

Richard de Grijs

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Citizenship: Netherlands; Australian permanent resident

h-index: 55

Current appointments

07/2023–present **Executive Director**
International Space Science Institute–Beijing (China)

03/2018–present **Professor of Astrophysics**
School of Mathematical and Physical Sciences, Macquarie University
(Sydney, Australia)

HONORARY APPOINTMENTS

07/2023–present **Visiting Professor**, National Space Science Center, Chinese
Academy of Sciences, Beijing (China)

09/2022–present **Associate**, INASP (International Network for Advancing Science
and Policy)

02/2021–present **Associate Editor**, *Journal of Astronomical History and Heritage*

09/2002–present **Senior Research Fellow**
Hughes Hall (**prize fellowship**, for life) and Wolfson College,
Cambridge University (UK)

Previous appointments

08/2022–11/2023 **Specialty Chief Editor** (Fundamental Astronomy), *Frontiers in
Astronomy and Space Sciences* (resigned owing to high workload)

03/2018–02/2021 **Associate Dean (Global Engagement)**
Faculty of Science and Engineering, Macquarie University (Australia)

09/2009–02/2018 **Professor of Astrophysics**
Kavli Institute for Astronomy & Astrophysics (KIAA) and
Department of Astronomy, Peking University (China)

04/2012–12/2015 **Associate Director**
Kavli Institute for Astronomy & Astrophysics, Peking Univ. (China)

12/2007–12/2010 **Reader, Senior Lecturer, Lecturer in Astrophysics**

10/2005–11/2007 Department of Physics & Astronomy, University of Sheffield (UK)

06/2003–09/2005

11/2000–05/2003 **Research Fellow**
Institute of Astronomy, University of Cambridge (UK)

11/9117–10/2003 **Research Associate**
Astronomy Department, University of Virginia (USA)

PREVIOUSLY HELD HONORARY APPOINTMENTS

04/2015–04/2021 **Discipline Scientist (Astrophysics)**
International Space Science Institute–Beijing

09/2012–06/2018 **Deputy Editor**
The Astrophysical Journal Letters

09/2016–02/2018 **Joint professor**
China West Normal University (Sichuan, China)

05/2015–02/2018	Visiting professor Qiannan Normal College for Nationalities (Guizhou, China)
02/2013–01/2014	Visiting Academy Professor (held at Leiden Univ., Netherlands) Royal Netherlands Academy of Arts and Sciences (KNAW)
08/2012–08/2016	Founding director East Asian Regional Office of Astronomy for Development (EA-ROAD), International Astronomical Union (IAU)
12/2010–02/2018	Guest professor Shanghai Astronomical Observatory (China)
03/2010–02/2012	Honorary Reader Department of Physics & Astronomy, University of Sheffield (UK)
11/2006–08/2012	Scientific Editor <i>The Astrophysical Journal</i>
04/2011–03/2012	Visiting professor (distinguished international scholar) Kyung Hee University (Republic of Korea)
09/2005–08/2009	Adjunct Professor National Astronomical Observatories, Chinese Academy of Sciences, Beijing (China)

Education

1993–1997	Ph.D. in Astrophysics , University of Groningen (Netherlands) Ph.D. Thesis (31 October 1997): <i>Edge-on Disk Galaxies A Structure Analysis in the Optical and Near-Infrared</i> ; <i>Advisers</i> : Prof. P. C. van der Kruit, Prof. R. F. Peletier
1988–1992	M.Phil. (Physics & Astronomy) , University of Groningen (Netherlands) (Dutch “doctorandus”)

Professional affiliations

2003–present	Member, International Astronomical Union (IAU)
2021–present	– President, IAU Division C (Education, Outreach and Heritage)
2018–2021	– Vice President (elected), IAU Division C
2015–2018	– President (elected), IAU Commission H4 (Star clusters)
2015–2018	– Steering Committee, IAU Division H (Local Universe; <i>ex officio</i>)
2012–present	– Assessor, IAU Office of Astronomy for Development
2012–2015	– Vice President (elected), IAU Commission 37
2012–2018	– IAUC55 Working Group on Outreach Professionalisation/Accreditation
2009–2012	– Organising Committee member, IAU Commission 37 (Star clusters)
2023–present	Member, Australasian Academic Integrity Network
2018–present	Fellow, Astronomical Society of Australia
2008–present	Fellow, Institute of Physics (FInstP) (UK and Ireland)
2005–2008	– Member, Institute of Physics (MInstP)
2006–present	Fellow, Higher Education Academy/Advance HE (FHEA)
1991–present	Member, Netherlands Astronomical Society
2016–2018	Member, Asian Council of Science Editors
2011–2018	Member, Chinese and Beijing Astronomical Societies
2009–2018	High-level Foreign Expert, State Admin. of Foreign Experts Affairs, China
2007–2018	Member, American Astronomical Society
2005–2010	Voting member, British Association for the Advancement of Science
2003–2009	Fellow, Royal Astronomical Society (FRAS)

Professional recognition

AWARDS AND NOMINATIONS

- 12/2023 **Excellence in Research Integrity Award**, Macquarie University
- 09/2022 **1st prize**, Blacktown Mayoral History Prize (Sydney, Australia)
- 10/2021 (1) **Runner-up**, Hella Mannheimer/Hektoen Grand Prix Essay Competition
(2) Nomination, **Research Excellence Award**; Faculty of Science and Engineering, Macquarie University
- 04/2021 **2nd prize**, *2021 Outstanding Communication in Colour*, The Colour Group (GB)
- Since 2019 **Certified high-level talent (Category A)**, State Administration of Foreign Experts Affairs, China (distinction valid for 10 years)
- Since 2018 **Australian Principal Investigator**, Large Synoptic Survey Telescope (LSST)/Vera Rubin Observatory
- 2018 **Top-100 education innovation award**, *astroEDU* (awarded to the entire *astroEDU* editorial board by **HundrED**)
- 2017 (1) **Erskine award** (fellowship), University of Canterbury, New Zealand
(2) **Finalist, 2017 Flame Challenge** (global science communication award; written category), Alda-Kavli Learning Center for Science Communication, Stonybrook University, New York, USA
(3) **Outstanding Undergraduate Instructor award**, Peking Univ., China
- 2016 **Runner-up**, *Chang Jiang Chair Professor*, Chinese Ministry of Education (highest ministerial honour)
- 2015 (1) **Excellent performance award**, Peking University, China
(2) **Outstanding doctoral dissertation award**, LI Chengyuan, Peking University (award shared between student and adviser)
- 2015, 2017 Merit Prize, **Asian Scientist Writing Prize**, *Asian Scientist Magazine/Science Centre Singapore*
- 2015–2018, Inclusion on the *Elsevier/Scopus Most Highly Cited Chinese Scholars in 2022, 2023* **2014, 2015, 2016, 2017, 2021, 2022** lists
- 2014, 2015, 2017 Nomination, **Top-10 achievement** in astrophysics research in China (2013, 2014, 2016)
- 2013 **Visiting Academy Professor**, Royal Netherlands Academy of Arts and Sciences
- 2012 (1) Royal Astronomical Society **Group Achievement Award (Astronomy)**, UKIDSS consortium
(2) **Selby award for excellence in science**, Australian Academy of Science
- 2007 (1) British Association for the Advancement of Science **award lecture**
(2) **Exceptional contribution award**, University of Sheffield
(3) Nomination, National science, engineering and technology (SET) **schools outreach award**, SETNET (UK government)
- 2005 **Runner-up**, Lord Kelvin award lecture, British Association for the Advancement of Science
- 1998 **"Van Swinderen" public outreach award** 1997–1998, Royal Netherlands Physical Society

INTERNATIONAL COMMITTEES, ADVISORY BOARDS AND CONSULTANCY (SELECTION)

- 08/2021–present **President**, IAU Division C (Education, Outreach and Heritage)
- 09/2021–present – **Member**, IAU Office of Astronomy for Development (OAD) Oversight Committee
- 08/2021–present – **Member** (*ex officio*), IAU Office of Astronomy for Education (OAE) Steering Committee
- 08/2021–present – **Member** (*ex officio*), IAU Office of Young Astronomers (OYA) Steering Committee
- 01/2020–12/2022 **Member**, *Physics World* Advisory Board (Institute of Physics)
- 03/2019 **Member** (invited), Assessment panel on Large-scale Research Infrastructure, VR/Swedish Research Council
- 08/2018–07/2021 **Vice President** (elected), IAU Division C
- 01/2017–12/2019 **Member** (nominated, elected), ORCID Board of Directors
- 2017 – **Chair**, 2018 Board Nomination Committee
- 03/2016–02/2020 **Member** (invited), *astroEDU* editorial board, IAU
- 11/2015–11/2017 **Honorary Editor**, *Journal of the Royal Asiatic Society China*
- 03/2014–present **Member**, Thirty Meter Telescope (TMT) International Science Development Teams (ISDTs) on “*The Milky Way and Nearby Galaxies*” and “*Formation of Stars and Planets*” (until 01/2016)
- 02/2016–12/2021 – **Chair**, TMT ISDT on “*Stars, Stellar Physics, and the ISM*”
- 09/2012–present Invited **tenure and promotion assessments**: USA, Canada, China, Netherlands, Australia
- 08/2011–present **Member** (invited), Maunakea Spectroscopic Explorer (MSE) Science Working Group on *Nearby Galaxies and Clusters*
- 03/2010–02/2018 Institute of Physics (UK) **International Coordinator** for China
- 2009 **Member** (invited), Science Advisory Committee of the European Virtual Observatory Initiative, Euro-VO (*ineffective due to my move to China*)
- 08/2009–08/2012 **Member** (elected), Organizing Committee (OC), IAU Commission 37 (Star Clusters)
- 09/2012–08/2015 – **Vice President** (elected), IAU Commission 37
- 09/2015–08/2018 – **President**, IAU Commission H4 (Star Clusters)
- 2009 **Member**, IAU Editorial Board (*ex officio*, as editor-in-chief of the proceedings of IAU Symposium 266)
- 11/2008–01/2010 **Guest editor** (invited), Editorial Board of *Philosophical Transactions A* (The Royal Society) for a special theme issue on “*Star clusters as tracers of galactic star-formation histories*”
- 11/2006–08/2012 **Scientific Editor**, *The Astrophysical Journal*
- 09/2012–06/2018 – **Deputy Editor**, *The Astrophysical Journal Letters*
- 07/2011–present – **Int’l Scientific Publishing Advisor** to the Editorial Board of the *International Journal of MCH & AIDS* (MCH: Maternal and Child Health), publishes original papers by authors in low- and middle-income countries; <http://www.mchandaids.org>
- 04/2007–03/2010 **Member** (invited), Physics & Astronomy advisory board, Springer
- 02/2007–08/2012 **Member** (invited), Editorial Board of the *Communicating Astronomy with the Public* journal
- 04/2007–03/2012 **Member** (invited), International Research and Development Advisory Board of the instrumentation project *Astrophysical Multipurpose Software Environment* (AMUSE; <http://www.amusecode.org>), funded by the Netherlands Research School for Astrophysics
- 01/2006–present **Core team member**, *VISTA near-infrared YJK_s survey of the Magellanic System (LMC, SMC, Bridge and Stream)* – VMC
- 03/2003–09/2003 **Member** (invited), Gemini Observatory working group on second-generation Gemini instrumentation; panel “*Structure and Evolution of the Milky Way and Nearby Galaxies*”

- 12/2001–01/2005 **Member** (invited), Astrophysical Virtual Observatory Science Working Group (AVO SWG), a study for the design and implementation of a virtual observatory for European astronomy, led by ESA and ESO with funding from the European Commission
- 01/2004–01/2005 – **Co-Chair**, *Normal Galaxies* working group
- 05/2001–12/2006 **Member** (invited), Science Definition Committee for the European Extremely Large Telescope (E-ELT); panel "*Stars and Galaxies*"

DOMESTIC COMMITTEES AND CONSULTANCY (SELECTION)

- 08/2023–present **Member**, Science and Technology Australia Policy Committee
- 06/2021–06/2023 **Councillor**, Astronomical Society of Australia
- 08/2020–06/2023 **Member/Council representative**, Astronomical Society of Australia Education and Public Outreach Chapter (ASA EPOC) Steering Committee
- From 02/2024 **Deputy chair**, ASA Time Domain Astrophysics (TDA) Chapter
- 07/2020–present **Member**, Australia–China consortium for Astrophysical Research (ACAMAR) Australian Advisory Board, Department of Industry, Science, Energy and Resources (DISER)
- 06/2020–03/2022 **Senior Adviser** (Job Level 3), Australia Awards in Indonesia Joint Selection Team, Department of Foreign Affairs and Trade (DFAT)
- 01/2020–12/2021 **Member**, Science Advisory Committee, Astronomy Australia Ltd. (ASAC)
- 01/2021–12/2021 **Deputy Chair** (elected), ASAC
- 03/2013–02/2015 **Consultant**, Beijing University of Chemical Technology, Joint/dual degree establishment with Dutch counterpart universities
- Round 2008/2009 **Invited to membership** of the Science and Technology Facilities Council (STFC)'s postdoctoral and advanced fellowships panel (*declined*)
- 09/2007–11/2009 **Member**, STFC/AAO Time Allocation Committee for the Anglo-Australian Observatory (AATAC)
- 02/2006 **Invited panel member** on a UK government (Office of Science and Innovation/Foreign Office)/Royal Society consultation on funding of scientific networking with China, India, South Korea and South Africa
- 09/2003–08/2006 **Member**, Particle Physics and Astronomy Research Council (PPARC) Time Allocation Committee for the 3.8m U.K. Infrared Telescope, UKIRT
- 04/2002–12/2012 UKIRT Infrared Deep Sky Survey (UKIDSS): **member** of the design and implementation teams of the Galactic Plane and Galactic Clusters Surveys

Dissemination of expertise

INVITED POST-GRADUATE LECTURE COURSES AND WORKSHOPS

09/2018	6 th Byurakan Int'l Summer School (4 hours), Byurakan Astrophysical Observatory, Yerevan (Armenia)
04-06/2017	<i>Erskine</i> lecture course on " <i>Distance Measurement in Astronomy</i> " (15 hours + 5 hours of tutorials), Univ. of Canterbury, Christchurch (New Zealand)
09/2016	5 th Byurakan Int'l Summer School (4 hours), Byurakan Astrophysical Observatory, Yerevan (Armenia)
07/2015	International summer school on " <i>The Extragalactic Distance Scale</i> " (3 hours), Univ. of Tokyo (Japan)
08/2014	International summer school on " <i>Binary systems, their evolution and environments</i> " (6 hours), Nat'l Univ. of Mongolia, Ulaanbaatar (Mongolia)
12/2013	Postgraduate workshop on " <i>International Collaboration in Research</i> " (2×3 hours), Waseda University, Tokyo (Japan)
11/2013	Postgraduate workshop on " <i>International Collaboration in Research</i> " (3 hours), Huazhong University of Science and Technology, Wuhan (China)
09-10/2013	Postgraduate course on " <i>Distance Measurements in Astronomy</i> " (28 hours), Leiden University (Netherlands)
08/2013	Postgraduate workshop on " <i>Writing Academic Articles in English</i> " (3 hours), Pohang University of Science and Technology (Republic of Korea)
02/2013	Guest lecturer, interuniversity course on computational astrophysics, Utrecht (Netherlands)
10-12/2011	Invited post-graduate lecture course on " <i>Distance Measurement in Astronomy</i> " (28 hours), Kyung Hee University (Republic of Korea)
20/2011	<i>Observational Astronomy Summer School 2011</i> (4 hours on technical aspects of telescopes, instruments and detectors), Peking Univ. (China)
09/2010	Invited keynote lecture at the closing ceremony of the International Olympiad in Astronomy and Astrophysics, Beijing (China)
01/2010	Invited post-graduate lecture course on " <i>Advanced Topics in Contemporary Star Cluster Research</i> " (3 lectures), Université Laval, Québec City (Canada)
12/2009	Invited educational programme facilitation (4 lectures and night-time observations), Cunard Lines (<i>Queen Mary 2</i>)
05/2009	Invited post-graduate lecture course on " <i>Advanced Topics in Contemporary Star Cluster Research</i> " (4 lectures), Institute for Theoretical Physics and Mathematics/Sharif University, Tehran (Iran)
01/2008	Invited post-graduate lecture course on " <i>Advanced Topics in Stellar Evolution: Galaxy and Star Cluster Evolution</i> " (10 lectures), Yunnan Astronomical Observatory, Chinese Academy of Sciences (CAS), Kunming (China)
09/2006	Distinguished international lecturer , post-graduate course on " <i>Advanced Topics in Stellar Evolution: Galaxy and Star Cluster Evolution</i> " (10 hours), National Astronomical Observatories, CAS, Beijing (China)

INVITED TALKS AT INTERNATIONAL CONFERENCES (since 09/2009)

- 07/2023 12th Applied Optics and Photonics Conference China (AOPC2023), Chinese Society of Optical Engineering; **plenary keynote speaker, invited topical speaker, session chair**
- 04/2023 IAU Symposium 376, *At the crossroads of astrophysics and cosmology: Period–luminosity relations in the 2020s*; **SOC chair**
- 10/2022 ACAMAR8: Australia–China Workshop on Astrophysics; **plenary + contributed speaker, SOC member, prize coordinator**
- 08/2022 IAU General Assembly (Busan, South Korea); **invited speaker**, Junior members chapter; **session chair**, Focus Meeting 4 (*UV insights into star and cluster formation*); **panel member**, IAU Offices meeting; **SOC chair**, Division C Days (*Education, Outreach and Heritage*)
- 11/2021 ACAMAR7: Australia–China Workshop on Astrophysics; **invited speaker, SOC member**
- 05/2021 Communicating Astronomy with the Public (CAP) 2021, online; **invited panellist**
- 01/2021 PIDapalooza 2021, virtual workshop; **invited speaker**
- 11/2020 ACAMAR 2020, virtual workshop; **LOC member, session chair, poster awards committee chair**
- 06/2020 H₀: Assessing uncertainties in Hubble’s constant across the Universe, ESO e-conference; **invited panellist**
- 05/2020 ORCID UK Research Experience Panel, e-meeting; **invited chair**
- 05/2019 (1) ORCID consortium conference, Atlanta (GA), USA; **invited speaker**
(2) “Star clusters: from the Milky Way to the early Universe”, IAU Symposium 351, Bologna, Italy; **panel discussion**
- 09/2018 Viktor Ambartsumian 110th Anniversary Conference, Byurakan Astrophysical Observatory, Yerevan, Armenia; **invited speaker, session chair**; official welcome on behalf of the IAU
- 08/2018 Division H Days (“The Local Universe”), IAU XXXth General Assembly, Vienna (Austria); **invited speaker, Scientific Organising Committee (SOC) member, session chair**
- 11/2017 Thirty Meter Telescope Forum 2017, Mysore, India; **invited speaker**
- 10/2017 XIth Luoxiahong Astrophysics workshop, Nanchong (Sichuan), China; **review speaker**
- 09/2017 “Stellar Populations and the Distance Scale”, Peking University, China; **invited speaker, SOC co-chair**
- 02/2017 (1) “Frontiers in Theoretical and Applied Physics”, American University of Sharjah, UAE; **invited speaker**;
(2) Workshop on Active Galactic Nuclei and Galaxy Evolution, KIAA/Peking University, China; **invited speaker, SOC member**
- 12/2016 8th Korea–China–Kazakhstan Workshop on Stellar Dynamics and Related Fields, Kunming, China; **invited speaker, session chair**
- 11/2016 (1) “22nd Los Alamos Stellar Pulsation Conference”, San Pedro de Atacama, Chile; **invited review speaker (declined)**;
(2) “Sino–European Research Conference”, European Union Delegation to China, Beijing, China; **keynote speaker**, workshop organizer, panel chair, competition judge
- 10/2016 “Sino–Europe Forum on Education Policy Think Tanks”, National Center for Education Development Research (Ministry of Education), Beijing, China; **invited speaker**
- 09/2016 70th Anniversary Conference, Byurakan Astronomical Observatory, Yerevan, Armenia; **invited speaker, session chair**; official welcome on behalf of the International Astronomical Union
- 05/2016 “Astronomical Distance Determination In The Space Age”, International Space Science Institute–Beijing, China; **SOC chair, invited speaker**

- 03/2016 3rd Regional coordinators conference, Office of Astronomy for Development, Cape Town, South Africa; **invited senior partner**
- 01/2016 American Astronomical Society Winter Meeting 2016, **session chair**, Kissimmee, FL (USA)
- 12/2015 International Conference on Science and Civilization on the Silk Roads, Urumqi (Xinjiang, China); **invited speaker**
- 09/2015 Chinese Physical Society annual conf., Changchun; **keynote speaker**
- 08/2015 (1) "The Milky Way: Disk and open clusters", **invited review**, Delingha (Qinghai, China)
- (2) "Formation, Evolution and Survival of Massive Star Clusters", IAU Symposium 316, IAU XXIXth General Assembly, Honolulu HI, USA; **invited review, discussion chair**
- 05/2015 KIAA/Shanghai Astronomical Observatory bilateral science meeting, **SOC member, session chair**, Beijing (China)
- 04/2015 "Gamma-ray bursts: A tool to explore the young Universe", International Space Science Institute–Beijing, **invited review** on Galactic Archaeology
- 03/2015 "MODEST-15 – Modelling and Observing Dense Stellar Systems in Chile", **invited speaker, session chair**, Concepción, Chile
- 01/2015 American Astronomical Society Winter Meeting 2015, **session chair**, Seattle, WA (USA)
- 11/2014 (1) International Space Science Institute–Beijing Forum, **invited participation**, Beijing (China)
- (2) "International Symposium on the Sino–French Geodetic Survey of the Qing Empire in the 18th Century ", **invited talk, session chair**, Sanya (Hainan), China
- 09/2014 "Binary Systems, their Evolution and Environments", **SOC chair, opening talk**, Ulaanbaatar (Mongolia)
- 08/2014 Asia/Pacific Rim regional IAU meeting, Daejeon (Republic of Korea), **invitation to organize a session** on Astronomy for Development (*declined*)
- 06/2014 "MODEST-14 – The dance of stars: dense stellar systems from infant to old", **invited speaker, session chair**, Bad Honnef (Germany)
- 01/2014 American Astronomical Society Winter Meeting 2014, **Chambliss poster award judge, invited lecturer** at a "Workshop for Journal Authors and Referees", Washington, DC (USA)
- 08/2013 Korean Council of Science Editors workshop on Publication Ethics, **invited mini-workshop** (3 lectures), Seoul (Republic of Korea)
- 06/2013 (1) "Lin–Shu Symposium: 50 Years of Spiral Density Waves", Beijing (China)
- (2) "Small Stellar Systems in Tuscany: From Globular Clusters to Dwarf Galaxies and Everything in Between", Prato (Italy)
- 03/2013 "Dissecting Galaxies with 2D Wide-Field Spectroscopy", **session chair**, Lijiang (China)
- 02/2013 Institute of Physics (IoP) International Coordinators meeting, London (UK), **review** of the year in Chinese IoP coordination
- 01/2013 (1) Third Telescope Access Program conference, Beijing (China), **session chair**
- (2) American Astronomical Society Winter Meeting 2013, **Chambliss poster award judge, career advisors' panel member**, Long Beach, CA (USA)
- 11/2012 "Star Formation and Its Environment in the Center of Galaxies", Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)/National TsingHua University, **invited participation**, Hsinchu, Taiwan (*declined due to conflicting schedule*)

- 08/2012 (1) "Workshop for journal authors and referees", IAU General Assembly 2012, **invited coordination** as representative of *The Astrophysical Journal*;
 (2) "Advancing the physics of cosmic distances", IAU Symposium 289 (IAU General Assembly 2012), **introduction to the Symposium and of the plenary keynote speaker, summary talk, SOC chair**, Beijing (China)
- 07/2012 "Stellar populations 55 years since the Vatican Conference", Symposium 6 of the European Week of Astronomy and Space Science, **SOC co-chair, session chair** and **invited talk**, Rome (Italy)
- 05/2012 (1) "Shanghai Astronomical Observatory Astrophysics Symposium 2012", **invited talk**, Shanghai (China);
 (2) "EU-China Research Collaborations Through people-to-People Exchanges", 2nd Science and Technology Fellowship conference, **invited expert**, Beijing (China)
- 01/2012 Beijing-Guangzhou-Xiamen Astrophysics Meeting, Xiamen (China)
- 12/2011 "Office of Astronomy for Development inaugural stakeholders conference", **invited participant**, Cape Town (South Africa)
- 11/2011 2011 UN Peace BAR (Beautiful, Affluent, Rewarding) Festival: "The Body and Catastrophe: Towards a New Utopia" (in celebration of the 30th anniversary of the United Nations' International Day of Peace), **invited panelist**, Kyung Hee University, Seoul (Republic of Korea)
- 10/2011 Korean Astronomical Society Fall 2011 Meeting, **invited plenary keynote speaker**, Jeju Island (Republic of Korea)
- 05/2011 Stellar Clusters and Associations: A RIA Workshop on Gaia, **invitation to lead a plenary discussion** on "Birth, Evolution and Death of Stellar Clusters", Granada (Spain)
- 03/2011 1st Science and Technology Fellows Conference, "EU-China Research: A New Approach", **invited expert**, Beijing (China)
- 01/2011 American Astronomical Society Winter Meeting 2011, **session chair**, Seattle (USA)
- 11/2010 EANAM (East Asian Numerical Astrophysics Meeting) 2010, **invited talk**, Taipei (Taiwan)
- 10/2010 Fessenkov Readings, "Contemporary astrophysics: traditions and perspectives", dedicated to the 60th anniversary of the Fessenkov Astrophysical Institute, **invited talk** and **programme committee member** (by invitation), Almaty (Kazakhstan)
- 09/2010 "MODEST-10 (Modelling Dense Stellar Systems 2010)", **review talk, discussion leader, panel member** and **SOC member**, KIAA/NAOC, Beijing (China)
- 07/2010 "Compact super star clusters: birth, evolution and feedback", Guillermo Haro workshop 2010, **review talk, day chair** and **SOC member**, Puebla (Mexico)
- 04/2010 "From Stars to Galaxies", **introduction, session chair**, University of Florida, Gainesville (USA)
- 11/2009 "UK-China-Netherlands Frontiers of Science Symposium" (Royal Society, Netherlands and Chinese Academies of Sciences), **SOC member, session organizer**, Beijing (China)
- 08/2009 "Star Clusters – Basic Galactic Building Blocks throughout Time and Space", IAU Symposium 266 (IAU General Assembly 2009), **review talk, SOC chair**, Rio de Janeiro (Brazil)
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CONFERENCE ORGANISATION

08/2024	SOC member , IAU Symposium 393, <i>Planetary Science and exoplanets in the era of the James Webb telescope</i> ; IAU General Assembly, Cape Town
07/2023	Organising Committee Co-Chair , <i>12th Applied Optics and Photonics Conference China</i> (AOPC2023), Chinese Society of Optical Engineering
04/2023	SOC chair , IAU Symposium 376, <i>At the crossroads of astrophysics and cosmology: Period–luminosity relations in the 2020s</i> ; Budapest, Hungary (and hybrid)
12/2022	Program committee member , Australian Institute of Physics Congress 2022 (Australian Astronomical Society representative)
10/2022	SOC member , ACAMAR8: Australia–China Workshop on Astrophysics
09/2022	LOC chair and SOC member , <i>Communicating Astronomy with the Public (CAP) 2022</i> , Macquarie University, Sydney, Australia
08/2022	(1) SOC chair , Division C Days (“Education, Outreach and Heritage”), IAU XXXI st General Assembly, Busan, South Korea (2) SOC member , Office for Astronomy Outreach meeting, IAU XXXI st General Assembly, Busan, South Korea (3) SOC member , Office of Astronomy for Development meeting, IAU XXXI st General Assembly, Busan, South Korea
11/2021	SOC member , ACAMAR7: Australia–China Workshop on Astrophysics; virtual
09/2021	SOC chair , ACAMAR workshop on the Future of Traditional Survey Science; virtual
07/2019	SOC member , Annual meeting of the Astronomical Society of Australia, Brisbane, Australia
08/2018	SOC member , Division H Days (“The Local Universe”), IAU XXX th General Assembly, Vienna, Austria
06/2018	SOC member , MODEST-18 (“Dense Stellar Systems in the Era of Gaia, LIGO, and LISA”), Santorini, Greece
11/2017	Co-chair , Workshop on High-Resolution Spectroscopy, Thirty Meter Telescope Forum 2017, Mysore, India
10/2017	SOC member , Star clusters and the Milky Way – XI th Luoxiahong workshop in Astrophysics, Nanchong (Sichuan), China
09/2017	SOC co-chair , Stellar Populations and the Distance Scale, KIAA/Peking University, China
02/2017	SOC member , KIAA–PUC bilateral workshop on Active Galactic Nuclei and Galaxies, Peking University, China
09/2016	SOC member/lecturer , 5 th Byurakan International Summer School, Armenia
05/2016	SOC Chair , “Astronomical Distance Determination in the Space Age”, International Space Science Institute–Beijing, China
08/2015	SOC member , IAU Symposium 316 at the XXIX th IAU General Assembly on the “Formation, evolution, and survival of massive star clusters”, Honolulu (Hawaii, USA); also SOC member of a topical session on “Stellar physics in galaxies throughout the Universe”
05/2015	SOC member , KIAA/Shanghai Astronomical Observatory bilateral meeting, Beijing, China
09/2014	SOC Chair of a conference on “Binary Systems: Their Evolution and Environments”, Ulaanbaatar, Mongolia
08/2012	SOC Chair , IAU Symposium 289 at the XXVIII th IAU General Assembly on “Advancing the physics of cosmic distances”, Beijing, China
07/2012	Co-chair (invited), SOC of Symposium 6 at the European Week of Astronomy and Space Science 2012: “Stellar Populations 55 years after the Vatican Conference”, Rome, Italy, co-chair: G. Bono
10/2010	Programme committee member , Fessenkov Readings – “Contemporary astrophysics: traditions and perspectives”, Almaty (Kazakhstan)

- 09/2010 **SOC member (initiator)**, MODEST-10 (Modelling Dense Stellar Systems), Beijing (China)
- 07/2010 **SOC member** (invited), Guillermo Haro workshop 2010, "Compact super star clusters: birth, evolution and feedback" (30 delegates, invitation-only), Tonantzintla (Puebla), Mexico
- 11/2009 **SOC member** (invited) of a UK–China–Netherlands trilateral Frontiers of Science meeting (Royal Society / Chinese Academy of Sciences / Royal Netherlands Academy of Science): responsible for sessions on astrophysics and science policy, Beijing, China
- 08/2009 **SOC chair**, IAU Symposium 266 at the XXVIIth General Assembly on "Star Clusters: Basic Galactic Building Blocks throughout Time and Space", (> 350 delegates) Rio de Janeiro, Brazil; co-chair J. R. D. Lépine; proceedings editors: R. de Grijs and J. R. D. Lépine
- 08/2008 **SOC member**, "Star Cluster Formation: from Taurus to the Antennae", Sheffield, UK
- 09/2007 **Co-chair** of the SOC of the conference on "Young massive star clusters: Initial conditions and environmental impact" (60 delegates), Instituto de Astrofísica de Andalucía (Granada, Spain), proceedings editors: E. Pérez, R. de Grijs & R. M. González Delgado
- 07/2007 **SOC member**, "12 Questions on Star and Massive Star Cluster Formation", ESO Garching, Germany
- 11/2006 **Chair/organiser**, MODEST-7d: UK–China Science Network/International Joint Project (Sheffield-Bonn) workshop on "The dynamics of star clusters and star cluster systems", Sheffield, UK
- 06/2006 **Co-organiser/funding PI** of a UK–China workshop on "The internal dynamics of dense star clusters", Nan'chong (Si'chuan), China
- 01/2006 **Chair**, Royal Astronomical Society meeting, "Life and Death of Star Clusters", London, UK
- 07/2005 **SOC member** of the "Island Universes: Structure and Evolution of Disk Galaxies" conference, Terschelling, Netherlands
- 09/2004 **SOC chair** of the conference "Starbursts – From 30 Doradus to Lyman break galaxies", Cambridge, UK (195 delegates); proceedings editors: R. de Grijs & R. M. González-Delgado
- 07/2004 **SOC member** of the Guillermo Haro workshop on "Violent Star Formation and the Legacy Tool", INAOE, Puebla, Mexico
- 06/2003–08/2006 **Colloquium chair**, Department of Physics & Astronomy, University of Sheffield, UK; astronomy colloquia
- 09/2002–06/2003 **Cambridge Deputy**, European Association for Research in Astronomy (EARA)
- 04/2003 – **Organizer**, EARA workshop, "Star Formation in Dwarf Galaxies", Cambridge
- 09/1998–07/2000 **Co-organizer** of weekly University of Virginia (UVA)/National Radio Astronomy Observatory (NRAO) Astronomy science lunch talks, and of the annual NRAO/UVA Jansky Symposium

Ph.D., M.Sc. thesis and postdoc supervision/assessment

- 08/2022–10/2023 **Ph.D. supervisor** of Aashique Unnikrishnan (Macquarie University, AU): *Not-so Simple Stellar Populations in Nearby, Resolved Intermediate-age Massive Clusters*; co-supervisor: D. Kamath
- 04/2021–aborted **Co-tutelle Ph.D. supervisor** of Aleksandr Chemel (Moscow State and Macquarie Universities): *Clustering of variable stars in the Milky Way*; joint supervisor: E. Glushkova. Aborted due to the Russia–Ukraine war.
- 01/2021–present **Co-tutelle Ph.D. supervisor** of Amy Miller (Potsdam and Macquarie Universities): *Stellar clustering in the Magellanic Clouds*; joint supervisor: M.-R. Cioni
- 12/2020–present **Ph.D. supervisor** of Deepak Chahal (Macquarie University, AU): *Chromospheric stellar variability*; co-supervisor: D. Kamath
- 04/2019–04/2023 **Ph.D. supervisor** of Shalmalee Kapse (Macquarie University, AU): *Multiple Stellar Populations in Young and Intermediate-age, Massive Clusters in the Magellanic Clouds*; co-supervisor: D. Zucker
- 05/2017 **Ph.D. reading committee member** of LIU Yiqing (Peking University, China): *The Star Formation Histories of Early-type Galaxies and Their Environmental Dependence*; supervisor: E.W. Peng
- 09/2016–06/2021 **Ph.D. supervisor** of REN Fangzhou (Peking University, China): *Eclipsing binary systems in the KISO-GP Survey*; co-supervisor: L. Deng (NAOC)
- 09/2016–05/2022 **Ph.D. supervisor** of SUN Weijia (Peking University, China): *Stellar rotation and binarity: the missing piece in star clusters and stellar populations*; co-supervisor: L. Deng (NAOC)
- 09/2016–06/2021 **Ph.D. co-supervisor** of YANG Yujiao (Peking University, China): *Binary systems as dynamical clocks*; main supervisor: L. Deng (NAOC)
- 05/2016 (1) **Ph.D. reading and defense committee member** of the Ph.D. thesis of WANG Long (Peking University, China): *Long-term dynamical evolution of globular clusters*; supervisors: M.B.N. Kouwenhoven, R. Spurzem
- (2) **Ph.D. committee member** of the Ph.D. thesis of Maxwell CAI (UCAS, China): *Dynamical evolution of planetary systems in star clusters*; supervisors: R. Spurzem, M.B.N. Kouwenhoven
- 12/2015 **Ph.D. committee chair** of the Ph.D. thesis of ZHENG Xiaochen (Peking University, China): *The dynamical fate of planetary systems: affected by environmental and internal factors*; supervisors: M.B.N. Kouwenhoven, D.N.C. Lin
- 07/2015–05/2018 **Ph.D. supervisor** of SUN Ning-Chen (Peking University, China): *Hierarchical star formation in the Magellanic Clouds*
- 06/2015 (1) **Ph.D. committee chair** of the Ph.D. thesis of LI Biao (Peking University, China): *The dynamics of stars and globular clusters in low-mass early-type galaxies*; supervisor: E.W. Peng
- (2) **Ph.D. reading and defense committee chair** of the Ph.D. thesis of LI Yun (Peking University, China): *The dynamical evolution of disc-fragmented multiple systems*; supervisor: M.B.N. Kouwenhoven
- 05/2015 **Assessment committee member** of postdoctoral/KIAA/LAMOST fellowship research projects, CHEN Bingqiu, Alberto Rebassa-Mansergas, Nahiely Flores Fajardo and YUAN Haibo
- 03/2015 **External assessor** of Ph.D. thesis of R. Randriamanakoto (University of Cape Town, South Africa): *Formation of young massive star clusters: A high-resolution, multi-wavelength study of intensely star-forming galaxies*; supervisor: P. Väisänen
- 09/2014–05/2018 **Ph.D. supervisor** of MA Chao (Peking University, China): *Star clusters and their host galaxy nuclear rings*; co-supervisor: L.C. Ho

- 10/2013 (1) **External examiner** of Ph.D. thesis of Steven Rieder, Leiden University (Netherlands): *The Clustered Universe*, supervisor: S. Portegies Zwart
- (2) **External examiner** of Ph.D. thesis of Maryam Shirazi, Leiden University (Netherlands): *Nearby and distant star-forming galaxies as seen through emission lines*, supervisor: J. Brinchmann
- 06/2013 **External assessor** of Ph.D. thesis of Juan P. Madrid (Swinburne University of Technology, Australia): *Structural parameters of compact stellar systems*; supervisor: J. Hurley
- 12/2012 **Assessment committee member** of M.Sc. thesis research of LIU Chuanwu (Peking University, China): *Dynamical evolution of rotating star clusters with primordial binaries*; supervisors: R. Spurzem, M. B. N. Kouwenhoven
- 09/2012–05/2018 **Ph.D. co-supervisor** of Eunbin Kim (Kyung Hee University, Republic of Korea): *Galactic bulges*; co-supervisors: S. S. Kim, Y.-Y. Choi
- 09/2012–06/2016 **Ph.D. supervisor** of CHEN Xiaodian (Peking University, China): *Open cluster variables as distance tracers*; co-supervisor: L. Deng
- 06/2012 **Chair, M.Sc. thesis committee** of HAO Wei (Peking University, China): *The cumulative effect of distant stellar encounters on multi-planet systems in star clusters*; supervisor: M.B.N. Kouwenhoven
- 08/2011 **Assessment committee member** of postdoctoral/KIAA fellowship research projects of Stephen Justham, Matthias Gritschneider and Rubén García-Benito
- 09/2011–06/2015 **Ph.D. supervisor** of LI Chengyuan (Peking University, China): *Not-so-simple stellar populations in massive star clusters*; co-supervisor: L. Deng
- 02/2011 **Faculty opponent** of Ph.D. thesis of Angela Adamo, Stockholm University (Sweden): *Super Star Clusters in Blue Compact Galaxies: Evidence for a near-infrared flux excess*; supervisor: G. Östlin
- 09/2010–06/2013 **M.Sc. supervisor** of WANG Song (Yunnan Astronomical Observatory, China): *The VISTA Survey of the Magellanic Clouds*; co-supervisor: Z. Han
- 09/2010–05/2014 **M.Sc. supervisor** of LI Shuo (Peking University, China): *The M82 star cluster population revisited* (Ph.D. to M.Sc. transfer)
- 04/2010 **External examiner** of postdoctoral research project of Yinghe ZHAO, Purple Mountain Observatory (Nanjing, China): *Chemical and star-formation properties of blue compact dwarf galaxies*; supervisor: Y. Gao
- 06/2009 **External examiner** of Ph.D. thesis of Remco Scheepmaker, Utrecht University (Netherlands): *Star clusters in the Whirlpool galaxy*; supervisors: H. J. G. L. M. Lamers, S. S. Larsen
- 10/2008 **External examiner** of Ph.D. thesis of Michelle Lanyon-Foster, University of Nottingham (UK): *Exploring Galaxy Formation Across and Beyond the Hubble Sequence*; supervisors: C. J. Conselice and M. R. Merrifield
- 07/2008 **External examiner** of Ph.D. thesis of Mark Norris, Durham University (UK): *The Formation of Early-Type Galaxies*; supervisor: R. Sharples
- 10/2007–12/2010 **Ph.D. supervisor** of Richard Allison, University of Sheffield (UK): *The importance of primordial mass segregation in star clusters*; co-supervisor: S. P. Goodwin (STFC funded)
- 08/2007–05/2012 **Ph.D. supervisor** of YU Jin-Cheng, Shanghai Astronomical Observatory (China): *Primordial mass segregation and star-formation efficiencies in young open clusters*; co-supervisor: L. Chen (CAS funded)
- 06/2007 **External examiner** of Ph.D. thesis of Avon Huxor, University of Hertfordshire (UK): *Star Clusters in the Halo of M31 and Their Implications for Galaxy Evolution*; supervisor: N. R. Tanvir
- 10/2006 **External examiner** of Ph.D. thesis of Mark Gieles, Utrecht University (Netherlands): *Star Clusters*; supervisors: H. J. G. L. M. Lamers and S. Portegies Zwart

- 09/2005 **Internal examiner** of Ph.D. thesis of William Feline, University of Sheffield (UK): *ULTRACAM photometry of eclipsing cataclysmic variable stars*; supervisor: V. S. Dhillon
- 02/2005–01/2011 **Ph.D. supervisor** of (i) LIU Qiang and (ii) HU Yi at the National Astronomical Observatories of China, Beijing: observational and modelling aspects related to *The Evolution and Dynamical Importance of Binary Systems in Compact Star Clusters*; co-supervisor: L. Deng (CAS funded)
- 04/2005 **External examiner** of Ph.D. thesis of Nathan J. Bastian, Utrecht University (Netherlands): *Studies on the formation, evolution and destruction of massive star clusters*; supervisors: H. J. G. L. M. Lamers and M. Kissler-Patig
- 10/2004–10/2008 **Ph.D. supervisor** of Sarah L. Moll, University of Sheffield (UK): *Formation and survival of compact star clusters in galaxy mergers*; second supervisor: P. A. Crowther (PPARC funded)
- 09/2003 **External examiner** of Ph.D. thesis of Simon Coggins, University of Nottingham (UK): *Gravitational redshifts and the mass distributions of galaxies and clusters*; supervisor: M. R. Merrifield
- 02/2003–07/2007 **Ph.D. supervisor** of Thomas Lilly, University of Göttingen (Germany): *Exploring the formation histories of galaxies – Globular clusters and beyond*; co-supervisor: U. Fritze (DFG funded)
- 12/2001–02/2006 **Ph.D. supervisor** of Peter Anders, University of Göttingen (Germany): *Star cluster systems in starburst galaxies*; co-supervisor: U. Fritze (DFG funded)
- 05/2002 **External examiner** on Ph.D. thesis panel of Geneviève Parmentier, Univ. Liège (Belgium): *The formation and self-enrichment of halo globular clusters*; supervisors: A. Noels, P. Magain

Research

While employed in the UK (2000–2010), I was awarded ~ £ 310,000 directly for research grants as Principal Investigator (PI). I have been successful in applying for major research grants from the Particle Physics and Astronomy Research Council (defunct)/Science and Technology Facilities Council (annual rounds of grant applications; numerical success rate < 10%), the Royal Society (which selected me as one of a limited number of scientists supported to set up a high-profile UK–China science network), the British Council (to initiate a UK–Korea network), and other charities in the UK and Europe. *My grant income in China has been limited to grants foreign PIs are eligible to apply for, precluding me from embarking on more ambitious projects.*

My successful contribution to the research standing of the Department of Physics & Astronomy at the University of Sheffield (UK) led to a University **Exceptional Contribution Award** (awarded to < 5% of staff) for the academic year 2006/2007. In 2015, Peking University awarded me an **Exceptional Performance award**, implying a top-5% performance that year.

Important note: I am a founding member of the VISTA Survey of the Magellanic Clouds (VMC), the VISTA Variables in the Vía Láctea (VVV) survey and the UKIRT Infrared Deep Sky Survey's (UKIDSS) Galactic Plane Survey (GPS). As such, I have access to more new data than I can deal with, even with my students and postdocs.

RESEARCH GRANTS AND CONTRACTS (SELECTION)

2022–2023	Australia–India Research Studentship (AIRS) Programme: <i>Deciphering recent interactions in the Magellanic Clouds: Is the star formation in the Small Magellanic Cloud turbulence-dominated?</i> (co-PI): <u>A\$10,000</u>
2021	Australian Research Council (ARC) – LIEF (Linkage Infrastructure, Equipment and Facilities): <i>Australian Participation in the Legacy Survey of Space and Time</i> , LE220100007 (co-I; PI: S. Brough, UNSW): <u>A\$ 1,275,295</u>
2019	(1) ARC LIEF: <i>Veloce+RAPTOR: A Robotic Telescope Leveraging Global Science from Veloce</i> , LE190100050 (co-I; PI: C. Schwab): <u>A\$ 500,000 + A\$295,000</u> (institutional co-pay) (2) New South Wales Chief Scientist and Engineer's Office – 2020 Conference Sponsorship Program: <u>A\$ 6,000 (+ A\$ 43,000 other)</u>
2017–2021	Ministry of Science and Technology of China – National Key Research and Development project (co-I): <u>CNY 32.33M</u>
2017–2020	National Natural Science Foundation of China (NSFC) – Key Project grant (co-PI): <u>CNY 3.1M</u>
2017–2019	NSFC – Joint NSFC/Chinese Academy of Sciences grant (PI): <u>CNY 500,000</u>
2017	Erskine award (fellowship), University of Canterbury (New Zealand): <u>NZ\$ 10,000</u>
2015–2016	International Space Science Institute–Beijing workshop grant (PI), <i>Astronomical distance determination in the space age</i> , <u>€ 35,000</u>
2014–2017	NSFC – Standard grant (PI): <u>CNY 900,000</u>

- 2014–2016 NSFC – Public Understanding of Science grant (**PI**): CNY 400,000
- 2013 **Visiting Academy Professorship**, Royal Netherlands Academy of Arts and Sciences (KNAW): € 13,000
- 2012 International Astronomical Union, Office of Astronomy for Development (Task Force 1: Universities and Research): € 5,600 + € 5,000 (regional office start up)
- 2012 Australian Academy of Science – **Selby award**: AU\$ 10,000
- 2011–2012 Kyung Hee University (Republic of Korea) – Distinguished international visiting professor award (World Class Universities programme): KRW 43,000,000
- 2011–2013 NSFC – Standard grant (**PI**): CNY 500,000
- 2010 NSFC – Director’s Discretionary grant (**PI**): CNY 100,000
- 2009–2012 STFC – Visitors grant for the Astrophysics Group at Sheffield [ST/G001634/1] (**PI**): £ 10,135
- 2009 International Astronomical Union (IAU), grant to organise a Symposium at the XXVIIth IAU General Assembly (**PI/chair**) on “*Star Clusters: Basic Galactic Building Blocks throughout Time and Space*”, Rio de Janeiro (Brazil): US\$ 25,000
- 2008–2011 Korean Science and Engineering Foundation (KOSEF), Cooperative research grant – employing a postdoctoral researcher for three years at Kyung Hee University (Republic of Korea) on “*Building galaxies: star clusters as fundamental galactic building blocks*” (**co-PI** with S. S. Kim, Kyung Hee University, Republic of Korea): US\$ 60,000
- 2008–2010 British Council, Prime Minister's Initiative 2, *Building galaxies: star clusters as fundamental galactic building blocks*, UK–Korea Research Co-operation Award (**PI**, with Prof. S. S. Kim, Kyung Hee University, Republic of Korea): £ 34,448
- 2007–2008 Royal Society International Incoming Fellowship from China: funding for a post-doctoral research associate (PDRA) from China for 12 months (tax-free stipend and research expenses; non-fEC; **PI**): £ 18,200 (fEC: full economic costing)
- 2007–2009 Royal Society grant for an International Joint Project between the University of Sheffield and the National Astronomical Observatories (Chinese Academy of Sciences, China), on “*Evolution and Dynamical Importance of Binary Systems in Compact Star Clusters*” (**PI**): £ 10,200
- 2007–2008 Engineering and Physical Sciences Research Council (EPSRC) Partnership for Public Awareness grant, EP/E03344X/1, “*Research Physicists Encouraging Outreach in Primary Schools*” (co-I; PI G. Gehring, Sheffield; incl. fEC): £ 79,876
- 2007–2008 Leverhulme Trust grant for a Visiting Professorship at the University of Sheffield for Prof. Pavel Kroupa, University of Bonn, Germany (co-I; PI S. Goodwin, Sheffield): £ 8,500
- 2006–2008 Royal Society grant for an International Joint Project between the Universities of Sheffield and Bonn (Germany), on “*Multiple star formation and the dynamics of star clusters*” (co-I; PI S. Goodwin, Sheffield): £ 9,400
- 2006–2007 International Space Science Institute (ISSI, Switzerland) – International Team grant, “*Star Cluster Formation and Evolution in the Context of the Quiescent versus Violent Star Formation Paradigm*” (**PI**): CHF 15,000
- 2006 Royal Society/Office of Science and Innovation; UK–China Science Network follow-up grant to organise two workshops of a week each, in China and in the UK (**PI**): £ 8,975
- 2006–2009 PPARC – Grant to hire a PDRA for 35 months on “*From young super star cluster to old globular: robust star cluster survival rates*” [PP/D002036/1] (**PI**; before fEC): £ 155,157

2006–2009	PPARC – Visitors grant for the Astrophysics Group at Sheffield [PP/D002044/1] (PI): <u>£ 9,457</u>
2006–2009	PPARC – Astronomical Computing at Sheffield [PP/D002052/1] (co-I): <u>£ 28,348</u>
2005–2006	University of Sheffield, Learning and Teaching Development Grant [CD0685], "A movie story: orbits, dynamics and disruption of globular star clusters in and around the Milky Way" (PI ; awarded in person days): equivalent to <u>£ 12,000</u>
2005–2006	EPSRC Partnership for Public Awareness grant [EP/C531779/1], "Research Physicists Supporting Primary Science" (co-I; PI G. Gehring, Sheffield): <u>£ 25,749</u>
2004–2005	International Space Science Institute (ISSI, Switzerland) – International Team grant (PI), "Life and Death of Star Clusters": <u>CHF 15,000</u>
2004–2006	Nuffield Foundation – Newly Appointed Lecturers award (in Science, Engineering and Mathematics) (PI): <u>£ 3,400</u>
2003	Royal Society – Research Grant (PI): <u>£ 4,596</u>

OBSERVING TIME ON MAJOR FACILITIES THROUGH PEER-REVIEWED COMPETITION

ESO P109	ESO – VISTA telescope awards (co-I): 109.230A ("Filling the gap in VMC observations of the Small Magellanic Cloud"; 9hr 23m), 109.231H ("VISTA proper motions of the Magellanic Clouds' stellar populations"; 42hr 10m), 109.23G7 ("Deep VISTA observations of the centre of the Small Magellanic Cloud"; 75hr 11m)
2022A	Anglo-Australian Telescope (Joint PI with my PhD student Shalmalee Kapse): A/2022A/18 ("The red giant branch as tracer of chemical anomalies in 1 to 3 Gyr-old Large Magellanic Cloud clusters"; 0.5 night)
ESO P106	ESO – VISTA telescope awards (co-I): 0106.B-0266 ("VISTA proper motions of the Magellanic Clouds' stellar populations"; 17.5 hr), 0106.D-0265 ("Deep VISTA observations of the centre of the Large Magellanic Cloud", 78.4 hr)
ESO P105	ESO – VISTA telescope awards (co-I): 0105.D-0315 ("Deep VISTA observations of the centre of the Small Magellanic Cloud"; 77.3 hr), 0105.D-0313 ("Filling the gap in VMC observations of the Small Magellanic Cloud, continued"; 10.4 hr), 0105.B-0314 ("VISTA proper motions of the Magellanic Clouds' stellar populations"; 45.3 hr)
SALT-2019-2 SALT-2020-1	SALT (Joint PI with my PhD student SUN Weijia): 2019-2-SCI-023 , 2020-1-SCI-004 ("Spectroscopy of turnoff stars in open clusters" IV and V; 6.03 and 7.12 hr)
ESO P103	ESO – VISTA telescope awards (co-I): 0103.D-0161 ("Filling the gap in VMC observations of the Small Magellanic Cloud cont. ^d "; 11.5 hr), 0103.B-0783 ("VISTA proper motions of the Small Magellanic Cloud, Bridge and Stream stellar populations"; 44 hr)
SALT-2018-1, 2	SALT (Joint PI): 2018-1-SCI-006 , 2018-2-SCI-002 ("Spectroscopy of turnoff stars in open clusters" II and III; 2 × 4.44 hr)
SALT-2017-2	SALT (Joint PI): 2017-2-SCI-038 ("Spectroscopy of turnoff stars in open clusters"; 14.95 hr)
2016B	Las Cumbres Observatory Global Telescope Network (1 m), "Completion of LCOGT photometric measurements of new classical Cepheids" (PI); 25 hr
HST	NASA/ESA – Hubble Space Telescope GO-14727 (co-I; PI P.-A. Duc): "Probing super star cluster formation in the most favorable environments: the metal-enriched, gas-rich and turbulent collisional ring of NGC 5291"; 8 orbits

2016A	(1) Las Cumbres Observatory Global Telescope Network (1 m), "LCOGT photometric measurements of new classical Cepheids" (PI); 20 hours (2) Xinglong 2.16m telescope (China), "A population study of stellar rotation rates: Proof-of-concept study" (PI); 2 nights (BFOSC) (3) Xinglong 80/85 cm telescopes (China), "Photometric measurements of new classical Cepheids in the northern Galactic disk" (PI); 20 nights
ESO P099	ESO – VISTA telescope award (co-I): 099.D-0.194 ("Filling the gap in VMC observations of the Small Magellanic Cloud"; 13.1 hr)
2010A–2012A	Bohyunsan Astronomical Observatory (Republic of Korea) – 1.8m telescope + KASINICS (co-PI): long-term programme on "Light Curve Templates in the Near-IR: Towards Automated Classification of VVV Light Curves for Cataclysmic Variable Stars"; 10–15 nights per semester: 22/06–04/07/2010, 24–26 and 29–30/09/2010, 14–20/10/2010, 26–31/03/2011, 14–17/10/2011, 12–15/11/2011, 11–14/05/2012
2010.1	South African Astronomical Observatory – 1.9m telescope time award, 2010.1.01 (PI), "Quantifying the importance of the ubiquitous blue straggler stars for age and metallicity determinations of unresolved star clusters"; 14 nights
2009.1	South African Astronomical Observatory – 1.9m telescope time award, 2009.1.03 (PI), "Quantifying the importance of the ubiquitous blue straggler stars for age and metallicity determinations of unresolved star clusters"; 7 nights
2008A	Joint Astronomy Centre (Hawai'i) – UKIRT telescope time award, UKIRT/08A/20 (PI), "Disentangling ages and metallicities of red-peak GCs with K-band data"; 30 hours
ESO P079	(1) ESO – VISTA telescope large programme 179.B-2003 ("The VISTA near-infrared YJK _s survey of the Magellanic System (LMC, SMC, Bridge & Stream) – VMC"; 1171.2 hr, co-I) (2) ESO – New Technology Telescope award 079.B-0511(A) (PI), "Disentangling ages and metallicities of red-peak GCs with K-band data"; 2 nights
2006B	Anglo-Australian Observatory – Anglo-Australian Telescope (AAT; 4m) AATAC/06B/3 (PI): "The reliability of dynamical star cluster mass determinations"; 3 nights
HST	NASA/ESA – Hubble Space Telescope GO-10853 (co-I; PI L. J. Smith): "M82 as a Fossil Starburst: Probing the Super Star Cluster Content of Region B"; 6 orbits
ESO P077	ESO – Very Large Telescope award 077.B-0046(A) (PI), "From young super star cluster to old globular: the M83 starburst clusters as a pilot sample"; 1 night
ESO P077	ESO – Very Large Telescope awards 077.C-0472(A) and (B) (co-I; PI M. Andersen): "Probing the IMF in Westerlund 1, the most massive young star cluster in the Galaxy"; 2×1.5 nights
2005B	Gemini Observatory – Keck-I telescope time award GN-2005B-C-6 (PI): "From young super star cluster to old globular: young clusters in M74"; 1 night
GALEX	NASA – GALEX space observatory, GO-36 (co-I; PI R. Windhorst): "GALEX Observations of Nearby Dwarf Galaxies"; 13.5 ksec
ESO P074	ESO – Very Large Telescope awards 074.C-0250(A) and (B) (co-I; PI M. Andersen): "Westerlund 1, the most massive young star cluster in the Galaxy: resolving the low-mass stellar population"; 6 and 3 hours
Chandra	NASA – Chandra X-ray Observatory, GO-06400311/06200332 (co-I; PI M. Muno): "X-rays from the Super Star Cluster Westerlund 1"; 60 ksec (grant: <u>US\$ 25,672</u>)

HST	NASA/ESA – Hubble Space Telescope GO-10172 (PI): " <i>Our Galaxy's most promising Super Star Cluster candidate, Westerlund 1: Tip of the Iceberg?</i> "; 8 orbits (grant: <u>US\$ 45,013</u>)
HST	NASA/ESA – Hubble Space Telescope GO-9824 (co-I; PI R. Windhorst): " <i>NIC3 SNAPs of Nearby Galaxies imaged in the mid-UV: the Remarkable Cool Stellar Population in Late-Type Galaxies</i> "; 48 snap-shots (grant: <u>US\$ 89,139</u>)
HST	NASA/ESA – HST GO-9891 (co-I; PI G. Gilmore): " <i>A Snapshot Survey of Rich Stellar Clusters in the Large and Small Magellanic Clouds</i> "; 80 snap-shots (grant: <u>US\$ 150k</u>)
HST	NASA/ESA – Hubble Space Telescope GO-9892 (co-I; PI R. Jansen): " <i>Hα Snapshots of Nearby Galaxies observed in F300W: Quantifying Star Formation in a Dusty Universe</i> "; 48 snap-shots (grant: <u>US\$ 93,216</u>)
ESO P071	ESO – Very Large Telescope award 071.B-0058 (PI), " <i>Spectroscopic Ages and Mass Determinations of Young Compact Star Clusters in NGC 1140</i> "; 2 nights
Gemini-S	Gemini – Gemini-South telescope award (PI), " <i>Integral-field spectroscopy of NGC 1140</i> "; 1 night
HST	NASA/ESA – Hubble Space Telescope GO-9414 (PI): " <i>Resolved halo stellar populations in the Milky Way analogue edge-on galaxy NGC 891</i> "; 36 orbits (grant: <u>US\$ 110k</u>)
2000A–2000B	Joint Astronomy Centre (Hawai'i) – UKIRT telescope time awards UKIRT/00A/71 and UKIRT/00B/39 (PI), " <i>The vertical distribution of stellar populations in spiral galaxies</i> "; 6 nights

PROFESSIONAL SERVICE

2012–present	Promotion and tenure assessment requests: Iowa State University, USA (2012); Canadian Research Council, Canada (2013); Radboud University Nijmegen, Netherlands (2014); Australian National University, Australia (2014); Peking University, China (2012–2018); Western University (formerly University of Western Ontario), Canada (2018); University of Tasmania, Australia (2020); Xi'an Jiaotong Liverpool University, China (2021)
1998–present	Scientific referee : <i>Nature</i> , <i>Science</i> , <i>MNRAS</i> , <i>ApJ</i> (incl. <i>Letters and Supplements</i>), <i>AJ</i> , <i>A&A</i> (incl. <i>Letters</i>), <i>PASP</i> , <i>Astrophys. Space Sci.</i> , <i>Science in China</i> , <i>Science China (Physics, Mechanics & Astronomy)</i> , <i>J. Astron. Hist. Heritage (JAHH)</i> , <i>PLOS Computational Biology</i> , and of book (series) proposals submitted to Wiley Academic Publishers, CRC Press
2001–present	Scientific reviewer : Royal Society (UK; including of University Research Fellowship applications), the European Research Council (Advanced Grants: 2013–present), PPARC/STFC (UK), NSERC (Canada), the National Science Foundation (NSF, USA), the Austrian Science Fund, the Czech National Science Foundation, the Swedish National Space Board, the Netherlands Organisation for Scientific Research (NWO), the Leibniz Association (Germany), the Israel Science Foundation, the Binational Science Foundation (Israel–USA), Strategic Science Fund (Canada) and Seeding Labs; also of nominations for the Inamori Foundation's <i>Kyoto Prize</i> (2014), the <i>Shaw Prize</i> (2015, 2018), the Philip Leverhulme Prize in Physics (2018), and the Royal Astronomical Society's <i>Michael Penston PhD thesis prize</i>
2001–present	Scientific reviewer : Gemini, GranTeCan, UKIRT, ING and AAO telescopes (in addition to UKIRT and AATAC time allocation committee membership); China's Telescope Access Program
2010, 2012,	Assessor (invited) of funding proposals submitted to the call

- 2016–present “*Measures to Attract Leading Scientists to Russian Educational Institutions*”: New Eurasia Foundation/Ministry of Education and Science of the Russian Federation
- 2007–2010 **Assessor** of funding proposals submitted to SEE-ERA.NET (Integration and Strengthening the European Research Area in South-East Europe), established by the European Commission and EU member states
- 2003–2006 **Assessor** of funding proposals submitted to INTAS (International Association to promote the scientific potential of the NIS partner countries through East-West scientific cooperation), European Community

Teaching

MACQUARIE UNIVERSITY, SYDNEY, AUSTRALIA (03/2018–present)

- 2022+ **Lecturer**, ASTR3010 (Stellar evolution, astrophysics of radiation)
Co-lecturer, ASTR2020 (Modern Astrophysics)
- 2021+ **Lecturer**, PHYS1020 (Electromagnetism)
Co-lecturer, PHYS3810 (People and Community Engagement)
Convener, PHYS7911/2 (Advanced Placement in Physics and Astronomy)
- 2019, 2020, 2021 (2×), 2022 **Senior Facilitator**, “*AuthorAID online course in Research Writing*”, a 7-week course for early-stage researchers from developing countries, covering all aspects of writing research papers for publication in peer-reviewed journals. Enrolment: 2000–3000 (supported by approx. 20 facilitators)

PEKING UNIVERSITY, CHINA (09/2009–02/2018)

- 2015, 2016 (2×), 2017 (2×), 2018 **Senior Facilitator**, “*AuthorAID online course in Research Writing*”, a 7-week course for early-stage researchers from developing countries, covering all aspects of writing research papers for publication in peer-reviewed journals. Enrolment: 2000–3000 (supported by approx. 20 facilitators)
- 2012–2018 **Lecturer**, “*An Introduction to Distance Measurement in Astronomy*”, senior undergraduate/post-graduate lecture course; 30 lecture hours, based on my 2011 monograph by the same title (firmly research based). The assessment is based on a written exam (50%), an in-depth, 3000-word essay (25%) and four homework assignments (25%).
- 2010–2017 **Casual lecturer**, “*Topics in Modern Astrophysics*”, senior undergraduate/post-graduate lecture course taught by a number of faculty members; usually 2 lectures per year.
- 2010–2018 **Supervisor**, second-, third-, and fourth-year undergraduate research projects, both by student request (voluntarily) and for credit.

THE UNIVERSITY OF SHEFFIELD, UK (06/2003–02/2010)

- PHY 216** 09/2004–02/2010 "*Galaxies – Structure and Evolution*"; second-year undergraduate half module, consisting of 20 lecture hours (firmly research based). The assessment included a written exam (50% of the final grade), an essay assignment (approx. 3000 words; 35%), and student presentations on a topical letter from the recent literature (15%).
[~20–30 students per year]
- PHY 217** 02/2004–02/2010 "*Techniques of Astronomical Observation*"; second-year undergraduate half module, consisting of 20 lecture hours (firmly research based, covering the most recent developments in instrumentation, as well as the basics). The assessment included a written exam (60%) and an observing project using a small telescope on the roof of the departmental building (40%). [~20–30 students per year]
- PHY 319/343** 10/2006–02/2010 "*Undergraduate Ambassadors Scheme*"; third-year undergraduate placements at local secondary schools; required schools liaison, student guidance, special project supervision, journal assessment.
[~2–3 students per year]
- PHY 401/2** 10/2007–02/2010 "*Cosmic Origins*"; fourth-year undergraduate module, consisting of 40 lecture hours, split among four academics (firmly research based, covering the most recent developments in their respective areas of research). [~10 students per year]
- PHY 104/5** 09/2003–02/2010 "*Introduction to Astrophysics*" and "*Observing the Night Sky*" – laboratory classes: I was responsible for the first-year undergraduate astronomy teaching laboratory (6 hours per week for 10 weeks, both semesters). This was a mandatory component for both modules (counting for 30% of the final grade; students *must* pass). In practice, this involves supervision, administration and innovation; I introduced a significant number of new laboratory exercises. [~50–60 students per semester; laboratories ran for 10 weeks, twice weekly for periods of 3 hours at a time]
- PHY 445 & 451/2** 09/2004–02/2010 "*Directed Reading in Astronomy*", "*Research Design Study*" and "*Research Projects in Physics*" – supervision of fourth-year undergraduate students on a "directed reading" module and final-year research projects.
[generally 2 students per year]