

# Curriculum Vitae

## Prof. Stephen Serjeant

7 July 2017

### 1 HIGHER EDUCATION

#### Degrees

- 2004 Post-Graduate Certificate in Higher Education, University of Kent.
- 1992- D.Phil. (Quasars and Galaxies at Early Cosmic Epochs), New College, Oxford  
1995 University
- 1989- B.Sc. (Hons) (Physics) first class, University of Bristol  
1992

#### Awards

- 2015 Telly Award: Bronze award for Sixty Second Adventures in Astronomy. Serjeant wrote and led the development of the Sixty Second Adventures in Astronomy proposal to STFC, securing £100K for what has turned out to be an enormously successful award-winning animation series (approaching a million views), reaching number 8 in the global iTunesU charts, and now incorporated into the OU astronomy MOOC and other modules.
- 2013 Planck consortium (of which I am a member) named Physics World Breakthrough of the Year 2013
- 2012 Shortlisted for Sir Arthur C Clarke award for "60 Second Adventures in Astronomy". (Several hundred are nominated for this prestigious award, the "Oscars" of public engagement, and only three shortlisted per category).
- 2012 Open University Merit Award
- 2010 The Times Eureka Magazine "highly commended" in the British Press Awards 2010; Serjeant wrote the monthly science quiz for this magazine.
- 2009 Open University Merit Award
- 2006 Open University Merit Award
- 2004 Co-winner of Daiwa Adrian prize for Anglo-Japanese scientific collaboration

#### Professional qualifications

- 2011 Fellow of the Institute of Physics. The criteria include "a very high level of achievement in physics and an outstanding contribution to the profession".

2011 Chartered Physicist

2004 Fellow of the Higher Education Academy

2004 Fellow of the Royal Astronomical Society

## **2 APPOINTMENTS AND EXPERIENCE**

2016-  
present Professor of Astronomy

2011-  
present Head of the Astronomy Discipline, The Open University

2010-2016 Reader in Cosmology, The Open University

2006-2010 Senior Lecturer in Astrophysics, Open University

2001-2006 Lecturer in Space Science (promoted to Senior Lecturer September 2005),  
University of Kent

1995-2001 Post-doctoral research fellow, Imperial College London

## **3 CONTRIBUTIONS TO OPEN UNIVERSITY TEACHING AND STUDENT SUPPORT**

### **(a) Organisational responsibilities, Central academic staff**

#### **S282 Astronomy (30 points)**

2014-2015 Member of production course team, also responsible for 2/8 chapters of the second of two books

#### **S177 Galaxies, Stars and Planets (10 points)**

2011-2012 Production team chair, also responsible for 2/8 chapters

2012-2016 Module team chair, presentation

#### **SG077 Learn About Galaxies, Stars and Planets (10 points)**

2012-  
present Module team chair.

#### **S383 The Relativistic Universe (30 points)**

2010-  
present Module Team Chair 2010-12 and 2014 to present; module team member from 2012-2014

2008-2009 Member of Production Course Team, solely responsible for Book 3,  
Observational Cosmology (1/3 of course)

**SXP390 Science project course (30 points)**

2016-present Responsible for forum monitoring and plagiarism checks

**S382 Astrophysics (30 points)**

2008-2010 Member of Production Course Team and first presentation course team

**S357 Space, Time and Cosmology (30 points).** Serjeant greatly increased the contemporary cosmological context in the TMAs.

2006-2010 Presentation course team chair

2006-2010 Examination and award board chair

**S381 The Energetic Universe (30 points)**

2007-2009 Member of Presentation Course Team

**S104 Exploring Science (60 points)**

2006-2007 Member of Production Course Team

**(b) Contributions to teaching materials and methods**

Serjeant has driven the incorporation of research-level tools and material into the OU astronomy and planetary sciences curriculum, particularly in pioneering the use of the professional Aladin software for the highly-rated entry-level astronomy module S177, and in preparing students for PhD entry in the final-year S383 module. Students taking S177 are much more likely to pass the second-level astronomy module S282, than students with no prior S177 study (or its predecessors). The external examiner (Prof. Gordon Bromage, University of Central Lancashire) commented: *"In my professional opinion, this material is of the highest quality" "It skilfully covers the intended wide introduction to astronomy topics" "The material is written in an engaging, flowing, pleasant style, in excellent English and with a very high quality of presentation, attention to detail and accuracy." "I am confident that the module S177 will provide a stimulating and rewarding intellectual introduction to the astronomy of planets, stars, galaxies and the Universe, at the first-year-undergraduate level at the Open University. Overall, I have been extremely impressed by the module material: its accuracy, quality, structure and attention to detail."*

Serjeant also facilitated the outsourcing of our former astronomy residential school in Mallorca to the independent company Astronomy Tuition, creating a very popular optional practical science experience to supplement the OU curriculum, also strengthening the OU's strategic partnership with the Mallorca observatory that hosts the OU's PIRATE robotic telescope facility.

**S177 Galaxies, Stars and Planets (10 points)**

2011-2015 Production team chair, also responsible for 2/8 chapters of module textbook; presentation team chair; created innovative online practical component using the professional Java-based astronomy software Aladin, beta-tested by OU students Serjeant recruited via Twitter for this purpose.

**SG077 Learn About Galaxies, Stars and Planets (10 points)**

2012-present Module team chair. First NAL SSM to make a profit.

**S383 The Relativistic Universe (30 points)**

2008-2010 Sole author of Book 3, (Observational Cosmology, contribution equivalent to 10 points) [see also 3(a) above]

**S104 Exploring Science (60 points)**

2006-2007 Author of Chapters 11, 12, 13 and 14 of Book 2 (Earth and Space, 77 of the book's 250 pages, contribution equivalent to about 2 points) [see also 3(a) above]

**(c) Contributions to staff and student support and associated activities**

**2015-present Credit transfer assessor for Natural Sciences (Physics and Astronomy, Planetary Sciences) and for the Mathematics and Physics degree. Serjeant secured a change in credit transfer Faculty policy and practice, saving a factor of five or more in staff time by ensuring decisions are made by academic subject specialists.**

**2014 Credit transfer assessor for Science Faculty (one of three in this role)**

**SXP288 Practical Science (30 points)**

2015 Tutor

**SXR207 Physics by Experiment (10 points)**

2009-2011 Course Director

2007-2009 Tutor

**SXR208 Observing the Universe (15 points)**

2007-2009 Tutor

**(d) Contributions to teaching outside the Open University**

- 2010- present Serjeant's CUP-copublished advanced undergraduate textbook *Observational Cosmology* adopted by Caltech, University of Colorado, University of Western Ontario, University of Nevada, University of Manchester, Laboratoire de l'Accélérateur Linéaire France, INPE Brazil, and several other institutions worldwide.
- 2015-2016 Through a collaboration with MCT colleague Marian Petre and the non-profit organisation Software Carpentry, Serjeant has arranged for a postgraduate training workshop in programming to be held at the OU for all South East Physics Network departments in 2016, covering the University of Hertfordshire, the University of Kent, The Open University, the University of Portsmouth, Queen Mary University of London, Royal Holloway University of London, the University of Southampton, the University of Surrey and the University of Sussex.
- 2006 Director of the national summer school for all ~100 new UK astronomy and planetary science PhD students, held at the OU with the STFC Chief Executive giving a keynote address and hosting visiting lecturers from universities throughout the UK. The programme of training and lectures organised by Serjeant launched the research careers of this generation of UK astronomers.
- 2002-2006 University of Kent: Stephen Serjeant completely re-wrote and re-structured level 1 astrophysics course PH304 (Astronomy, Space Science and Modern Physics, 15 points) and most of PH712 (Advanced Cosmology, 15 points). He offered one-to-one tutorials with any students who needed it, far beyond the teaching requirements for the degree programmes in which formal one-to-one tutorials had been abolished. The online resources he created for PH304 have been used by other institutions, for example by the Institute of Space and Astronautical Sciences in Tokyo.
- 2004-2006 Convenor (i.e. Director) of the Foundation Year physics laboratory, University of Kent
- 2002-2004 University of Kent Director of the PPARC-funded Kent Space School, a residential summer school for 14-18-year-olds.

#### **4 CONTRIBUTIONS TO ADMINISTRATION AND MANAGEMENT**

##### **Open University**

- 2016- present Lead, REF UoA9 (Physics) OU submission. Commissioned three major external reviews: (1) overall review of health of submission by Prof. Martin Barstow, Leicester; (2) review of impact cases by Dr Frances Saunders, UKSA; (3) review of publications across the discipline areas and range of quality to validate / calibrate the internal assessments, by multiple external reviewers. The Barstow review confirmed a strong submission can be made; the Saunders review

confirmed the numbers and quality of impact cases under consideration are appropriate for this stage of the cycle; publication calibration reviews still underway.

2010-2016 Head of Astronomy Discipline. Presided over a dramatic increase in PDRA numbers from 1 to 10 over this period (1 Royal Society URF, 3 STFC PDRA's, 1 UKSA PDRA, 2 Daphne Jackson fellows co-funded by STFC; 1 Horizon2020 PDRA, 2 RIFs), making this, by some metrics, **the most successful period for astronomy in the OU's history**. OU Astronomy is clearly comparable to the Russell Group astronomy research groups in citations and publications as well as in PDRA numbers. The high international regard for OU Astronomy was reflected in the large number of outstanding applicants for REF Investment Fellows. Staff at all stages in OU Astronomy are now far more proactive in seeking to diversify external income, and attract a much larger number of external applicants (of high quality) for externally funded fellowships, compared to other discipline areas. Serjeant successfully developed a **new strategic vision for OU Astronomy** with wide and strong support within the Discipline area, centred around two themes in which world-leading expertise will be consolidated over the next 5-10 years: **the molecular Universe** (current and future discovery space: Herschel, ALMA, SOFIA, JWST, JVLA, SPICA, IRAM/NOEMA, JCMT, SALT, LOFAR, SDSS-IV, ELIPS, ISIS, E-ELT, VLT, etc.); **the time-domain Universe** (current and future discovery space: Gaia, LSST, Plato 2.0, SALT, PIRATE, LIGO, VLT, etc.). These two themes have natural synergies and are expected to cross-fertilise increasingly. Serjeant promoted a sense of identity and cohesion in the research group through a new weekly Astronomy journal club, social events, and most importantly building a research strategy through staff consultation and collaboration. Astronomy has continued to deliver consistently and reliably on all its teaching during Serjeant's research leadership: the Physics/Astronomy and Planetary Sciences strand of Q64 is consistently one of Science's best recruiters, and Science has 100% LTS handover 'green lights' this year. Serjeant successfully led the Astronomy Discipline during the merger of the Physics and Astronomy Department with the Planetary and Space Sciences Research Institute, merging departments and working cultures, and through a difficult period of voluntary severances in the wider department/faculty. Merging two departments and working cultures has not been without its difficulties, particularly with regard to the day-to-day practicalities of co-location, but the success of our structure is evidenced by overwhelming support for the departmental cognate disciplines in an anonymous departmental poll. Serjeant secured ~£23k/year for maintaining strategic facility investment in the South African Large Telescope and the James Clerk Maxwell Telescope and £20k/year internal funding commitments for the Large Synoptic Survey Telescope to secure our role within the UK university consortium for this facility, which went on to obtain STFC capital investment for the whole consortium of £1.2million/year as an alternative to

universities' investments. These strategic facility activities ensure OU staff have access to additional observatories while UK community facility access contracts sharply.

- 2015-present Leader of the STFC Astronomy Consolidated Grant. Serjeant managed the internal peer review processes, taking responsibility for the selection of individual cases for further development, taking responsibility for the over-arching narrative and for the overall submission.
- 2015-2016 Member of the Science Faculty Strategic Forum, a 'think tank'. As a result of Serjeant's suggestion and clarification of the issues, a paper is being prepared for the Faculty Management Team on a low-production-cost MPhys four-year integrated masters degree using entirely existing modules, once the Level 1 curriculum has stabilised.
- 2015-2016 Science Consultant, BBC4 Jim Al-Khalili series Beginning And End.
- 2010-2015 Member of the CEPSAR directorate, leading the development of the Astronomy research strategy, as well as contributing to the wider development and review of the strategic research priorities throughout CEPSAR.
- 2009-2014 Lead science consultant for BBC1 series Bang Goes The Theory, leading a team of 12 Science Faculty academics.
- 2012-2013 Science Consultant, BBC Stargazing Live
- 2012-2013 Science Consultant, BBC Light And Dark.
- 2006-2010 Deputy Associate Dean, Science Broadcasting. In this capacity Stephen Serjeant set a new strategy for greater focus on entry-level curriculum support, following a consultative Open Forum that he ran, and he represented the Faculty in BBC pitching meetings at the OBU. The OU commissioning of Bang Goes The Theory (typically 3.5 million viewers, >1 million above the BBC1 slot average excluding Wimbledon) was partly a result of Serjeant's strategic entry-level focus. He strongly supported the 2009 Darwin theme that has been a runaway success (half a million print item requests), and he arranged for market research to analyse the effectiveness of linking Darwin programming to the science short courses. In a July 2008 "brainstorming" at the BBC Media Centre with the OU VC, George Entwistle (then BBC Controller of Knowledge Commissioning) and others, I pitched our collectively-obtained idea for a BBC1 prime-time science show, which later came into existence as Bang Goes The Theory.
- 2006- Director of External Relations, Department of Physics and Astronomy. In this

2010 capacity Stephen Serjeant led the introduction of new departmental web pages. Stephen Serjeant co-ordinated the departmental public engagement activities and leads direct marketing events at amateur astronomy conventions.

2006- Member of Science Curriculum and Awards Committee Working Group on  
2007 Retention

### **Contributions at other institutions**

2005- Member of the Science Faculty Teaching Prizes Committee, University of Kent  
2006

2004- Member of School of Physical Sciences Research Committee at the University of  
2006 Kent, providing management oversight to the departmental research portfolio.

2004- Member of the Science Faculty Board, University of Kent  
2006

2004- Member of the School of Physical Sciences Recruitment Committee, University of  
2006 Kent

2004 Director, Schools' Symposium, University of Kent

2002- Member of the School of Physical Sciences Learning and Teaching Committee,  
2006 University of Kent

2002- Schools' Liaison Officer, School of Physical Sciences, University of Kent. In this  
2004 role Stephen Serjeant arranged talks for schools, ran the Physics Teacher Focus Group, assisted with school bids for Specialist Status, and ran a Free Equipment Loan Scheme for schools. This was the most vigorous programme of outreach to schools within the University.

## **5 RESEARCH AND SCHOLARSHIP**

### **Research interests and leadership**

Stephen Serjeant has a very strong research record with intellectual leadership demonstrated by leading several major current international research consortia and excellent publication statistics (section 9). The research is very well-aligned with long-term research council top priority areas identified by STFC PPAN.

Serjeant has a strong track mentoring record in promoting the interests and careers of young researchers by giving them high visibility in major, large international research consortia (e.g. promoting PDRA Negrello to leadership team of ESA Herschel ATLAS Key Project, PhD student Hopwood leading two Astrophysical Journal Letters and 2nd-authoring a Science paper for various major space observatory consortia). Serjeant also



mentored one of the two successful Daphne Jackson fellowship applicants in 2013.

Serjeant organised a 'think tank' for high-risk, high-return ALMA proposals for the ESA Herschel ATLAS international key project, at the Royal Astronomical Society in 2012. This has led directly to three fellowship proposals at the OU and is still driving thinking for many new projects on multiple international facilities.

- **Cosmology**

- Co-PI of e-MERLIN gravitational lensing legacy survey
- Science Associate on the ESA Planck High Frequency Instrument

- **Far-infrared and submm extragalactic surveys**

- PI of Gravitational Lensing Legacy Survey, South African Large Telescope. This project coordinates the follow-up work of four major European Space Agency Herschel Space Observatory international legacy survey teams, each with >100 international members: Herschel ATLAS (see below), HELMS, HERS, HerMES, and incorporating the Herschel SPT survey through the HELP consortium. Serjeant mentored his PDR A Marchetti into leading the new large gravitational lens selection in HELMS and HERS.
- PI of Herschel legacy survey of the North Ecliptic Pole. This 82-strong international consortium spans three continents.
- Co-PI of Active Galaxies and Rare Objects working group in Herschel ATLAS key project (one of the six science areas). This is the largest Open Time project on the European Space Agency Herschel mission, with 141 members covering 60 institutions from 12 countries. Member of the Herschel ATLAS Executive Committee governing this consortium.
- Co-ordinator, archive contact and extragalactic lead for the SCUBA-2 All-Sky Survey. This is the second largest legacy survey on the Anglo-Canadian-Dutch James Clerk Maxwell Telescope, with 48 members covering three nations.
- UK co-ordinator for the JCMT Local Galaxies legacy survey (a 53-membered Anglo-Canadian-Dutch consortium, PI Christine Wilson, Canada).
- Member of SCUBA Half Degree Extragalactic Survey (SHADES) and member of its steering committee
- Member of JCMT Cosmology Legacy Survey
- Science associate in SWIRE legacy survey on the NASA Spitzer Space Telescope
- Member of JCMT Debris Disks legacy survey (main interest is in the background objects)

- **Space Telescopes**

- Deputy UK Project Scientist for proposed €550 million SPICA space telescope (ESA M5).
- Co-PI of Galaxy Evolution through strong gravitational lensing work package for the ESA Euclid strong lensing and galaxy/AGN evolution working groups. Serjeant helped secure the North Ecliptic Pole as the premier northern Euclid deep field, covering 10deg<sup>2</sup> (almost identical to his Herschel NEP survey) and centred on the premier AKARI deep survey (see below).
- Member of AKARI Space Telescope guaranteed time team (a mission of the Japanese space agency JAXA) and PI of many guaranteed time programmes
- Member of proposed JAXA SPICA space telescope guaranteed time team (through Japanese collaboration)
- Co-I of proposed JAXA/ESA SPICA space telescope SAFARI instrument (through European ESA collaboration)
- Co-I of proposed ESA Far-Infrared Interferometer
- **Extragalactic near/mid-infrared astronomy**
  - Cosmic near-infrared background
  - Member of UKIDSS Ultra Deep Survey
  - Member of VISTA legacy surveys: VIKING, VIDEO, ULTRAVISTA, Hemisphere Survey
  - Member of Spitzer Ultra Deep Survey

### **Research funding**

Serjeant has been awarded approximately £1.68million in the past 6 years. With the 2013 Consolidated Grant extending his PDRA funding to 31st March 2017 and his EU/Ogden funding supporting his second PDRA to December 2018, **he will have been supported by external peer-reviewed PDRA funding for over twelve consecutive years during a period of contraction of external funding sources for blue-skies science.**

In addition to the grant awards below, there is a much larger body of facility time. In the RAE period this amounted to £802,000 plus £2.1 million of notional funding value for the JCMT Legacy Surveys; in the REF 2014 period, the notional value of just Serjeant's 49 hours on the Herschel Space Observatory (a ~4 year 1.2 billion euro mission) has a cost-equivalence of about half a century of PDRA funding.

Please note that STFC (and before that PPARC) grants only *allow one bid per department*, as a means of managing demand on the grants line and for limiting the administrative burdens on the research councils. For this reason, many of the successful bids listed below appear as part of a single department-wide Consolidated Grant or Rolling Grant project. The themes within the project are nevertheless entirely independent: each

individual project is instigated, written, defended in peer review, and led by the individual academics, and should be regarded as free-standing projects within the framework of the departmental grant. This mechanism is unique to STFC/PPARC. Serjeant has several successful awards within this framework, and these should be considered as grants won independently. Serjeant was also PI of a PPARC Standard Grant PDRA award.

Funding with Serjeant as leader or PI is shown in ***bold italics***.

**2015 Project Title: Ogden Science Officer / Citizen Science Research Fellow**

***Funder: The Ogden Trust***

***Grant: £75,000 for an 0.5 FTE three-year post to add to Serjeant's Astronomy ESFRI And Research Infrastructure Clusters post funding, in order to appoint a full-time postdoctoral research assistant.***

***PI: Stephen Serjeant***

***Grant duration: Jan 2015 - Dec 2018***

**2015 Project Title: Astronomy ESFRI And Research Infrastructure Clusters**

***Funder: Horizon 2020 INFRADEV-4***

***Grant: £275,006 (Serjeant is PI of Work Package 2) as part of a €15 million Euro award led by ASTRON, Netherlands. Note that this is funding a research fellow, and is NOT public engagement.***

***Grant duration: May 2015 - April 2019***

2014 Project Title: EU Space Awareness

Funder: Horizon 2020

Grant: £45,000 (as part of €2 million Euro award led by Leiden) for research awareness video resources. The project aims to attract young people into science and technology and stimulate European and global citizenship; Serjeant is leading astronomy video educational resources for this project, applying OU distance education expertise to the societal challenges of facilitating STEM careers and international tolerance.

Grant duration: Jan 2015 - Dec 2017

**2013 Project Title: Astronomy and Planetary Science at the Open University**

Funder: Science and Technology Facilities Council

Grant: ***approx. £250,000 for cosmology theme led by Serjeant*** in an overall grant award of ~£3.5-4 million.

Co-investigators: M. Grady (PI), J.S. Clarke, C. Haswell, I. Wright, A. Verchovsky, A. Hagermann, H. Fraser, S. Green, I. Franchi, I. Gilmour, M. Anand, M. Balme, S. Lewis, D. Rothery

Grant duration: April 2014 - March 2017

**2012 Project Title: 60 Second Adventures in Astronomy**

Funder: Science and Technology Facilities Council

Grant: ***£100,000 (case written by Serjeant)***

Co-investigators: J. Sumner (PI), S. Serjeant, A. Norton, D. Rothery.

Grant duration: 2012-2014

**2012** Project Title: Open University Consolidated Grant Phase 1

Funder: Science and Technology Facilities Council

Grant: **£472,196, the majority of which supported the theme led by Stephen Serjeant.**

Co-investigators: J.S. Clark, S.R. Lewis, U.C. Kolb, A.J. Norton, N.J. Mason, M. Negrello, C.A. Haswell, G. White (PI of overall grant).

Grant duration: April 2012 - Feb 2016

**2009** Project Title: Open University Rolling Grant 2009-2014

Funder: Science and Technology Facilities Council

Grant: £1.55 million **of which £0.46 million is due directly to Theme Three led by Stephen Serjeant.** This is one of the two PDRAs awarded in this Rolling Grant.

Co-investigators: J.S. Clark, S.R. Lewis, U.C. Kolb, A.J. Norton, N.J. Mason, A. Holland, N. StJ. Braithwaite, C.A. Haswell, G. White (PI of overall grant).

Grant duration: April 2009 - Feb 2012

2009 Project Title: Euclid Phase-A Studies

Funder: Science and Technology Facilities Council

Grant: £27,006

Collaborators: A. Holland (PI)

Grant duration: Oct 2008 - March 2010

2008 Project Title: SPICA/ESI Study

Funder: Science and Technology Facilities Council

Grant: £8,402

**2006 Project Title: From the Local Universe to the First Massive Galaxies**

**Funder: Particle Physics and Astronomy Research Council**

**Grant: £158,000**

**Grant duration: Nov 2006 - March 2009**

**2007 Project Title: Royal Society International Joint Project**

**Funder: Royal Society**

**Grant: £12,000**

**Grant duration 2007-2008**

**2007 Project Title: Visit by young scientists to Japan**

**Funder: Great Britain Sasakawa Foundation**

**Grant: £4,500**

**Grant duration: 2007-2008**

The following grants pre-date Serjeant's arrival at the Open University.

**2005 Project: Artist in Residence**

**Funder: Leverhulme Trust**

**Grant: £11,000**

**2004 Project: Visiting Research Fellowship for Dr Lee**

**Funder: Royal Society**

**Grant: £18,200**

**2004 Project Title: PATT Rolling Grant**

**Funder: Particle Physics and Astronomy Research Council**

**Grant: £29,647**

2003 Project Title: The AKARI All-Sky Survey

Funder: Particle Physics and Astronomy Research Council

Grant: £150,314

Collaborators: G. White (PI), S. Oliver.

2003 Project Title: The AKARI All-Sky Survey

Funder: Particle Physics and Astronomy Research Council

Grant: £71,073

Collaborators: G. White (PI), S. Oliver.

**2003 Project Title: Links between University Physics departments and schools**

**Funder: Institute of Physics**

**Grant: £750**

**2002 Project Title: Two Kent Space Schools**

**Funder: Particle Physics and Astronomy Research Council**

**Grant: £1,200**

**2002 Project Title: Observing runs (five grants)**

**Funder: Particle Physics and Astronomy Research Council**

**Grant: £6,029 in total.**

**2002 Project Title: Nuffield New Lecturers Grant**

**Funder: Nuffield Foundation**

**Grant: £4000**

**2002 Project Title: Conference Grant**

**Funder: Royal Society**

**Grant: £851**

## **6 POSTGRADUATE STUDENT SUPERVISION**

2015- Supervisor of Andrew Davies (STFC-funded)  
present Expected PhD completion September 2018

2014- Second supervisor of Ashley Spindler (STFC-funded)  
present Expected PhD completion September 2017

- 2014- Joint supervisor of Laia Barrufet de Soto (CEPSAR/RAL-funded)  
present Expected PhD completion December 2017
- 2014- Joint supervisor of MPhil student Lawrence Bilton (self-funded)  
2016 MPhil awarded Sept 2016.  
*Bilton is now a PhD student in Hull.*
- 2013- Supervisor of Helen Davidge (STFC-funded)  
present PhD awarded May 2017 (viva delayed due to lengthy panel approval process)  
Davidge won the AOUG John Horlock Vice Chancellor award, won a competitive three-month postgraduate JSPS fellowship at the Japanese space agency JAXA near Tokyo, has one refereed paper accepted, one submitted, and a third in preparation. *She is currently working on a medical physics data analysis project at Royal Marsden Hospital.*
- 2011- Supervisor of Simon Amber (STFC-funded)  
present PhD awarded in January 2016  
Amber won the CEPSAR student talk prize and co-published seven refereed papers during his PhD, all resulting directly from his thesis.  
*Amber is now working for BAe Systems using his image processing in the field of Applied Intelligence*
- 2009- Supervisor of Chris Sedgwick (self-funded, part time)  
present Passed PhD viva in October 2015 with corrections, which he completed in March 2016. He has published or co-published sixteen papers during the course of his PhD (eight refereed), all resulting directly from his thesis, six of which he led himself (three refereed).
- 2010- Second supervisor of Kiz Natt (STFC/OU-funded)  
2015 PhD awarded Feb 2016  
*Natt is now applying her image processing in medical imaging for Adaptix Ltd*
- 2012- Second supervisor of Jon Gregson (STFC/OU-funded)  
2017 Submission delayed until 2017 due to serious illness; being examined for MPhil.
- 2012- Second supervisor of PhD student Aleksu Suutarinen (EU-funded)  
2014 PhD awarded in June 2015  
*Suutarinen is currently a Senior Data Scientist at Big Data Scoring, Helsinki.*
- 2009- Supervisor of Dominic Goodfellow (STFC-funded)  
2012 MPhil awarded in 2012  
Goodfellow's supervision required careful consultation with the OU's Autism Research Group, including detailed adaptations to his working environment and a significantly non-standard supervision routine requiring very significant additional time investments. The MPhil was a major achievement and confidence boost for him personally, and a major supervisory success.

2007- Supervisor of Rosalind Hopwood (STFC-funded)

2010 PhD awarded in 2012

Hopwood won the CEPSAR student talk prize and the AOUG John Horlock Vice Chancellor award, and was invited to the House of Commons to present her research. Her publication record from her thesis is nothing short of spectacular: two first-authored Astrophysical Journal Letters, one co-authored Astrophysical Journal Letter, second author on a Letter to Science, all resulting directly from her PhD.

*Hopwood is now a research fellow at Imperial College.*

2007- Supervisor of Chris Bishop (STFC-funded)

2010 Part-time M.Phil student, co-supervised externally - awarded 2010

*Bishop is now a lecturer at the University of Plymouth.*

2002- Supervisor of Angela Mortier (four-year thesis jointly funded by STFC (years 2-4)  
2006 and University of Kent (year 1))

PhD awarded in 2006. As part of her PhD, Mortier led a flagship paper defining a major legacy project on the James Clerk Maxwell Telescope in Hawaii. In total she co-authored six refereed papers directly resulting from her thesis.

*Mortier is now a research fellow at the University of Hertfordshire.*

*Also, third-party monitor for several DPS postgraduate students.*

## **7 EXTERNAL ACADEMIC ACTIVITIES**

### **University relations, including negotiations and local liaison**

24 May 2016 Commanded by Her Majesty the Queen, through the Lord Chamberlain, to attend a Garden Party at Buckingham Palace. The invitation was as a result of Serjeant's role in the Council of the Royal Astronomical Society.

2015- present Invited to serve on the STFC Astronomy Advisory Panel (AAP), whose remit includes developing and maintaining STFC's science vision and long term strategy in astronomy, and developing the astronomy technology roadmap. It reports directly to STFC Science Board; Serjeant contributed to designing the 2016 community survey and was responsible for summarising the community views on career structure in AAP's Balance of Programmes review, which reported to Science Board on 2 Oct 2016. Serjeant had previously argued AAP was under-represented in THz astronomy, despite the UK's world-leading track record in this area and STFC co-funding UK university investments (including the OU's) in the JCMT. The UK community bidding aggressively for heavily oversubscribed ALMA time badly needed better representation. In particular, the 'molecular universe' infrared/THz strategic theme Serjeant developed at the OU will benefit from this better representation.

2015- Elected to the Council of the Royal Astronomical Society (RAS). Serjeant initiated

- 2018 the discussions on responding to the Geoff Marcy scandal in the US; as a result the RAS was the first learned society to make a proactive and public stand against harassment in response, and set the standard for later statements by e.g. the Australian Astronomical Society, the Canadian Astronomical Society / Societe Canadienne d'Astronomie, and the American Astronomical Society.
- 2016- Member of Royal Astronomical Society Committee for Diversity in Astronomy and  
2018 Geophysics; leading implementation of national mentoring scheme
- 2016- Member of Steering Committee for Royal Astronomical Society 200th  
2018 Anniversary activities, and member of RAS200 working group. Opened discussions with BBC Director of Proms for a classical music commission.
- 2016- Member of Royal Astronomical Society Awards Committee, deciding the  
2018 recipients of society medals and other prizes.
- 2015- Deputy UK Project Scientist for the proposed €550 million SPICA space  
present telescope (ESA M5 call). **Serjeant's formalised use cases have proven critical in all areas of the science case.**
- 2014- Invited to help develop the high redshift science case in the ESA WISH €550  
present million M5 mission
- 2015- Member of Steering Committee for Royal Astronomical Society 200th  
present Anniversary activities
- 2014- Member of UK Square Kilometre Array Science Committee (STFC committee),  
present and SKA institutional point of contact for OU. Serjeant co-organised a national community-building SKA meeting at the Royal Astronomical Society in spring 2015. **This committee has greatly increased the UK community engagement in the SKA beyond radio astronomy specialists (thanks to its efforts, far greater cross-community UK engagement than many space telescopes).**
- 2014- OU representative in the Royal Astronomical Society Astronomy Forum, advising  
present STFC confidentially (Chatham House Rules) on its strategic priorities
- 2014- Member of the Executive Board and leading the citizen science work package for  
present ASTERICS, a €15 million Horizon 2020 research infrastructure award supporting European Strategy Forum Research Infrastructures.
- 2015- Editor, Open Journal of Astrophysics, an experimental open access peer-reviewed  
present top-end to the arXiv. **This is an experiment in green open access publishing led by UK universities; Serjeant has argued successfully for an inclusive editorial policy that will set OJA apart from all other journals worldwide in astronomy and provide a distinctive new role in open access publishing.**
- 2015- Associate editor, Publications of the Astronomical Society of Australia. Serjeant



- present led a discussion of unconscious bias and the journal adopted his recommendation of becoming the first international astronomy journal to offer optional double-blind peer review. **Serjeant has driven the publication of SPICA science cases that will greatly increase the journal impact factor (3.1 in 2012).**
- 2012- present Co-lead of UK Time Allocation Committee for South African Large Telescope
- 2014- present UK representative of the international legacy survey time allocation committee, South African Large Telescope
- 2014- present UK James Clerk Maxwell Telescope executive board member, representing the OU and Liverpool John Moores University
- 2014- 2015 Organiser of IAU Commission proposal for Gravitational Lensing, mobilising ~2% of the worldwide astronomy community
- 2009- 2010 Representative of the OU negotiating bids for International Astronomical Union Office for Astronomy Development (liaising with Oxford University, Faulkes telescope, South African Astronomical Observatory and several other institutions).

### **External examining**

- 2016 University of Sussex, D.Phil. examiner for Charlotte Clarke
- 2016 University of Hertfordshire, Ph.D. examiner for Gulay Gurkan
- 2015 University of Manchester, M.Sc. examiner for Hannah Stacey
- 2015 SISSA, Italy, Ph.D. examiner for Ivano Baronchelli
- 2015 SISSA, Italy, Ph.D. examiner for Giulia Despali
- 2015 SISSA, Italy, Ph.D. examiner for Matteo Bonato
- 2013 Queen Mary College, Ph.D. examiner of Simone Fleuren
- 2011 University of Hertfordshire, M.Sc. examiner for Eleni Kalfountzou
- 2005 University of Cardiff, Ph.D. examiner of Catherine Vlahakis

### **Contributions to conferences**

- July 2017 Talk presented at National Astronomy Meeting, Hull, UK
- June 2017 Invited talk, Euclid consortium meeting, London, UK

June 2017	Invited review, launch of STFC Food Network+, Manchester, UK
June 2017	Invited talk, GravityCam workshop, Open University, UK
March 2017	Plenary lecture, A Broadband Look at Astrophysical Processes, Southampton, UK
Dec 2016	Review talk, SPICA workshop, Royal Astronomical Society, UK
Nov 2016	Plenary lecture, University of Johannesburg postgraduate summer school
April 2016	Science Organising Committee member for Square Kilometre Array: Delivering The Science, national workshop at University of Cambridge
June 2015	Keynote presentation at the South African Large Telescope science conference, Stellenbosch, South Africa
March 2015	Co-organiser of UK Square Kilometre Array national meeting at the Royal Astronomical Society
July 2014	Science Organising Committee, "The Universe in the Light of AKARI" international conference, Oxford
June 2014	Organiser, Extragalactic Astrochemistry meeting at Royal Astronomical Society
2011	Session chair at International Astronomical Union Symposium 284
2009	Chair of session at Hunting For The Dark conference, Malta
2009	Organiser of national meeting at the Royal Astronomical Society
2008	Organiser and chair of eMERLIN Gravitational Lensing Key Project consortium meeting at the OU
2008	Co-chair of Jodrell Bank gravitational lensing key project consortium meeting
2006	Co-chair of international SCUBA-2 All-Sky Survey consortium meeting, University of Hertfordshire
2002- 2006	Organiser of several international AKARI consortium meetings

### **Invited lectures**

Oct 2016 (Invited public engagement talk at Bristol Astronomical Society)

May 2016 Invited seminar at University of Nottingham

April 2016 Invited seminar at University of Hertfordshire

March 2016 (Invited public engagement talk at Peterborough Astronomical Society)

Dec 2015 (Narrator for astronomy-themed International Year of Light concert by Towcester Choral Society)

July 2015 (Invitation to participate at MIAPP workshop, Munich - unfortunately clashed with observing run)

June 2015 (Invited public engagement talk at Luhlusa high school, Khayelitsha, South Africa, linked to the South African Large Telescope science conference)

April 2015 Invited talk at the Kavli Citizen Science workshop

May 2014 Invited lecture at Astrium (postponed to 2016 due to diary clashes)

Oct 2013 (Invited public engagement talk at Theydon Bois Astronomical Society)

Aug 2013 (Invited public engagement talk at Rugby & District Astronomical Society)

July 2013 (Invited public engagement talk at Bournemouth Natural History Society)

Jun 2013 Invited talk at National Astronomy Meeting

March 2013 (Invited semi-popular talk at Cambridge CUAS)

Feb 2013 Invited seminar at MSSL, University College London

Nov 2012 (Invited public engagement talk at Wessex Astronomical Society)

Sept 2012 (Invited public engagement talk at Herschel Society, Bath)

July 2012 Invited seminar at Rutherford Appleton Laboratory

June 2012 (Invited public engagement talk at Wellingborough Astronomical Society)

Feb 2012 Invited seminar at 2012 AKARI Conference, Korea

June 2011 Invited presentation to the JCMT Board

May 2011 Invited seminar at Jodrell Bank

Nov 2010 Invited seminar at Portsmouth University

Nov 2010 Invited seminar at Oxford University

Nov 2010 (Invited public engagement talk at Isle of Wight astronomical society)

Aug 2010 (Invited public engagement talk at Loughton Astronomical Society)

June 2010 Invited seminar at Mullard Space Science Laboratory

April 2010 (Invited public engagement talk at Worthing Astronomical Society)

March 2010 Invited seminar at QMW

Dec 2010 (Invited public engagement talk at University of Kent, Institute of Physics)

Sept 2009 Invited seminar at Hunting For The Dark conference, Malta

June 2009 (Invited public engagement talk at Redditch Astronomical Society)

June 2009 Invited research talk at Royal Observatory Edinburgh

June 2009 Chair of SASSy consortium meeting, Royal Observatory Edinburgh

May 2009 Invited research talk, Padova University

June 2008 Invited talk at ESA ESTEC, The Netherlands

June 2008 (Invited public engagement talk at the Cambridge Astronomical Association)

April 2008 Invited semi-popular review talk at the Oxford University Department of Continuing Education

Feb 2008 Invited seminar at the Institute of Astronomy, Cambridge University

Feb 2008 (Invited public engagement talk, Wolverhampton Astronomical Society)

Oct 2007 Invited talk at eMERLIN meeting at Jodrell Bank

July 2007 Invited talk at eMERLIN meeting at Jodrell Bank

May 2007 Invited short talk at Kilo-Degree Herschel consortium meeting, Cardiff University

April 2007 (Invited public engagement talk, Birmingham Astronomical Association)

Mar 2007 (Invited public engagement talk, Wadhurst Astronomical Society)

Mar 2007 (Invited public engagement talk, Luton Astronomical Society)

Dec 2006 Invitation to the SCUBA-2 Cosmology Survey meeting in Durham in which Serjeant negotiated the inclusion of the AKARI NEP deep field as a survey region

Nov 2006 Invited review lecture at Tucson, Arizona for planning of future US optical interferometers

Oct 2006 Invited short talk at SCUBA workshop, Royal Observatory Edinburgh

July 2006 Invited seminar at Institute for Space and Astronautical Sciences, Japan

July 2006 Invited review seminar at ESOF symposium, Munich, Germany

July 2006 Invited short talk at SWIRE consortium meeting, Tenerife

April 2006 Invited short talk at SHADES consortium meeting, Edinburgh

Prior to OU employment: several other invited research seminars and numerous other public engagement talks.

## **8 OTHER INFORMATION**

2014 Serjeant's research featured in the OU Annual Report 2014.

2010-  
present Serjeant has contributed dozens of OpenLearn articles

Present Serjeant is among the top 200 most-followed worldwide astronomers on Twitter, engaging in dialogue and debate with the non-professional community daily.

2014 With MCT colleague Marian Petre and in collaboration with US volunteer organisation The Software Carpentry, invited to submit a funding request to the Arnold Foundation, for a postgraduate MOOC in scientific software development in astronomy (presented as a Badged Open Course); this is now also being pursued through an STFC Large Award bid.

2014-  
present Invited to help develop the high redshift / lensing science case in the ESA/China FIRSPEX S-class mission, now re-envisioned for the M5 call as the INSPIRE mission.

2012 Paid consultant on BBC science webpages.

2012 Invited contributor to ESA FIRI Large Mission science case

2012 Contributor to ESA Interstellar Probe Large Mission science case

2009-  
present Invited contributor to ESA/JAXA SPICA space telescope science case

2009-  
2012 Writer of Life Science segments for The Times newspaper's monthly Eureka magazine

2009-  
present Talking head for OU iTunesU LHC album with 28,000 downloads as of January 2010.

2008-  
present Total of >170,000 OU YouTube hits for items featuring Stephen Serjeant

2012-  
present Total of >800,000 OU YouTube views for Serjeant's 60 Second Adventures in Astronomy, plus an additional 1.1 million views for further 60 Second Adventures in Thought episodes in which Serjeant consulted

2007 Invited contributor to ESA Darwin space telescope mission.

Regular reviewer for papers in ApJ, MNRAS, A and A, etc., for fellowships and consolidated grants e.g. for STFC, and for major projects submitted to STFC's Projects Peer Review Panel, etc..

## 9 PUBLICATIONS

Stephen Serjeant is the author or co-author of 240 publications. Of these, 34 are first-authored (meaning he has made the major intellectual contribution) and 24 are first-authored in refereed journals. He has a total of **10949 citations** to date. **Hirsch index: 53.**

### Authored Books

Mark H. Jones, Robert J.A. Lambourne, **Stephen Serjeant**, An Introduction to Galaxies and Cosmology, Cambridge University Press, ISBN: 9781107492615 (33% contribution) (See section 3 - course unit)

S. Clark, S. Green, **S. Serjeant**, Galaxies, Stars and Planets, Open University, 228pp, ISBN 978-1-7800-7334-7. (25% contribution) (See section 3 - course unit)

**S Serjeant** (2010) Observational Cosmology, Cambridge University Press, 250pp, ISBN-13: 9780521192316. (100% contribution) (See section 3 - course unit and advanced undergraduate textbook co-published by CUP)

S Blake, **S Serjeant** and S Smith (2007) Earth and Space, Open University, 250 pp, ISBN 978-0-7492-2667-1. (30% contribution) (See section 3 - course unit)

### Four selected papers:

- **Serjeant, S.**, 2014, Up to 100,000 Reliable Strong Gravitational Lenses in Future Dark Energy Experiments, Astrophysical Journal Letters, 793, 10
- **Serjeant, S.**, 2012, Strong biases in infrared-selected gravitational lenses, Monthly Notices of the Royal Astronomical Society, 424, 2429
- **Serjeant, S.**, et al., 2010, Herschel ATLAS: The cosmic star formation history of quasar host galaxies, Astronomy & Astrophysics, 514, A10
- Negrello, M., et al. (**including Serjeant**), 2010, The Detection of a Population of Submillimeter-Bright, Strongly Lensed Galaxies, Science, 330, 800

### Articles in Refereed Journals

*Note that while "percentage contributions" are required by the OU, this is not necessarily a good model for characterising contributions to astronomy publications, since it assumes some effective conversion between contributions of very different types (e.g. time, data collection, software development, analysis, original ideas, critical appraisal, supervision, management). In general in astronomy, where a consensus exists for an individual having made a larger contribution, they are placed earlier in the author list. In the publications below, the default is "pro rata contribution", meaning 1/Nth for N authors. Where a specific case can be made for a larger contribution than this default, this is indicated.*

Quinn, Jonathan, Jackson, Neal, Tagore, Amitpal, Biggs, Andrew, Birkinshaw, Mark, Chapman, Scott, De Zotti, Gianfranco, McKean, John, Pérez-Fournon, Ismael, Scott, Douglas, and Serjeant, Stephen, A new VLA/e-MERLIN limit on central images in the gravitational lens system CLASS B1030+074, *Monthly Notices of the Royal Astronomical Society*, 459, 2394 (pro rata contribution)

Serjeant, Stephen, Strong Gravitational Lenses and Multi-Wavelength Galaxy Surveys with AKARI, Herschel, SPICA and Euclid, To appear in *Publications of the Korean Astronomical Society*. Based on review at *The Universe in the Light of AKARI and Synergy with future Large Space Telescopes*, Oxford, 2014. (arXiv:1604.00282) (100% contribution)

Serjeant, Stephen, Synergies between SALT and Herschel, Euclid & the SKA: strong gravitational lensing & galaxy evolution, *Proceedings of Science*, in press. Invited review for SALT Science Conference, Stellenbosch, South Africa, 2015 (arXiv:1604.00271) (100% contribution)

Mok, Angus, Wilson, C. D., Golding, J., Warren, B. E., Israel, F. P., Serjeant, S., Knapen, J. H., Sánchez-Gallego, J. R., Barmby, P., Bendo, G. J., Rosolowsky, E., and van der Werf, P., The JCMT nearby galaxies legacy survey - X. Environmental effects on the molecular gas and star formation properties of spiral galaxies, *Monthly Notices of the Royal Astronomical Society*, 456, 4384 Baronchelli, I., Scarlata, C., Rodighiero, G., Franceschini, A., Capak, P. L., Mei, S., Vaccari, M., Marchetti, L., Hibon, P., Sedgwick, C., Pearson, C., Serjeant, S., Menéndez-Delmestre, K., Salvato, M., Malkan, M., Teplitz, H. I., Hayes, M., Colbert, J., Papovich, C., Devlin, M., Kovacs, A., Scott, K. S., Surace, J., Kirkpatrick, J. D., Atek, H., Urrutia, T., Scoville, N. Z., and Takeuchi, T. T., The Spitzer-IRAC/MIPS Extragalactic Survey (SIMES) in the South Ecliptic Pole Field, *The Astrophysical Journal Supplement Series*, 223, 1 (pro rata contribution)

Eales, Stephen, Fullard, Andrew, Allen, Matthew, Smith, M. W. L., Baldry, Ivan, Bourne, Nathan, Clark, C. J. R., Driver, Simon, Dunne, Loretta, Dye, Simon, Graham, Alister W., Ibar, Edo, Hopkins, Andrew, Ivison, Rob, Kelvin, Lee S., Maddox, Steve, Maraston, Claudia, Robotham, Aaron S. G., Smith, Dan, Taylor, Edward N., Valiante, Elisabetta, Werf, Paul van der, Baes, Maarten, Brough, Sarah, Clements, David, Cooray, Asantha, Gomez, Haley, Loveday, Jon, Phillipps, Steven, Scott, Douglas, and Serjeant, Steve, H-ATLAS/GAMA: quantifying the morphological evolution of the galaxy population using cosmic calorimetry, *Monthly Notices of the Royal Astronomical Society*, 452, 3489 (pro rata contribution)

Goto, Tomotsugu, Oi, Nagisa, Ohyama, Youichi, Malkan, Matthew, Matsuhara, Hideo, Wada, Takehiko, Karouzos, Marios, Im, Myungshin, Nakagawa, Takao, Buat, Veronique, Burgarella, Denis, Sedgwick, Chris, Toba, Yoshiki, Jeong, Woong-Seob, Marchetti, Lucia, Małek, Katarzyna, Koptelova, Ekaterina, Chao, Dani, Wu, Yi-Han, Pearson, Chris, Takagi, Toshinobu, Lee, Hyung Mok, Serjeant, Stephen, Takeuchi, Tsutomu T., and Kim, Seong Jin, Evolution of mid-infrared galaxy luminosity functions from the entire AKARI NEP deep field with new CFHT photometry, *Monthly Notices of the Royal Astronomical Society*, 452, 1684 (pro rata contribution)

De Zotti, G., Castex, G., González-Nuevo, J., Lopez-Caniego, M., Negrello, M., Cai, Z.-Y., Clemens, M., Delabrouille, J., Herranz, D., Bonavera, L., Melin, J.-B., Tucci, M., Serjeant, S., Bilicki, M., Andreani, P., Clements, D. L., Toffolatti, L., and Roukema, B. F., Extragalactic sources in Cosmic Microwave Background maps, *Journal of Cosmology and Astro-Particle Physics*, 6, 018 (pro rata contribution)

Jun, Hyunsung David, Im, Myungshin, Lee, Hyung Mok, Ohyama, Youichi, Woo, Jong-Hak, Fan, Xiaohui, Goto, Tomotsugu, Kim, Dohyeong, Kim, Ji Hoon, Kim, Minjin, Lee,

Myung Gyoon, Nakagawa, Takao, Pearson, Chris, and Serjeant, Stephen, Rest-frame Optical Spectra and Black Hole Masses of  $3 < z < 6$  Quasars, *The Astrophysical Journal*, 806, 109 (pro rata contribution)

Buat, V.; Oi, N.; Heinis, S.; Ciesla, L.; Burgarella, D.; Matsuhara, H.; Malek, K.; Goto, T.; Malkan, M.; Marchetti, L.; Ohyama, Y.; Pearson, C.; Serjeant, S.; Miyaji, T.; Krumpke, M.; Brunner, H.; Dust attenuation up to  $z \sim 2$  in the AKARI North Ecliptic Pole Deep Field, *Astronomy & Astrophysics*, Volume 577, id.A141, 14 pp (pro rata contribution)

Jun, Hyunsung David; Im, Myungshin; Lee, Hyung Mok; Ohyama, Youichi; Woo, Jong-Hak; Fan, Xiaohui; Goto, Tomotsugu; Kim, Dohyeong; Kim, Ji Hoon; Kim, Minjin; Lee, Myung Gyoon; Nakagawa, Takao; Pearson, Chris; Serjeant, Stephen; Rest-frame Optical Spectra and Black Hole Masses of  $3 < z < 6$  Quasars, *The Astrophysical Journal*, in press (arXiv:1504.00058) (pro rata contribution)

De Zotti, G.; Castex, G.; Gonzalez-Nuevo, J.; Lopez-Caniego, M.; Negrello, M.; Cai, Z.-Y.; Clemens, M.; Delabrouille, J.; Herranz, D.; Bonavera, L.; Melin, J.-B.; Tucci, M.; Serjeant, S.; Bilicki, M.; Andreani, P.; Clements, D. L.; Toffolatti, L.; Roukema, B. F.; Extragalactic sources in Cosmic Microwave Background maps, *The Astrophysical Journal*, in press (arXiv:1501.02170) (pro rata contribution; Serjeant contributed to the lensed source predictions)

Calanog, J. A., Fu, Hai, Cooray, A., Wardlow, J., Ma, B., Amber, S., Baker, A. J., Baes, M., Bock, J., Bourne, N., Bussmann, R. S., Casey, C. M., Chapman, S. C., Clements, D. L., Conley, A., Dannerbauer, H., De Zotti, G., Dunne, L., Dye, S., Eales, S., Farrah, D., Furlanetto, C., Harris, A. I., Ivison, R. J., Kim, S., Maddox, S. J., Magdis, G., Messias, H., Michałowski, M. J., Negrello, M., Nightingale, J., O'Bryan, J. M., Oliver, S. J., Riechers, D., Scott, D., Serjeant, S., Simpson, J., Smith, M., Timmons, N., Thacker, C., Valiante, E., and Vieira, J. D., Lens Models of Herschel-selected Galaxies from High-resolution Near-IR Observations, *The Astrophysical Journal*, 797, 138 (pro rata contribution)

Pearson, Chris P., Serjeant, S., Oyabu, S., Matsuhara, H., Wada, T., Goto, T., Takagi, T., Lee, H. M., Im, M., Ohyama, Y., Kim, S. J., and Murata, K., The first source counts at  $18\mu\text{m}$  from the AKARI NEP Survey, *Monthly Notices of the Royal Astronomical Society*, 444, 846 (30% contribution)

Serjeant, Stephen and Marchetti, Lucia, Constraints on the galaxy 'main sequence' at  $z > 5$ : the stellar mass of HDF850.1, *Monthly Notices of the Royal Astronomical Society*, 443, 3118 (80% contribution)

Serjeant, S., Up to 100,000 Reliable Strong Gravitational Lenses in Future Dark Energy Experiments, *The Astrophysical Journal*, 793, L10 (100% contribution)

Oi, Nagisa, Matsuhara, Hideo, Murata, Kazumi, Goto, Tomotsugu, Wada, Takehiko, Takagi, Toshinobu, Ohyama, Youichi, Malkan, Matthew, Im, Myungshin, Shim, Hyunjin, Serjeant, Stephen, and Pearson, Chris, Optical - near-infrared catalog for the AKARI north ecliptic pole Deep field, *Astronomy and Astrophysics*, 566, AA60 (pro rata contribution)

Negrello, M., Hopwood, R., Dye, S., Cunha, E. da, Serjeant, S., Fritz, J., Rowlands, K., Fleuren, S., Bussmann, R. S., Cooray, A., Dannerbauer, H., Gonzalez-Nuevo, J., Lapi, A., Omont, A., Amber, S., Auld, R., Baes, M., Buttiglione, S., Cava, A., Danese, L., Dariush, A., De Zotti, G., Dunne, L., Eales, S., Ibar, E., Ivison, R. J., Kim, S., Leeuw, L., Maddox, S., Michałowski, M. J., Massardi, M., Pascale, E., Pohlen, M., Rigby, E., Smith, D. J. B., Sutherland, W., Temi, P., and Wardlow, J., Herschel-ATLAS: deep HST/WFC3 imaging of strongly lensed submillimetre galaxies, *Monthly Notices of the Royal Astronomical Society*, 440, 1999 (10% contribution; Negrello was Serjeant's PDRA and Hopwood was Serjeant's graduate student.)



Karouzos, Marios, Im, Myungshin, Trichas, Markos, Goto, Tomo, Malkan, Matt, Ruiz, Angel, Jeon, Yiseul, Kim, Ji Hoon, Lee, Hyung Mok, Kim, Seong Jin, Oi, Nagisa, Matsuhara, Hideo, Takagi, Toshinobu, Murata, K., Wada, Takehiko, Wada, Kensuke, Shim, Hyunjin, Hanami, Hitoshi, Serjeant, Stephen, White, Glenn J., Pearson, Chris, and Ohyama, Youichi, A Tale of Two Feedbacks: Star Formation in the Host Galaxies of Radio AGNs, *The Astrophysical Journal*, 784, 137 (pro rata contribution)

Smith, D. J. B., Hardcastle, M. J., Jarvis, M. J., Maddox, S. J., Dunne, L., Bonfield, D. G., Eales, S., Serjeant, S., Thompson, M. A., Baes, M., Clements, D. L., Cooray, A., De Zotti, G., González-Nuevo, J., van der Werf, P., Virdee, J., Bourne, N., Dariush, A., Hopwood, R., Ibar, E., and Valiante, E., Isothermal dust models of Herschel-ATLAS galaxies, *Monthly Notices of the Royal Astronomical Society*, 436, 2435 (pro rata contribution)

Bussmann, R. S., Perez-Fournon, I., Amber, S., Calanog, J., Gurwell, M. A., Dannerbauer, H., De Bernardis, F., Fu, H., Harris, A. I., Krips, M., Lapi, A., Omont, A., Riechers, D., Wardlow, J., Baker, A. J., Birkinshaw, M., Bock, J., Bourne, N., Clements, D. L., Cooray, A., De Zotti, G., Dunne, L., Dye, S., Eales, S., Farrah, D., Gavazzi, R., Gonzalez Nuevo, J., Hopwood, R., Ibar, E., Ivison, R. J., Maddox, S., Michalowski, M., Negrello, M., Oliver, S. J., Roseboom, I. G., Scott, D., Serjeant, S., Smith, A. J., Smith, M., Valiante, E., van der Werf, P., Verma, A., Vieira, J. D., Wang, L., Wilner, D., 'Gravitational Lens Models Based on Submillimeter Array Imaging of Herschel-selected Strongly Lensed Sub-millimeter Galaxies at  $z > 1.5$ ', *ArXiv e-prints*, 9/2013, arXiv:1309.0836, *ApJ* in press (pro rata contribution)

Sedgwick, C., Serjeant, S., Pearson, C., Smail, I., Im, M., Oyabu, S., Takagi, T., Matsuhara, H., Wada, T., Lee, H. M., Jeong, W.-S., White, G. J., 'Detection of H-alpha emission from  $z > 3.5$  submillimetre luminous galaxies with AKARI-FUHYU spectroscopy', *ArXiv e-prints*, 8/2013, arXiv:1308.5704, *MNRAS* in press (30 percent contribution)

George, R. D., Ivison, R. J., Hopwood, R., Riechers, D. A., Bussmann, R. S., Cox, P., Dye, S., Krips, M., Negrello, M., Neri, R., Serjeant, S., Valtchanov, I., Baes, M., Bourne, N., Clements, D. L., De Zotti, G., Dunne, L., Eales, S. A., Ibar, E., Maddox, S., Smith, M. W. L., Valiante, E., van der Werf, P., 'Far-infrared spectroscopy of a lensed starburst: a blind redshift from Herschel', *ArXiv e-prints*, 8/2013, arXiv:1308.4403, *MNRAS* in press (pro rata contribution; Serjeant contributed lens modelling)

Ivison, R. J., Swinbank, A. M., Smail, I., Harris, A. I., Bussmann, R. S., Cooray, A., Cox, P., Fu, H., Kovacs, A., Krips, M., Narayanan, D., Negrello, M., Neri, R., Penarrubia, J., Richard, J., Riechers, D. A., Rowlands, K., Staguhn, J. G., Targett, T. A., Amber, S., Baker, A. J., Bourne, N., Bertoldi, F., Bremer, M., Calanog, J. A., Clements, D. L., Dannerbauer, H., Dariush, A., De Zotti, G., Dunne, L., Eales, S. A., Farrah, D., Fleuren, S., Franceschini, A., Geach, J. E., George, R. D., Helly, J. C., Hopwood, R., Ibar, E., Jarvis, M. J., Kneib, J.-P., Maddox, S., Omont, A., Scott, D., Serjeant, S., Smith, M. W. L., Thompson, M. A., Valiante, E., Valtchanov, I., Vieira, J., van der Werf, P., 'Herschel-ATLAS: A Binary HyLIRG Pinpointing a Cluster of Starbursting Protoellipticals', *The Astrophysical Journal*, 8/2013, 772, 137- (pro rata contribution)

Clemens, M. S., Negrello, M., De Zotti, G., Gonzalez-Nuevo, J., Bonavera, L., Cosco, G., Guarese, G., Boaretto, L., Salucci, P., Baccigalupi, C., Clements, D. L., Danese, L., Lapi, A., Mandolesi, N., Partridge, R. B., Perrotta, F., Serjeant, S., Scott, D., Toffolatti, L., 'Dust and star formation properties of a complete sample of local galaxies drawn from the Planck Early Release Compact Source Catalogue', *Monthly Notices of the Royal Astronomical Society*, 7/2013, 433, 695-711 (pro rata contribution; Serjeant contributed local galaxy predictions)

Geach, J. E., Chapin, E. L., Coppin, K. E. K., Dunlop, J. S., Halpern, M., Smail, I., Werf, P.

v. d., Serjeant, S., Farrah, D., Roseboom, I., Targett, T., Arumugam, V., Asboth, V., Blain, A., Chrysostomou, A., Clarke, C., Ivison, R. J., Jones, S. L., Karim, A., Mackenzie, T., Meijerink, R., Michałowski, M. J., Scott, D., Simpson, J. M., Swinbank, A. M., Alexander, D. M., Almaini, O., Aretxaga, I., Best, P., Chapman, S., Clements, D. L., Conselice, C., Danielson, A. L. R., Eales, S., Edge, A. C., Gibb, A. G., Hughes, D., Jenness, T., Knudsen, K. K., Lacey, C. G., Marsden, G., McMahon, R., Oliver, S. J., Page, M. J., Peacock, J. A., Rigopoulou, D., Robson, E. I., Spaans, M., Stevens, J., Webb, T. M. A., Willott, C., Wilson, C. D., Zemcov, M., 'The SCUBA-2 Cosmology Legacy Survey: blank-field number counts of 450- $\mu$ m-selected galaxies and their contribution to the cosmic infrared background', *Monthly Notices of the Royal Astronomical Society*, 6/2013, 432, 53-61 (20 percent contribution; Serjeant contributed to the image reconstruction and stacking analysis)

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