, Pi and Sigma, since 2019

International Scientific Committees, selected

International Review Committee of Mathematics in Norway (Chair), 2011

Advisory Board (Vice-Chair), Mathematisches Forschungsinstitut Oberwolfach, since 2013

AMS Moore Research Article Prize Selection Committee, 2013–2017

AMS Veblen Prize Selection Committee, 2018 – 2021

Scientific Committee, Barcelona Graduate School of Mathematics, 2015 – 2019

International Review Committee, Vienna University, 2015

HCM Scientific Advisory Board (Chair), Hausdorff Centre for Mathematics Bonn, since 2017

MPI International Scientific Advisory Board, Leipzig, since 2017

ICM Section Committee – Topology: Hyderabad 2010, Seoul 2014

ICM Programme Committee: Rio 2018

IMU Executive Committee (observer)

FWF Austrian Science Foundation: Scientific Advisory Board, since 2019

National Scientific Committees, selected

LMS Prizes Committee, 2007–2009, 2015–2018

LMS Publications Committee, 2007–2012

LMS Council, 2008–2014

LMS Research Meetings Committee (Chair), 2011–2014

ICMS Programme Committee, International Centre for Mathematical Sci., Edinburgh, 2005 – 2017

INI Management Committee, Isaac Newton Institute, Cambridge, since 2015

ATI Programme Committee (Chair), Alan Turing Institute, Jan 2016 – Jun 2017

RS International Grants Panel, Royal Society 2007–2011 (Chair from 2010)

RS Section Panel 1, Royal Society 2008–2011

RS Wolfson Merit Award Committee, Royal Society, 2016–2019

RS Council, Royal Society, since 2018

Vice-President of the Royal Society, Apr – Nov 2018

RS Education Committee (Chair), since 2020

Outreach and Women in Mathematics, selected

EMS–EWM Scientific Committee (Chair) 2008 – 2012, member until 2020

Scientific Committee (Chair) for ICWM, the first international women’s meeting prior to ICM 2010

EMS–EWM Steering Committee (Chair) for summer schools at the Mittag-Leffler Institute 2015– 20

Women in Topology (WIT) group leader 2016

Women in Mathematical Physics group leader 2020

Pathways to Excellence, Uppsala 2015

OxFest, Oxford 2016

Women in Maths Day, key-note speaker, King’s College London 2017

Women in Data Science, Turing Institute 2018

Women at the Intersection of Mathematical and Theoretical Physics, Hamburg 2018

Maths in Action, Warwick 2018

Research Students

Paul Higgins, Tilman Bauer (MRes), Paolo Salvatore, Paul Mitchener, Nathalie Wahl, Chris Douglas (MRes), Cataharian Carvalho, Graham Hope, Jeff Giansiracusa, Elizabeth Hanbury, George Raptis, Oscar Randal-Williams, Martin Palmer, Rozy Juer (MRes), Richard Manthorpe (MRes), Hongyun Yon, Simon Gritschacher, Nina Otter, Renee Hoekzema, Tom Zeman, Barbara Mahler,