

# Justyn Robert Maund

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## EMPLOYMENT

**Royal Society Research Fellow** University of Sheffield, U.K.

2014 -

Astrophysics Research Centre, Queen's University, Belfast, U.K.

2011-2014

**Sophie & Tycho Brahe Fellow** Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark and the Dept. of Astronomy, University of California, Santa Cruz, U.S.A.

2008-2011

**Post-doctoral Fellow** Dept. of Astronomy, University of Texas, Austin, U.S.A.

2005-2008

## EDUCATION

**PhD** Institute of Astronomy and Trinity College, Cambridge U.K. 2002-2005

PhD Research: The Observed Nature of the Progenitors of Core-Collapse Supernovae

Supervisor: Stephen J. Smartt

**MSci** University College, London U.K. 1998-2002

Astrophysics 1st Class Honours

Research Thesis: Wolf-Rayet Stars in the Galaxy and LMC

Supervisor: Paul Crowther

## AWARDS & GRANTS

- Royal Society Research Fellowship Extension (£270,875.09) 2016
- Royal Society Research Fellowship (£440,228) 2011
- Science and Technology Facilities Council Advanced Fellowship (£458,500 - declined) 2011
- Award for Research Excellence NBI/DARK (£2,000) 2010
- Københavns Universitet Faculty Research Grant Program (£83,000) 2008
- STScI grant GO10803 *Detecting the Progenitors of Core-collapse SNe* (£31,114) 2006
- PPARC Research Studentship for PhD research 2002 - 2005
- Trinity College Eddington Bursary 2003, 2005
- Herschel Prize, UCL 2002
- UCL Research Studentship, *The Sub-dwarf WR star HD45166* 2001
- Best Performance in Astrophysics Prize, UCL 2001
- Selected competitively from global applications to attend inaugural PPARC Summer School in Cambridge 2000
- Halley Prize, UCL 1999

## TELESCOPE TIME AWARDS

- European Southern Observatory Very Large Telescope - 71 hours as PI (including 6 hours of Director's Discretionary Time) and 94.9 hours as Co-I
- Hubble Space Telescope - 88 orbits (7 separate programs as PI) and 37 orbits (4 separate programs as Co-I).

## SELECTED TALKS

- Munich Institute for Astro- and Particle Physics (MIAPP) Summer Programme, Garching, Germany, *Direct Observations of the Progenitors of Supernovae*, August 2016, **Invited**
- "Stellar Populations Newton Meeting", Sao Paulo, Brazil, *Supernova Progenitors*, December 2015, **Invited**
- New York University, Center for Cosmology and Particle Physics seminar, November 2015, **Invited**
- Geneva Observatory seminar, *The progenitors of supernovae*, August 2015, **Invited**
- IAU General Assembly Focus Meeting 16, Stellar Behemoths, Honolulu, USA, *Red Supergiants as the Progenitors of Type IIP Supernovae*, August 2015, **Invited**
- Southampton, Physics and Astronomy departmental colloquium, "The Shapes of Supernovae", November 2014, **Invited**
- Warwick Astronomy seminar, *Red supergiants as the progenitors of supernovae*, November 2013, **Invited**
- Liverpool John Moores Astronomy seminar, *Red supergiants as the progenitors of supernovae*, November 2013, **Invited**
- "European Week of Astronomy and Space Science", Deaths of massive stars as supernovae and gamma-ray bursts Symposium, Turku, Finland, *The Progenitors of Core-collapse Supernovae*, July 2013, **Invited Review**
- "Supernovae Illuminating the Universe: From Individuals to Populations", Garching, Germany, *The Progenitors of Core-collapse Supernovae*, September 2012, **Invited Review**
- "European Week of Astronomy and Space Science", Symposium 7, Core-collapse Supernovae, Rome, Italy, *A Late-time View of the Progenitors of Core-collapse Supernovae*, July 2012, **Invited Review**
- "Relativistic Jets in the Universe", Copenhagen Denmark, *Asymmetries in Core-collapse Supernovae: The evidence for jets*, August, 2011
- "Stellar Death and Supernovae", KITP, Santa Barbara, U.S.A., *Spectropolarimetry of Core-collapse Supernovae*, August 2009, **Invited Review**
- Lund Observatory Colloquium, *The Progenitors of Core-collapse Supernovae*, January 2009, **Invited**
- Tuorla Observatory Colloquium, *The Progenitors of Core-collapse Supernovae*, May 2009, **Invited**
- "Probing Stellar Populations out to the Distant Universe", Cefalù, Italy, *The Progenitors of Core-collapse Supernovae*, September 2008, **Invited Review**
- AAS 209<sup>th</sup> meeting, *VLT FORS1 Spectropolarimetry of Core-Collapse Supernovae*, January 2007
- 3CAS meeting on Supernovae and Compact Objects, **Invited Review**, *The Progenitors of Supernovae*, December 2006
- Carnegie Observatories Colloquium *The Observed Nature of the Progenitors of Core-collapse Supernovae*, **Invited** January 2005

# Publication List

## Justyn Robert Maund

H-INDEX=34, 3644 CITATIONS  
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### REFEREED PUBLICATIONS

75. Thöne, C. C., de Ugarte Postigo, A., Leloudas, G., Gall, C., Cano, Z., Maeda, K., Schulze, S., Campana, S., Wiersema, K., Groh, J., de la Rosa, J., Bauer, F. E., Malesani, D., **Maund, J.R.**, Morrell, N., Beletsky, Y., 2016, MNRAS, submitted, arXiv:1606.09025  
*SN 2015bh: NGC 2770's 4th supernova or a luminous blue variable on its way to a Wolf-Rayet star?*
- \*74. Eldridge, J.J., **Maund, J.R.**, 2016, MNRAS, 461, L117 \*  
*The disappearance of the helium-giant progenitor of the Type Ib supernova iPTF13bvn and constraints on its companion*
- \*73. Stevance, H. F., **Maund, J. R.**, Baade, D., Höflich, P., Patat, F., Spyromilio, J., Wheeler, J. C., \*  
Clocchiatti, A., Wang, L., Yang, Y., Zelaya, P., 2016, MNRAS, 461, 2019  
*Spectropolarimetry of the Type IIb SN 2008aq*
72. Brown, P.J., Yang, Y., Cooke, J., Olaes, M., Quimby, R.M., Baade, D., Gehrels, N., Höflich, P., **Maund, J.R.**, Mould, J., Wang, L., Wheeler, J. C., 2016, ApJ, 828, 3  
*ASASSN-15lh: A Superluminous Ultraviolet Rebrightening Observed by Swift and Hubble*
71. Kangas, T., Portinari, L., Mattila, S., Fraser, M., Kankare, E., Izzard, R. G., James, P., Gonzalez-Fernandez, C., **Maund, J. R.**, Thompson, A., 2016, MNRAS, accepted, arXiv:1608.06097  
*Core-collapse supernova progenitor constraints using the spatial distributions of massive stars in local galaxies*
70. Leloudas, G., Patat, F., **Maund, J.R.**, Hsiao, E., Malesani, D., Schulze, S., Contreras, C., de Ugarte Postigo, A., Sollerman, J., Stritzinger, M.D., Taddia, F., Wheeler, J.C., Gorosabel, J., 2015, ApJ, 815, L10  
*Polarimetry of the Superluminous Supernova LSQ14mo: No significant deviations from spherical symmetry*
- \*69. **Maund, J.R.**, Ramirez-Ruiz, E., 2016, MNRAS, 456, 3175 \*  
*A high mass progenitor for the Type Ic Supernova 2007gr inferred from its environment*
- \*68. Reilly, E., **Maund, J.R.**, Baade, D., Wheeler, J.C., Silverman, J.M., Clocchiatti, A., Patat, F., \*  
Höflich, P., Spyromilio, J., Wang, L., Zelaya, P., 2016, MNRAS, 457, 288)  
*Spectropolarimetry of the Type Ib Supernova iPTF 13bvn: Revealing the complex explosion geometry of a stripped-envelope core-collapse supernova*
67. Yang, Y., Wang, L., Baade, D., Brown, P., Clocchiatti, A., Cracraft, M., Höflich, P., **Maund, J.R.**, Patat, F., Sparks, W.B., Spyromilio, J., Wang, X., Wheeler, J.C., 2015, ApJ, submitted, arXiv:1511.02495  
*The expanding light echoes from supernova 2014J in M82*
- \*66. **Maund, J. R.**, Arcavi, I., Ergon, M., Eldridge, J. J., Georgy, C., Cenko, S. B., Horesh, A., Izzard, \*  
R. G., Stancliffe, R. J., 2015, MNRAS, 454, 2580  
*Did the progenitor of SN2011dh have a binary companion?*