

CURRICULUM VITAE

DAVID JONES

CONTACT INFORMATION

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ACADEMIC EXPERIENCE

- 2015–present **Postdoctoral Researcher** - Insituto de Astrofísica de Canarias, Spain
• 3-year fellowship “Generic postdoc”
- 2014–2015 **Postdoctoral Researcher** - Insituto de Astrofísica de Canarias, Spain
• As part of the MINECO project “The Formation of Planetary Nebulae: The Binary Hypothesis” (P.I.: Dr. R.L.M. Corradi)
- 2014–2014 **ESO Fellow hosted at Universidad de Atacama** -
Universidad de Atacama, Chile
• Final year of ESO fellowship hosted at local university.
• Lecturer in Física 1 (Physics 1)
- 2011–2014 **ESO FORS2 Fellow** - European Southern Observatory, Santiago de Chile
• Night astronomer for UT1 and UT2
• Night-shift coordinator
• Fellows’ Representative (2012–2013)
• Evolved Stars Research Group coordinator (2013–2014)
• Colloquium organiser (2012–2013)
- 2007–2011 **PhD astrophysics** - Jodrell Bank Centre for Astrophysics,
University of Manchester, UK
• Thesis entitled: “The Influence of Central Star Binarity on the Morphologies of Planetary Nebulae”
• Supervisors: Dr. M. Lloyd and Dr. T.J. O’Brien
- 2008–2009 **INT support astronomer** - Isaac Newton Group of Telescopes, Spain
• Night-time support of 2.5-m Isaac Newton Telescope operations
• Independent scientific research as part of above PhD programme
- 2003–2007 **First class MPhys(Hons) Physics with Astrophysics** -
University of Manchester
• Awarded McDougall (Sir Robert) Scholarship - Feb 2004
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REFERENCES

Dr. Romano Corradi
Instituto de Astrofísica de
Canarias (IAC)
Centro de Astrofísica en La Palma
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TEACHING EXPERIENCE

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| 2015 | Lecturer/tutor at “Awareness 2015 - An ESO/OPTICON/IAU summer school on modern instruments, their science case, and practical data reduction” |
| 2014–2014 | Undergraduate lecturer in Física 1 (Physics 1) at the Universidad de Atacama, Copiapó, Chile |
| 2010 | Jodrell Bank Centre for Astrophysics Introductory Classes for Graduate Students lecture on Stellar Astrophysics (constituting one part of a six part lecture course for all graduate students). |
| 2009–2010 | University of Manchester 3rd and 4th year undergraduate astrophysics laboratory experiments demonstrator - including night observing with a 10” Schmidt-Cassegrain optical telescope. |
| 2008–2009 | Demonstrator and marker for University-accredited Jodrell Bank Observatory distance learning course, involving supervising the use of one of the research radio telescopes. |
| 2007–2008 | Demonstrator in 2nd year undergraduate physics laboratory, University of Manchester |

STUDENTS

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| Paulina Sowicka | 2015–present: ING student project supervisor. Project entitled “The search for, and characterisation of, binary central stars in planetary nebulae”, forming part of PhD thesis carried out at NCAC, Warsaw, Poland. |
| Amy Tyndall | 2011–2014: PhD project co-supervisor, thesis entitled “A Study of Planetary Nebulae Possessing Binary Central Stars”. Two peer-reviewed journal papers published. Successfully defended thesis March 3 rd 2014 |
| Martha Tabor | 2012–2012: ESO Internship project supervisor, project entitled “Accurate photometry of PN central stars by difference imaging”. Currently undertaking a PhD at the University of Nottingham. |
| Leo Huckvale | 2009–2010: MPhys project supervisor. Project investigating the kinematics of planetary nebula Abell 65, the results of which were presented at the Asymmetric Planetary Nebulae 5 conference and have been since published in MNRAS. |

RELEVANT EXPERIENCE

- Co-chair of the “Transient and Time Domain Astronomy: Robotic telescopes, surveys and the evolution of transient phenomena” session at the Royal Astronomical Society’s National Astronomy Meeting 2016, Nottingham.
- Co-chair of the “Deaths of Stars, Lives of Galaxies 2013” ESO workshop attended by more than 90 people.
- Referee for ApJ and ApJS since 2013 and MNRAS since 2014. Expert Reviewer (2012) for grant applications to the Polish National Science Centre (Narodowe Centrum Nauki).
- A wealth of personal observing experience at a variety of international facilities, including the ESO-VLT using UVES and FORS2, the ESO-NTT using EFOSC2, the SAAO 1m using the UCT-CCD and the 1.2m Mercator using MEROPE. Experience of several different observing techniques including high spectral-resolution spectroscopy, using both echelle and Fabry-Perot spectrometers, and high time-resolution photometry using frame transfer CCDs. Much of this data was acquired as part of projects/proposals on which I am or was the PI. See below for details.
- Experience in the reduction and analysis of both photometric and spectroscopic data, including (but not limited to) the extraction of aperture photometry, Lomb-Scargle periodicity analysis, reduction of both stellar and nebular spectroscopy (at a range of wavelengths and resolutions), cross-correlation of stellar spectra.

- Wide-ranging outreach experience. Experienced in conveying scientific concepts and astronomical research to the general public, including children, through a variety of means including talks, hands-on demonstrations and podcasts. Won STFC funded event “I’m a Scientist, Get Me Out of Here” Extreme Energy Zone, June 2014.
- Extensive experience using the STARLINK data reduction suite, also familiar with IRAF/PYRAF. Good working knowledge of PERL, PYTHON, BASH, FORTRAN, L^AT_EX and unix-based operating systems.
- Native English speaker, fluent in Spanish.

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

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| 2008–present | Royal Astronomical Society |
| 2012–present | International Astronomical Union |

REFEREED PUBLICATIONS

- **When Nature tries to trick us: An eclipsing eccentric close binary superposed on the central star of the planetary nebula M3-2**
Boffin, H.M.J.; Jones, D.; Wesson, R.; Beletsky, Y.; Miszalski, B.; Saviane, I.; Monaco, L.; Corradi, R.L.M.; Santander-García, M. & Rodríguez-Gil, P., 2016, A&A, submitted
- **Search for exoplanets around pulsating stars of A-F type in Kepler Short Cadence data and the case of KIC 8197761**
Sowicka, P.; Handler, G.; Bartłomiej, D.; Jones, D.; Van de Sande, M. & Pápics, P., 2016, MNRAS, submitted
- **On the possible triple central star system of PN SuWt 2: No ménage á trois at the heart of the Wedding Ring**
Jones, D. & Boffin, H.M.J., 2016, MNRAS, accepted
- **Confirming the Alignment of Planetary Nebulae and Their Close Binary Central Stars: The Low Inclination Binary Central Stars of NGC 6337 and Sp 1**
Hillwig, T.C.; Jones, D.; De Marco, O.; Bond, H.E.; Margheim, S. & Frew, D., 2016, ApJ, 832, 125
- **Imaging the elusive H-deficient gas in the high *adf* planetary nebula NGC 6778**
García-Rojas, J.; Corradi, R.L.M.; Monteiro, H.; Jones, D.; Rodríguez-Gil, P. & Cabrera-Lavers, A., 2016, ApJ Letters, 824, 27
- **Discovery of an eclipsing dwarf nova in the ancient nova shell Te 11**
Miszalski, B.; Woudt, P.A.; Littlefair, S.P.; Warner, B.; Boffin, H.M.J.; Corradi, R.L.M.; Jones, D.; Motsoaledi, M.; Rodríguez-Gil, P.; Sabin, L. & Santander-García, M., 2016, MNRAS, 456, 633
- **Modelling the spectral energy distribution of the red giant in RS Ophiuchi: evidence for irradiation**
Pavlenko, Ya.V.; Kaminsky, B.; Rushton, M.T.; Evans, A.; Woodward, C.E.; Helton, L.A.; O’Brien, T.J.; Jones, D. & Elkin, V., 2016, MNRAS, 456, 181
- **NGC 6778: Strengthening the link between extreme abundance discrepancy factors and central star binarity in planetary nebulae**
Jones, D.; Wesson, R.; Corradi, R.L.M.; Boffin, H.M.J. & García-Rojas, J., 2016, MNRAS, 455, 3263
- **Binary Central Stars of Planetary Nebulae Discovered Through Photometric Variability III: The Central Star of Abell 65**
Hillwig, T.C.; Frew, D.J.; Louie, M.; De Marco, O.; Bond, H.E.; Jones, D. & Schaub, S., 2015, AJ, 150, 30
- **The post-common envelope central stars of the planetary nebulae Henize 2-155 and Henize 2-161**
Jones, D.; Boffin, H.M.J.; Rodríguez-Gil, P.; Corradi, R.L.M.; Miszalski, B. & Mohamed, S., 2015, A&A, 580, 19

- **Binarity and the abundance discrepancy problem**
Corradi, R.L.M.; García-Rojas, J.; Jones, D. & Rodríguez-Gil, P., 2015, ApJ, 803, 99
- **Witnessing the Emergence of a Carbon Star**
Guzman-Ramirez, L.; Lagadec, E.; Zijlstra, A.A.; Wesson, R.; Müller, A.; Jones, D.; Boffin, H.M.J.; Sloan, G.C.; Redman, M.P.; Smette, A.; Karakas, A.I. & Nyman, L.-A., 2015, MNRAS Letters, 451, 1
- **The Chandra Planetary Nebula Survey (ChanPlaNS): III. X-ray Emission from the Central Stars of Planetary Nebulae**
Montez, R. Jr.; Kastner, J.H.; Balick, B.; Behar, E.; Blackman, E.; Bujarrabal, V.; Chu, Y.-H.; Corradi, R.L.M.; De Marco, O.; Frank, A.; Freeman, M.; Frew, D.J.; Guerrero, M.A.; Jones, D.; López, J.A.; Miszalski, B.; Nordhaus, J.; Parker, Q.A.; Sahai, R.; Sandin, C.; Schönberner, D.; Soker, N.; Sokoloski, J.; Steffen, M.; Toalá, J.A.; Ueta, T.; Villaver, E. & Zijlstra A., 2015, ApJ, 800, 8
- **The double-degenerate, super-Chandrasekhar nucleus of Hen 2-428**
Santander-García, M.; Rodríguez-Gil, P.; Corradi, R.L.M.; Jones, D.; Miszalski, B.; Boffin, H.M.J.; Rubio-Díez, M.M. & Kotze, M.M. 2015, Nature, 519, 63
- **The Chandra Planetary Nebula Survey (ChanPlaNS). II. X-ray Emission from Compact Planetary Nebulae**
Freeman, M.; Kastner, J.H.; Montez, R. Jr.; Balick, B.; Frew, D.J.; Jones, D.; Miszalski, B.; Sahai, R.; Blackman, E.; Chu, Y.-H.; De Marco, O.; Frank, A.; Guerrero, M.A.; López, J.A.; Zijlstra, A.A.; Bujarrabal, V.; Corradi, R.L.M.; Nordhaus, J.; Parker, Q.A.; Sandin, C.; Schönberner, D.; Soker, N.; Sokoloski, J.L.; Steffen, M.; Toalá, J.A.; Ueta, T. & Villaver, E., 2014, ApJ, 794, 99
- **The planetary nebula IPHASXJ211420.0+434136 (Ou5): insights into common-envelope dynamical and chemical evolution**
Corradi, R.L.M.; Rodríguez-Gil, P.; Jones, D.; García-Rojas, J.; Mampaso, A.; García-Alvarez, D.; Purísimo, T.; Eenmäe, T.; Liimets, T. & Miszalski, B., 2014, MNRAS, 441, 2799
- **PAH Formation in O-rich Planetary Nebulae**
Guzman-Ramirez, L.; Lagadec, E.; Jones, D.; Zijlstra, A.A. & Gesicki, K, 2014, MNRAS, 441, 364
- **The post-common-envelope, binary central star of planetary nebula Hen 2-11**
Jones, D.; Boffin, H.M.J.; Miszalski, B.; Wesson, R.; Corradi, R.L.M. & Tyndall, A.A., 2014, A&A, 562, 89
- **SALT reveals the barium central star of the planetary nebula Hen 2-39**
Miszalski, B.; Boffin, H.M.J.; Jones, D.; Karakas, A.; Köppen, J.; Tyndall, A.A.; Mohamed, S.; Rodríguez-Gil, P. & Santander-García, M., 2013, MNRAS, 436, 3068
- **Two rings but no fellowship: LoTr 1 and its relation to planetary nebulae possessing Barium central stars**
Tyndall, A.A.; Jones, D.; Boffin, H.M.J.; Miszalski, B.; Faedi, F.; Lloyd, M.; López, J.A.; Martell, S.; Pollacco, D. & Santander-García, M., 2013, MNRAS, 436, 2082
- **Spatio-kinematic modelling of Abell 65, a double-shelled planetary nebula with a binary central star**
Huckvale, L.; Prouse, B.; Jones, D.; Lloyd, M.; Pollacco, D.; López, J.A.; O'Brien, T.J.; Sabin, L. & Vaytet, N.M.H., 2013, MNRAS, 434, 1505
- **An interacting binary system powers precessing outflows of an evolved star**
Boffin, H.M.J.; Miszalski, B.; Rauch, T.; Jones, D.; Corradi, R.L.M.; Napiwotzki, R.; Day-Jones, A.C. & Köppen, J., 2012, Science, Vol. 338, Issue 6108, 773
- **The enigmatic central star of the planetary nebula PRTM 1**
Boffin, H.M.J.; Miszalski, B. & Jones, D., 2012, A&A, 545, 146
- **A study of the kinematics and binary-induced shaping of the planetary nebula HaTr 4**
Tyndall, A.A.; Jones, D.; Lloyd, M.; O'Brien, T.J. & Pollacco, D.L., 2012, MNRAS, 422, 1804

- **The morphology and kinematics of the Fine Ring Nebula, planetary nebula Sp 1, and the shaping influence of its binary central star**
Jones, D.; Mitchell, D.L.; Lloyd, M.; Pollacco, D.; O'Brien, T.J.; Meaburn, J. & Vaytet, N.M.H., 2012, MNRAS, 420, 2271
- **Discovery of Two Very Wide Binaries with Ultracool Companions and a New Brown Dwarf at the L/T Transition**
Mužić, K.; Radigan, J.; Jayawardhana, R.; Ivanov, V.D.; Faherty, J.K.; Kurtev, R.G.; Núñez, O.; Cruz, K.; Jones, D.; Tyndall, A.A. & Borissova, J., 2012, AJ, 144, 180
- **Discovery of close binary central stars in the planetary nebulae NGC 6326 and NGC 6778**
Miszalski, B.; Jones, D.; Rodríguez-Gil, P.; Boffin, H.M.J.; Corradi, R.L.M. & Santander-García, M., 2011, A&A, 513, 158
- **ETHOS 1: a high-latitude planetary nebula with jets forged by a post-common-envelope binary central star**
Miszalski, B.; Corradi, R.L.M.; Boffin, H.M.J.; Jones, D.; Sabin, L.; Santander-García, M.; Rodríguez-Gil, P. & Rubio-Díez, M.M., 2011, MNRAS, 413, 1264
- **The Necklace: equatorial and polar outflows from the binary central star of the new planetary nebula IPHASXJ194359.5+170901**
Corradi, R.L.M.; Sabin, L.; Miszalski, B.; Rodríguez-Gil, P.; Santander-García, M.; Jones, D.; Drew, J.; Mampaso, A.; Barlow, M.; Rubio-Díez, M.M.; Casares, J.; Viironen, K.; Frew, D.J.; Giammanco, C.; Greimel, R. & Sale, S., 2011, MNRAS, 410, 1349
- **Abell 41: shaping of a planetary nebula by a binary central star**
Jones, D.; Lloyd, M.; Santander-García, M.; López, J.A.; Meaburn, J.; Mitchell, D.L.; O'Brien, T.J.; Pollacco, D.L.; Rubio-Díez, M.M. & Vaytet, N.M.H., 2010, MNRAS, 408, 2312
- **The orbital period of V458 Vulpeculae, a post double common-envelope nova**
Rodríguez-Gil, P.; Santander-García, M.; Knigge, C.; Corradi, R.L.M.; Gänsicke, B.; Barlow, M.; Drew, J.; Miszalski, B.; Napiwotzki, R.; Steeghs, D.; Wesson, R.; Zijlstra, A.; Jones, D.; Liimets, T.; Pyrzas, S. & Rubio-Díez, M.M., 2010, MNRAS, 407, 21
- **Kinematics of the ring-like nebula SuWt 2**
Jones, D.; Lloyd, M.; Mitchell, D.L.; Pollacco, D.L.; O'Brien, T.J. & Vaytet, N.M.H., 2010, MNRAS, 401, 405
- **The kinematics of the quadrupolar nebula M 1-75 and the identification of its central star**
Santander-García, M.; Rodríguez-Gil, P.; Hernandez, O.; Corradi, R.L.M.; Jones, D.; Giammanco, C.; Beckman, J.E.; Carignan, C.; Fathi, K.; Rubio-Díez, M.M.; Jiménez-Luján, F. & Benn, C.R., 2010, A&A, 519, 54

NON-REFEREED PUBLICATIONS

- **Central Stars of Planetary Nebulae**
Jones, D., 2016, IAUS 323: Planetary nebulae: Multiwavelength probes of stellar and galactic evolution, Beijing, China
- **Close binary central stars and the abundance discrepancy - new extreme objects**
Wesson, R.; Jones, D.; García-Rojas, J.; Corradi, R.L.M. & Boffin, H.M.J., 2016, IAUS 323: Planetary nebulae: Multiwavelength probes of stellar and galactic evolution, Beijing, China
- **Imaging the elusive H-poor gas in planetary nebulae with large abundance discrepancy factors**
García-Rojas, J.; Corradi, R.L.M.; Boffin, H.M.J.; Monteiro, H.; Jones, D.; Wesson, R.; Cabrera-Lavers, A. & Rodríguez-Gil, P., 2016, IAUS 323: Planetary nebulae: Multiwavelength probes of stellar and galactic evolution, Beijing, China
- **The discovery and characterisation of binary central stars in planetary nebulae**
Jones, D., 2016, JPhCS, 728, 032014, Proceedings of the 11th Pacific Rim Conference on Stellar Astrophysics, Hong Kong

- **PAH Formation in O-rich Evolved Stars**
Guzman-Ramirez, L.; Lagadec, E.; **Jones, D.**; Zijlstra, A.A. & Gesicki, K., 2015, ASPC, 497, 155 - proceedings of “Why Galaxies Care about AGB Stars III: A Closer Look in Space and Time”, Vienna, Austria
- **Planetary Nebulae: What can they tell us about close binary evolution?**
Jones, D., 2015, EAS, 71, 113 - proceedings of “Physics of Evolved Stars 2015 - A conference dedicated to the memory of Olivier Chesneau”, Nice, France
- **Two rings but no fellowship: LoTr 1 and its relation to planetary nebulae possessing barium central stars**
Tyndall, A.A.; **Jones, D.**; Boffin, H.M.J., Miszalski, B.; Faedi, F.; Lloyd, M.; López, J.A.; Martell, S.; Pollacco, D. & Santander-García, M., 2014, Revista Mexicana de Astronomía y Astrofísica (Serie de conferencias), 44, 60 - proceedings of the XIV Latin American Regional IAU Meeting, Brazil
- **The Morpho-kinematics of Planetary Nebulae with Binary Central Stars**
Jones, D.; Santander-García, M.; Boffin, H.M.J.; Miszalski, B. & Corradi, R.L.M., 2014, Asymmetric Planetary Nebulae 6, Mexico
- **The Morpho-kinematics of Planetary Nebulae with Binary Central Stars**
Santander-García, M. & **Jones, D.**, 2014, Asymmetric Planetary Nebulae 6, Mexico
- **Report on the ESO Workshop “The Deaths of Stars and the Lives of Galaxies”**
Boffin, H.M.J.; **Jones, D.** & Wesson, R., 2013, The ESO Messenger, 152, 38
- **POPIPlaN: A Deep Morphological Catalogue of Newly Discovered Southern Planetary Nebulae**
Boffin, H.M.J.; **Jones, D.**; Beletsky, Y.; van den Ancker, M.; Smoker, J.; Gadotti, D.; Saviane, I.; Moehler, S.; Ivanov, V.D.; Schmidtobreick, L. & UT1 Team, 2013, The ESO Messenger, 148, 25
- **The influence of binarity on the morpho-kinematics of planetary nebulae**
Jones, D.; Tyndall, A.A.; Lloyd, M. & Santander-García, M., 2012, IAUS 283: Planetary Nebulae: An Eye to the Future, Spain
- **The kinematics and binary-induced shaping of PN HaTr 4**
Tyndall, A.A.; **Jones, D.** & Lloyd, M., 2012, IAUS 283: Planetary Nebulae: An Eye to the Future, Spain
- **Spatio-kinematic modelling: Testing the link between planetary nebulae and close binaries**
Jones, D.; Tyndall, A.A.; Huckvale, L.; Prouse, B. & Lloyd, M., 2011, Evolution of Compact Binaries, Chile
- **Abell 41: nebular shaping by a binary central star?**
Jones, D.; Lloyd, M.; Santander-García, M.; López, J.A.; Meaburn, J.; Mitchell, D.L.; O’Brien, T.J.; Pollacco, D.L.; Rubio-Díez, M.M. & Vaytet, N.M.H., 2012/2014, Asymmetric Planetary Nebulae 5, UK
- **Prediction of close binarity based on nebula morphology**
Miszalski, B.; Corradi, R.L.M.; **Jones, D.**; Santander-García, M.; Rodríguez-Gil, P. & Rubio-Díez, M.M., 2014, Asymmetric Planetary Nebulae 5, UK
- **The binary central stars of PNe with the shortest orbital period**
Santander-García, M.; Rodríguez-Gil, P.; Corradi, R.L.M.; Miszalski, B.; **Jones, D.** & Rubio-Díez, M.M., 2014, Asymmetric Planetary Nebulae 5, UK
- **The Necklace planetary nebula: equatorial and polar outflows from a post-common-envelope system**
Corradi, R.L.M.; Sabin, L.; Miszalski, B.; Rodríguez-Gil, P.; Santander-García, M.; **Jones, D.**; Drew, J.; Mampaso, A.; Barlow, M.; Rubio-Díez, M.M.; Casares, J.; Viironen, K.; Frew, D.J.; Giammanco, C.; Greimel, R. & Sale, S., 2014, Asymmetric Planetary Nebulae 5, UK

- **Using SuperWASP to find binary PN central stars**
Jones, D.; Pollacco, D.; Faedi, F. & Lloyd, M., 2014, Asymmetric Planetary Nebulae 5, UK
- **Spatio-kinematical modelling of Abell 65, a double-shelled PN with a binary central star**
Huckvale, L.; Prouse, B.; Jones, D.; Lloyd, M. & Pollacco, D., 2014, Asymmetric Planetary Nebulae 5, UK
- **HaTr 4 - A Kinematical Study**
Tyndall, A.; Jones, D.; Lloyd, M.; O'Brien, T.J.; Pollacco, D.; & Mitchell, D.L., 2014, Asymmetric Planetary Nebulae 5, UK
- **Understanding the Etched Hourglass Nebula**
Lloyd, M.; Matsuura, M.; Redman, M. & Jones, D., 2014, Asymmetric Planetary Nebulae 5, UK

TALKS & SEMINARS

- ***INVITED talk: The Importance of Binaries in the Formation and Shaping of Planetary Nebulae***
ESO Workshop: The Impact of Binaries on Stellar Evolution (ImBaSE 2017) Garching, Germany - July 3-7th 2017
- ***INVITED talk: Central Stars of PNe***
IAU Symposium 323 - Planetary nebulae: Multi-wavelength probes of stellar and galactic evolution, Beijing, China - October 10-14th 2016
- ***Cosmic butterflies: the product of tempestuous stellar marriages***
Universidad de Valparaiso Instituto de Física y Astronomía Seminar, Valparaiso, Chile - July 12th 2016
- ***Post-common-envelope binary stars in Planetary Nebulae: Supernova Ia progenitors?***
RAS National Astronomy Meeting, 2016, Nottingham, UK - June 30th 2016
- ***Close binary central stars of planetary nebulae***
Día de Nuestra Ciencia 2016, IAC - May 24th 2016
- ***INVITED talk: UV & Optical Observatories***
WorkPLaNS: WORKshop for PLANetary Nebulae observationS, Lorentz Center, Netherlands - January 25-29th 2016
- ***The discovery of a supernova type Ia progenitor at the heart of a planetary nebula***
Seminar, ESO Vitacura, Chile - January 11th 2016
- ***The discovery and characterisation of binary central stars in planetary nebulae***
11th Pacific Rim Conference on Stellar Astrophysics, Hong Kong - December 15th 2015
- ***Cosmic butterflies: the product of tempestuous stellar marriages***
Seminar - Isaac Newton Group of Telescopes, Spain - November 16th 2015
- ***INVITED talk: The La Palma facilities***
Awareness 2015 - An ESO/OPTICON/IAU summer school on modern instruments, their science case, and practical data reduction, Brno, Czech Republic - September 4th 2015
- ***Planetary nebulae: What can they tell us about binary evolution?***
The Physics of Evolved Stars 2015, Nice, France - June 9th 2015
- ***The Morpho-kinematics of Planetary Nebulae with Binary Central Stars***
Asymmetric Planetary Nebulae 6, Mexico - November 5th 2013
- ***Post-common envelope planetary nebulae***
University of Warwick, UK - August 27th 2013

- **The formation of jets in planetary nebulae: pre-CE mass transfer**
Symbiotic stars, binary post-AGB stars and related objects, Wierzba, Poland - August 22nd 2013
- **Probing close-binary evolution using the morpho-kinematics of planetary nebulae**
Deaths of Stars & Lives of Galaxies, Santiago, Chile - April 8th 2013
- **Aspherical Planetary Nebulae: Binaries Blowing Bubbles**
SOCHIAS (Chilean National Astronomy Meeting), 2012, Viña del Mar, Chile - October 12th 2012
- **Aspherical Planetary Nebulae: Binaries Blowing Bubbles**
National Astronomy Meeting, 2012, Manchester, UK - March 30th 2012
- **The binary central star of planetary nebula Sp 1**
Variability at different evolutionary stages of binary stars, 2012, Santiago, Chile - January 25th 2012
- **Examining the influence of central star binarity on the morphologies of PNe**
Physical and chemical aspects of the late stages of stellar evolution, 2011, Warsaw, Poland - August 30th 2011
- **CSI:PN (CircumStellar Investigation: Planetary Nebula)**
ESO Colloquium - ESO Vitacura, Chile - March 16th 2011
- **Spatio-kinematic modelling: Testing the link between planetary nebulae and close binary stars**
Evolution of Compact Binaries, 2011, Viña del Mar, Chile - March 8th 2011
- **Abell 41: Nebular shaping by a binary central star**
Asymmetric Planetary Nebulae 5, Lake District, UK - June 24th 2010
- **Abell 41: Nebular shaping by a binary central star**
Internal Seminar, Jodrell Bank Centre for Astrophysics, UK - February 3rd 2010
- **Abell 41: Nebular shaping by a binary central star**
Seminar - Isaac Newton Group of Telescopes, Spain - January 13th 2010
- **Planetary nebula SuWt 2 and its mysterious central stars**
Internal Seminar - Jodrell Bank Centre for Astrophysics, UK - May 6th 2009
- **Planetary nebula SuWt 2 and its mysterious central stars**
Seminar - Isaac Newton Group of Telescopes, Spain - April 13th 2009

PUBLIC TALKS, PODCASTS & OUTREACH EVENTS

- **Winner “I’m a Scientist, Get Me Out of Here”**
Extreme Energy Zone - June 2014
- **Speech at Inauguration of SunEdison 100MW Solar Plant**
nr. Copiapó, Chile - June 4th 2014
- **Mariposas cósmicas y la muerte del Sol**
Sociedad Astronómica Orion, Copiapó, Chile - May 27th 2014
- **TV news interview about lunar eclipse**
TVN 24 Horas, Región Atacama - April 15th 2014
- **Astronomer’s question time**
Stephenson Memorial primary school STEM Fair, Wallsend, UK - March 22nd 2013
- **Interview on Science press release**
SciFri Español podcast - February 2013
- **Interview on planetary nebulae**
Jodcast podcast - December 2012

- **Live interview about Paranal in front of 12 000 festival goers**
Jodrell Bank Live musical festival, Manchester, UK - June 25th 2012
- **Interview on VLT operations**
Jodcast podcast - June 2012
- **Stars: Growing old disgracefully**
Bright Club Manchester 12: Space, Manchester, UK - March 27th 2012
- **Telescopes in Paradise: La Palma**
BBC Stargazing day, Museum of Science and Industry, Manchester UK - January 15th 2011
- **Roque de Los Muchachos**
Instituto Alonso Pérez Díaz, Santa Cruz de La Palma, Spain - May 22nd 2009

AWARDED OBSERVING TIME

| Year of Award | PI/Co-I | Telescope/Instrument | Time | Proposal ID | Type |
|---------------|---------|----------------------|--------|--------------|--------------|
| 2016 | PI | GTC-OSIRIS | 10hr | 5-GTC3/16B | Service time |
| 2016 | PI | GTC-OSIRIS | 2hr | 1-GTC1/16B | Service time |
| 2016 | PI | WHT-ISIS | 2n | 2-WHT1/16B | Visitor time |
| 2016 | Co-I | INT-WFC | 5n | 109-INT6/16B | Visitor time |
| 2016 | PI | WHT-ISIS | 4hr | SW2015b21 | Service time |
| 2016 | PI | NTT-EFOSC2 | 7n | 097.D-0351 | Visitor time |
| 2016 | Co-I | VLT-MUSE | 1.2n | 097.D-0241 | Visitor time |
| 2016 | Co-I | VLT-FLAMES | 0.6n | 097.D-0241 | Visitor time |
| 2016 | PI | INT-WFC | 3n | 13-INT1/16A | Visitor time |
| 2015 | PI | WHT-ACAM | 1hr | SW2015b06 | Service time |
| 2015 | PI | LCOGT 2m network | 80hr | 2015B-105 | Service time |
| 2015 | PI | LCOGT 1m network | 120hr | 2015B-105 | Service time |
| 2015 | PI | WHT-ACAM/LIRIS | 4hr | DDT-66 | Visitor time |
| 2015 | PI | VLT-FORS2 | 7hr | 096.D-0080 | Service time |
| 2015 | PI | VLT-FORS2 | 4n | 096.D-0237 | Visitor time |
| 2015 | PI | NTT-EFOSC2 | 5n | 096.D-0234 | Visitor time |
| 2015 | PI | INT-WFC | 5n | 32-INT5/15B | Visitor time |
| 2015 | PI | INT-WFC | 9n | 43-INT6/15B | Visitor time |
| 2015 | PI | WHT-ISIS | 1n | 41-WHT7/15B | Visitor time |
| 2015 | PI | WHT-ACAM | 2n | 47-WHT8/15B | Visitor time |
| 2015 | PI | GTC-OSIRIS | 1.5hr | 99-GTC50/15B | Service time |
| 2015 | Co-I | GTC-OSIRIS | 14.5hr | 57-GTC30/15B | Service time |
| 2015 | Co-I | WHT-LIRIS | 1.3hr | SW2015a10 | Service time |
| 2015 | PI | LCOGT 2m network | 3hr | 2015A-69 | Service time |
| 2015 | PI | LCOGT 1m network | 20hr | 2015A-69 | Service time |
| 2015 | PI | IAC80-CAMELOT | 10n | - | Visitor time |
| 2014 | Co-I | GTC-OSIRIS | 1hr | DDT | Service time |
| 2014 | Co-I | MPG/ESO-2.2m-WFI | 3hr | 094.A-9028 | Service time |
| 2014 | PI | Gemini South-GMOS | 2.3hr | CL-2014B-007 | Service time |
| 2014 | PI | NTT-EFOSC2 | 5n | 094.D-0091 | Visitor time |
| 2014 | Co-I | APEX-SHFI | 52hr | 094.D-0089 | Service time |
| 2014 | PI | VLT-VIMOS | 10hr | 094.D-0082 | Service time |
| 2014 | PI | VLT-UVES | 6hr | 593.D-0037 | Service time |
| 2014 | PI | VLT-FORS2 | 1hr | 293.D-5013 | DDT time |
| 2013 | PI | VLT-FORS2 | 26hr | 093.D-0038 | Service time |
| 2013 | PI | VLT-UVES | 12hr | 593.D-0037 | Service time |
| 2013 | Co-I | VLT-UVES | 31.2hr | 093.D-0290 | Service time |
| 2013 | Co-I | VLT-UVES | 9hr | 093.D-0332 | Service time |
| 2013 | Co-I | VLT-CRIRES | 25hr | 093.C-0480 | Service time |
| 2013 | Co-I | GTC-OSIRIS | 5hr | 98-GTC41/13A | Service time |
| 2013 | Co-I | SOFIA | 3.7hr | 02-0085 | Service time |
| 2013 | Co-I | NTT-EFOSC2 | 4n | 092.D-0449 | Visitor time |

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| Year of Award | PI/Co-I | Telescope/Instrument | Time | Proposal ID | Type |
|---------------|---------|----------------------|--------|-------------------|--------------|
| 2012 | PI | AAT-UCLES | 2hr | UC200 | Service time |
| 2012 | Co-I | VLT-CRIRES | 50hr | 091.C-0655 | Service time |
| 2012 | Co-I | VLT-FLAMES | 0.6hr | 091.D-0673 | Service time |
| 2012 | Co-I | VLT-FORS2 | 11.7hr | 091.D-0673 | Service time |
| 2012 | Co-I | VLT-XSHOOTER | 2.4hr | 091.D-0717 | Service time |
| 2012 | Co-I | VLT-UVES | 0.7n | 091.D-0208 | Visitor time |
| 2012 | Co-I | NTT-EFOSC2 | 5n | 091.D-0475 | Visitor time |
| 2012 | Co-I | AAT-UCLES | 2n | 2012B/035 | Visitor time |
| 2012 | Co-I | VLT-FORS2 | 8hr | 090.D-0435 | Service time |
| 2012 | Co-I | VLT-FORS2 | 66hr | 090.D-0449 | Service time |
| 2012 | Co-I | NTT-EFOSC2 | 5n | 090.D-0693 | Service time |
| 2011 | Co-I | VLT-FORS2 | 66hr | 089.D-0357 | Service time |
| 2011 | Co-I | VLT-VISIR | 11hr | 089.D-0564 | Service time |
| 2011 | Co-I | VLT-FORS2 | 2n | 089.D-0453 | Visitor time |
| 2011 | Co-I | VLT-FORS2 | 8hr | 088.D-0750 | Service time |
| 2011 | Co-I | VLT-FORS2 | 1n | 088.D-0750 | Service time |
| 2011 | Co-I | NTT-EFOSC2 | 5n | 088.D-0573 | Visitor time |
| 2011 | P-I | SAAO1.9-m SAAO CCD | 7n | 2011.2.31 | Visitor time |
| 2010 | Co-I | Mercator-MEROPE | 15n | 104-Mercator7/10B | Visitor time |
| 2010 | PI | VLT-UVES | 2n | 087.D-0174 | Visitor time |
| 2010 | Co-I | MES-SPM2.1-m | 3n | 012345-6-789 | Visitor time |
| 2010 | Co-I | Mercator-MEROPE | 15n | 113-Mercator3/10A | Visitor time |
| 2010 | PI | SAAO1.9-m SAAO CCD | 7n | 2010.3.010 | Visitor time |
| 2010 | PI | SAAO1.9-m SAAO CCD | 7n | 2010.2.018 | Visitor time |
| 2009 | PI | SAAO1.9-m SAAO CCD | 7n | 2010.1.019 | Visitor time |
| 2009 | Co-I | WHT-GH α FaS | 2n | 108-WHT36/09B | Visitor time |
| 2009 | Co-I | Mercator-MEROPE | 15n | 6-Mercator1/09B | Visitor time |
| 2009 | PI | WHT-ACAM | 1.5hr | SW2009a30 | Service time |
| 2009 | PI | NOT-ALFOSC | 1.4hr | - | Service time |
| 2007 | Co-I | VLT-UVES | 2n | 081.D-0857 | Visitor time |