

# CURRICULUM VITAE

## DAVID JONES

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### 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  
• 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**  
Gran Telescopio Canarias  
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Calle Cuesta de San José  
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## TEACHING EXPERIENCE

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

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## STUDENTS

Paulina Sowicka	2015–present: ING student project supervisor. Project entitled “A zoo of variable planetary nebula central stars”, forming part of PhD thesis carried out at CAMK, 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 <sup>rd</sup> 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.

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## 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<sup>A</sup>T<sub>E</sub>X and unix-based operating systems.
- Native English speaker, fluent in Spanish.

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## MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

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

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## REFEREED PUBLICATIONS

- **BOOK CHAPTER: The importance of binarity in the formation and evolution of planetary nebulae**  
Jones, D., 2018, in *The Importance of Binarity in Stellar Evolution*, eds. Boffin, H. M. J. and Beccari, G., Cambridge University Press
- **New insights into the outflows from R Aquarii**  
Liimets, T.; Corradi, R.L.M.; Jones, D.; Verro, K.; Santander-García, M.; Kolka, I; Kankare, E.; Kankare, J.; Pursimo, T. & Wilson, P.A., 2017, *A&A*, submitted
- **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., 2017, *A&A*, submitted
- **Opening PANDORA’s box: APEX observations of CO in planetary nebulae**  
Guzman-Ramirez, L.; Boffin, H.M.J.; Jones, D.; Wesson, R.; Zijlstra, A.A.; Smith, C.L. & Boffin, H.M.J., 2017, *A&A*, submitted
- **250 one-opposition near Earth asteroids recovered by the EURONEAR with the Isaac Newton Telescope**  
Vaduvescu, O.; Hudin, L.; Mocnik, T.; Char, F.; Sonka, A.; Tudor, V.; Ordonez-Etxeberria, I.; Díaz Alfaro, M.; Ashley, R.; Errmann, R.; Short, P.; Moloceniuc, A.; Cornea, R.; Inceu, V.; Zavoianu, D.; Popescu, M.; Curelaru, L.; Mihalea, S.; Stoian, A.-M.; Boldea, A.; Toma, R.; Fields, L.; Grigore, V.; Stoev, H.; Lopez-Martinez, F.; Humphries, N.; Sowicka, P.; Ramanjooloo, Y.; Manilla-Robles, A.; Riddick, F.C.; Jimenez-Lujan, F.; Mendez, J.; Aceituno, F.; Sota, A.; Jones, D.; Hidalgo, S.; Murabito, S.; Oteo, I.; Bongiovanni, A.; Zamora, O.; Pyrzias, S.; Tanausu, R.; Font, J.; Bereciartua, A.; Perez-Fournon, I.; Martínez-Vázquez, C.E.; Monelli, M.; Cicuendez, L.; Monteagudo, L.; Agulli, I.; Buoy, H.; Huélamo, N.; Monguió, M.; Gänsicke, B.T.; Steeghs, D.; Gentile-Fusillo, N.P.; Hollands, M.A.; Toloza, O.; Manser, C.J.; Dhillon, V.; Sahman, D.; Fitzsimmons, A.; McNeill, A.; Thompson, A.; Tabor, M.; Murphy, D.N.A.; Davies, J.; Snodgrass, C.; Triaud, A.H.M.J.; Groot, P.J.; Macfarlane, S.; Peletier, R.; Sen, S.; Ikiz, T.; Hoekstra, H.; Herbonnet, R.; Köhlinger, F.; Greimel, R.; Afonso, A.; Parker, Q.A. & Kong, A.K.H., 2017, *A&A*, accepted
- **A detailed study of the planetary nebula IC 4776 and its post-common-envelope binary central star**  
Sowicka, P.; Jones, D.; Corradi, R.L.M.; Wesson, R.; García-Rojas, J.; Santander-García, M.; Boffin, H.M.J. & Rodríguez-Gil, P., 2017, *MNRAS*, 471, 3, 3529
- **A hybrid type Ia supernova with an early flash triggered by helium-shell detonation**  
Jiang, J.; Doi, M.; Maeda, K.; Shigeyama, T.; Nomoto, K.; Yasuda, N.; Jha, S.W.; Tanaka, M.; Morokuma, T.; Tominaga, N.; Ivezić, Z.; Ruiz-Lapuente, P.; Stritzinger, M.D.; Mazzali, P.A.; Ashall, C.; Mould, J.; Baade, D.; Suzuki, N.; Connolly, A.J.; Patat, F.; Wang, L.; Yoachim, P.; Jones, D.; Furusawa, H. & Miyazaki, S., 2017, *Nature*, 550, 80

- **REVIEW: Binary stars as the key to understanding Planetary Nebulae**  
Jones, D. & Boffin, H.M.J., 2017, *Nature Astronomy*, 1, 0117
- **The long-period binary central stars of the planetary nebulae NGC 1514 and LoTr 5**  
Jones, D.; Van Winckel, H.; Aller, A.; Exter, K. & De Marco, O., 2017, *A&A*, 600, L9
- **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., 2017, *MNRAS*, 467, 4663
- **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., 2017, *MNRAS*, 466, 2034
- **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.; Purisimo, 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**  
Muzić, 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

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#### NON-REFEREED PUBLICATIONS

- **The Eclipsing Central Stars of the Planetary Nebulae Lo 16 and PHR J1040-5417**  
Hillwig, T.C.; Frew, D.; **Jones, D.** & Crispo, D., 2017, AAS meeting
- **Binarity in the Central Stars of Planetary Nebulae and its Relationship to Stellar Evolution: An Observational Perspective**  
Hillwig, T.C.; Jacoby, G.H.; **Jones, D.** & De Marco, O., 2016, 20th European White Dwarf Workshop, Warwick, UK
- **Investigating spatial variation of the physical and chemical conditions of NGC 6778**  
Monteiro, H.; García-Rojas, J.; **Jones, D.**; Corradi, R.L.M & Rodríguez-Gil, P., 2016, Chemical abundances in ionized nebulae, Campos do Jordao, Brazil
- **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

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## 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
- **Cosmic butterflies: the product of tempestuous stellar marriages**  
Nicolaus Copernicus Astronomical Center, Warsaw, Poland - March 29th 2017
- **Binary Central Stars of Planetary Nebulae**  
Institut Voor Sterrenkunde Seminar, Katholieke Universiteit Leuven, Leuven, Belgium - February 10th 2017
- **Binary Central Stars of Planetary Nebulae**  
Leiden Observatory Seminar, Universiteit Leiden, Leiden, Netherlands - February 6th 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

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#### 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

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AWARDED OBSERVING TIME

Year of Award	PI/Co-I	Telescope/Instrument	Time	Proposal ID	Type
2017	PI	GTC-OSIRIS	4hr	50-GTC25/17A	Service time
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

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Year of Award	PI/Co-I	Telescope/Instrument	Time	Proposal ID	Type
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
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 $\alpha$ 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