

# Curriculum Vitae for Melvyn B. Davies

## Contact information

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## Education (listed in reverse chronological order)

1992    PhD, Thesis “Stellar encounters in globular clusters”  
Supervisor: Willy Benz, Harvard University  
1989    AM in Astronomy, Harvard University  
1988    BA (1st class hon.) in Physics, University of Oxford

## Professional appointments/positions (listed in reverse chronological order)

2005 –    Professor of Astronomy, Lund University  
2004 – 2009    Royal Swedish Academy of Sciences Research Fellow, Lund University  
2003 – 2004    Reader, University of Leicester  
2002 – 2003    Lecturer, University of Leicester  
1995 – 2002    Royal Society University Research Fellow, Cambridge and Leicester  
1992 – 1994    Richard Chase Tolman Research Fellow, Caltech  
1988 – 1992    PhD position, Harvard University

## Honours and Awards

2009    Elected Member, Royal Physiographic Society  
2003    Royal Swedish Academy of Sciences Research Fellowship  
2001    Merit Award from the Royal Society  
1997    Merit Award from the Royal Society  
1994 – 2002    Royal Society University Research Fellowship  
1992 – 1995    Richard Chase Tolman Research Fellowship, Caltech  
1991    Danforth Teaching Certificate for excellence in teaching, Harvard University  
1990    Danforth Teaching Certificate for excellence in teaching, Harvard University  
1989 – 1990    Jewitt Fellowship from Harvard University  
1988 – 1989    Leo Goldberg Fellowship from Harvard University  
1986 – 1988    Open scholarship awarded by Jesus College, Oxford

## Supervision of

### PhD students (main supervisor)

Vernon Bailey (PhD 1999)  
Tim Adams (PhD 2003)  
Johann Dischler (PhD 2006)  
Daniel Malmberg (PhD 2010)  
Alexey Bobrick (started 2011)  
Giorgi Kokaia (started 2015)

### Postdocs

Stephan Rosswog (2000–2003)  
Alison Sills (2000–2001)  
Jim Dale (2004–2007)  
Chunglee Kim (2008–2010)  
Ross Church (2011–2012)  
Alexander Mustill (from 2014)

## Expert appointments and other external activities

- 2016 – Coordinator in Lund, eSSENCE e-science strategic research area
- 2016 – Member of Lunarc Board
- 2014 – Member of Board, CHEOPS Space Mission
- 2013 – Editorial Board, *Physica Scripta* (Journal of Royal Swedish Academy of Sciences)
- 2012 – Co-chair of steering group and PI of COMPUTE research school
- 2011 – Member of APEX Board
- 2011 – 2014 Swedish Research Council RFI Bg-1
- 2009 – Member of LOFAR-Sweden Executive Committee
- 2009 – 2011 Senior advisor on internationalisation and member, Lund University International Policy Group
- 2008 – 2010 Member of Onsala Board
- 2008 Director, Lund Observatory (*Prefekt*)
- 2006 – 2008 Member of Science Faculty appointments and promotions committee (*Läraryörelsen*)
- 2005 – 2006 Member of XMM-Newton Time Allocation Committee
- 2005 – 2010 Member of Onsala/APEX Time Allocation Committee
- 2005 – Referee for Professorial positions and promotion applications
- 2004 – 2007 Swedish Research Council grant panel for sub-atomic physics and astrophysics
- 2003 – 2004 Member of Science Faculty Board, University of Leicester
- 2002 Member of international panel reviewing grant applications in Portugal
- 2001 – 2004 Member of British PPARC Astronomy Theory Grants Panel
- 1996 – Review of grant applications from several countries, including Austria, Canada, Germany, Israel, Italy, The Netherlands, UK, and USA
- 1993 – Acted as expert referee for journals (*Nature*, *A&A*, *ApJ*, *ApJLetters*, *MNRAS*)

## Research support (PI unless otherwise stated)

- 2015 – 2020 22.6 MSEK, Knut and Alice Wallenberg Foundation
- 2013 – 2016 4 MSEK, Swedish Research Council, Breakthrough Research Grant (Co-I)
- 2008 – 2012 2.8 MSEK, Scientist-in-charge for Marie Curie Fellowships
- 2007 – 2008 0.2 MSEK, Wenner-Gren Foundation, Funding for a research fellow
- 2006 – 2007 0.2 MSEK, Swedish National Spaceboard, Research Grant
- 2004 – 2009 3.5 MSEK, Royal Swedish Academy of Sciences (KVA) Research Fellowship
- 2003 – 2014 3.7 MSEK, Swedish Research Council, Research Grants
- 2001 – 2005 713 K pounds, PPARC rolling grant (Co-I)
- 2000 – 2003 138 K pounds, PPARC research grant
- 1995 – 2002 200 K pounds, Royal Society University Research Fellowship

## Professional memberships

- Member, Royal Physiographic Society ([www.fysiografen.se](http://www.fysiografen.se))
- Fellow, Royal Astronomical Society (UK) ([www.ras.org.uk](http://www.ras.org.uk))
- Member, American Astronomical Society ([www.aas.org](http://www.aas.org))
- Member, International Astronomical Union ([www.iau.org](http://www.iau.org))
- Fellow, Higher Education Academy (UK) ([www.heacademy.ac.uk](http://www.heacademy.ac.uk))

## Organisation of international conferences

SOC memberships for several international conferences, including most recently: Computational Physics with GPUs (Lund, 2010), Ecology of Blue Stragglers (Santiago, 2012), Nordic Physics Days Meeting (Lund, 2013), The Formation of the Solar System (Bonn, 2014), The Dance of Stars (Bad Honnef, 2014), Exoplanets in Lund (Lund, 2015), The Formation of the Solar System II (Berlin, 2015), Star Clusters as Cosmic Laboratories for Astrophysics (Bologna, 2016), Binaries in Cambridge (Cambridge, 2016), The Physics of Extreme-Gravity Stars: Using Binaries to Probe the Violent Universe – I am one of the organisers for this three-week programme (Nordita, 2017).

Instigator (and chair of SOC) for a series of meetings in Lund intended to develop Scandinavian astronomy by enhancing interactions between universities: Apex/Alma for all (2007), Gaia for all (2008), Extreme astrophysics for all (2009), Exoplanets for all (2010), Building galaxies for all (2011), Stars for all (2012), Cosmology for all (2013), Star and planet formation for all (2014), The Transient Universe for all (2015), Surveys for all (2016).

## Invited presentations

Over 50 invited talks at international conferences, seminars, and colloquia since 2008. Most recently, I have given invited conference talks and seminars/colloquia in Aarhus, Aspen, Birmingham, Bologna, Boulder, Cambridge, Garching, Kobe, Nijmegen, Padua, Sexton and Turku.

## Invited visiting positions/fellowships

Invited memberships at Aspen Center for Physics (2005, 2011, 2014); Kavli Institute of Theoretical Physics, Santa Barbara (2009, 2010, 2013); Isaac Newton Institute for Mathematical Sciences, Cambridge (2009); Albert Einstein Institute, Potsdam (2006, 2008); Nordita, Stockholm (2009); Ringberg Castle, Max Planck Society (2010, 2012, 2014); Chicheley Hall, Royal Society (2012); and Lorentz Center, Leiden (2009, 2011, 2012, 2015).

## Popular scientific presentations since 2008

- 2008 Popular article on gamma-ray bursts in *Forskning och Framsteg* magazine
- 2008 Delivered public lecture on supernovae at the Lund Culture Night
- 2009 Involved in a television programme on hypernovae and gamma-ray bursts
- 2009 Wrote a News & Views Article *Stellar revival in old clusters* (Davies, M.B., 2009, Nature, 462, 991)
- 2010 Delivered public lecture on the habitability of exoplanets at the Lund Culture Night
- 2011 Delivered lecture to high-school students about black-hole formation in galactic nuclei
- 2012 Delivered public lecture about stability of planetary systems
- 2013 Supervised the production of outreach material on gamma-ray bursts published on youtube
- 2013 Public lecture about black-hole formation
- 2014 Delivered public lecture on the dynamically evolution of exoplanets at the Lund Culture Night
- 2015 Demonstration of computer simulations to the public at departmental open evening