

# CURRICULUM VITAE

## DAVID JONES

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### CAREER AND PUBLICATION SUMMARY

David Jones is a postdoctoral researcher based at the Instituto de Astrofísica de Canarias on the Spanish island of La Palma. He has also worked at the European Southern Observatory's Paranal Observatory in Chile, the Universidad de Atacama, the Isaac Newton Group of Telescopes, and the Jodrell Bank Centre for Astrophysics. To date, he is the author of 48 refereed papers in leading scientific journals, including both *Science* and *Nature*. He is the first author of 10 of these papers, and in the first three authors of a further 19. Additionally, he is the author of more than 30 non-refereed publications, ranging from book chapters and conference papers to articles for the *ESO Messenger*. In total, his papers have garnered more than 1050 citations, resulting in a Hirsch index of 21 and a Research Impact Quotient (riq) of 150.

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### CONTACT INFORMATION

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### ACADEMIC EXPERIENCE

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| 2015–present | <b>Postdoctoral Researcher</b> - Instituto de Astrofísica de Canarias, Spain <ul style="list-style-type: none"><li>• 3-year fellowship “Generic postdoc”</li></ul>  |
| 2014–2015    | <b>Postdoctoral Researcher</b> - Instituto de Astrofísica de Canarias, Spain <ul style="list-style-type: none"><li>• MINECO project “The Formation of Planetary Nebulae: The Binary Hypothesis” (P.I.: Dr. R.L.M. Corradi)</li></ul>  |
| 2014–2014    | <b>ESO Fellow hosted at Universidad de Atacama</b> - Universidad de Atacama, Chile <ul style="list-style-type: none"><li>• Final year of ESO fellowship hosted at local university.</li><li>• Lecturer in Física 1 (Physics 1)</li></ul>  |
| 2011–2014    | <b>ESO FORS2 Fellow</b> - European Southern Observatory, Santiago de Chile <ul style="list-style-type: none"><li>• Night astronomer for UT1 and UT2</li><li>• Night-shift coordinator</li><li>• Fellows’ Representative (2012–2013)</li><li>• Evolved Stars Research Group coordinator (2013–2014)</li><li>• Colloquium organiser (2012–2013)</li></ul> |
| 2007–2011    | <b>PhD astrophysics</b> - Jodrell Bank Centre for Astrophysics, University of Manchester, UK <ul style="list-style-type: none"><li>• Thesis entitled: “The Influence of Central Star Binarity on the Morphologies of Planetary Nebulae”</li><li>• Supervisors: Dr. M. Lloyd and Dr. T.J. O’Brien</li></ul>  |
| 2008–2009    | <b>INT support astronomer</b> - Isaac Newton Group of Telescopes, Spain <ul style="list-style-type: none"><li>• Night-time support of 2.5-m Isaac Newton Telescope operations</li><li>• Independent scientific research as part of above PhD programme</li></ul>  |
| 2003–2007    | <b>First class MPhys(Hons) Physics with Astrophysics</b> - University of Manchester <ul style="list-style-type: none"><li>• Awarded McDougall (Sir Robert) Scholarship - Feb 2004</li></ul>   |

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## TEACHING EXPERIENCE

2018	Lecturer/tutor at “Physics of Eclipsing Binaries Workshop” - June 18-22 2018 in Villanova, USA
2015	Lecturer/tutor at “Awareness 2015 - An ESO/OPTICON/IAU summer school on modern instruments, their science case, and practical data reduction” - Sept. 1–11 2015 in Brno, Czech Republic
2014–2014	Undergraduate lecturer in Física 1 (Physics 1) at the Universidad de Atacama, Copiapó, Chile
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

Alex Brown	2017–2018: ING student project supervisor. Project entitled “A detailed study of barium stars in planetary nebulae”, forming part of undergraduate masters programme at University of Sheffield, UK. One peer-reviewed paper published.
Paulina Sowicka	2015–present: PhD project co-supervisor (home institution CAMK, Warsaw, Poland) “A zoo of variable planetary nebula central stars”. Defence due September 2019. Three peer-reviewed journal papers published.
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 published in MNRAS.

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## REFERENCES

These persons are familiar with my professional qualifications and my character:

**Dr. Romano Corradi**  
Gran Telescopio de Canarias  
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## RELEVANT EXPERIENCE

- Three years spent as an ESO fellow with duties at the Paranal observatory. This included responsibilities as both day astronomer (executing calibrations, performing quality control checks and interfacing with the day time engineering team with duties related to all four 8m Unit Telescopes as well as two survey telescopes and the VLT Interferometer), and as night astronomer (executing observations and supporting visiting astronomer on both Unit Telescope 1 and Unit Telescope 2). Furthermore, I was Night Shift Coordinator on several occasions, meaning I was responsible for the night time operation of all four Unit Telescopes and two survey telescopes under the “SciOps 2.0” scheme, whereby each night astronomer would work a hybrid day-night shift, leaving the final hours of each night to the Telescope Operator and the Night Shift Coordinator.
- A wealth of personal observing experience at a variety of highly competitive international facilities, as well as associated data reduction and analysis. Experienced with, for example, high spectral-resolution spectroscopy (using both echelle and Fabry-Perot spectrometers), 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. Primary tools employed being astropy and its affiliated packages, and the STARLINK data reduction suite, but also familiar with IRAF/PYRAF. Good working knowledge of PYTHON, PERL, BASH, FORTRAN, L<sup>A</sup>T<sub>E</sub>X and unix-based operating systems.
- Co-chair of the “Deaths of Stars, Lives of Galaxies 2013” ESO workshop attended by more than 90 people. 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. Invited speaker at multiple international conferences including International Astronomical Union Symposium 323: “Planetary Nebulae: Multi-Wavelength Probes of Stellar and Galactic Evolution”. Elected to the organising committee of IAU commission H3: Planetary Nebulae in 2018.
- Referee for ApJ and ApJS since 2013, MNRAS since 2014, and Nature Astronomy and Galaxies since 2018. Expert Reviewer (2012) for grant applications to the Polish National Science Centre (Narodowe Centrum Nauki).
- Multiple invited stays at international research centres, most recently Nicolaus Copernicus Astronomical Centre (Warsaw, Poland) and Katholieke Universiteit Leuven (Belgium).
- Principal Investigator for the Instituto de Astrofísica de Canarias (IAC) in the ERASMUS+ Strategic Partnership “Per Aspera Ad Astra Simul” awarded 288 000€ to promote the exchange of staff and students between the IAC and partner institutes as well as the organisation of multiple international summer schools. This pioneering project will also see the first GTC studentships, with PhD students offered the possibility to spend several months in training at the GTC, learning the day-to-day operational duties undertaken by GTC staff.
- Wide-ranging outreach experience. Experienced in conveying scientific concepts and astronomical research to the general public, including children. Numerous press releases, TV interviews, podcast interviews, talks to schools and amateur astronomical societies. Appeared via video link at Jodrell Bank Live music festival and performed stand-up comedy outreach at Bright Club Manchester in 2012. Won STFC funded event “I’m a Scientist, Get Me Out of Here” Extreme Energy Zone, June 2014.
- Native English speaker, fluent in Spanish.

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## MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

2008–present	Royal Astronomical Society
2012–present	International Astronomical Union
2018–present	IAU commission H3: Planetary Nebulae organising committee member
2018–present	Sociedad Española de Astronomía

- **Detection limits of exoplanetary atmospheres with 2-m class telescopes**  
Kabath, P.; Zak, J.; Boffin, H.M.J.; Ivanov, V.D.; Skarka, M. & Jones, D., 2019, AJ, submitted
- **Ondřejov echelle spectrograph, ground based support facility for exoplanet missions – first results for three K2 candidates**  
Kabath, P.; Skarka, M.; Sabotta, S.; Guenther, E.; Klocová, T.; Blažek, M.; Czismadia, S.; Dvořáková, J.; Dupkala, D.; Fuchs, J.; Hatzes, A.; **Jones, D.**; Novotný, R.; Řezba, L.; Sloup, J.; Škoda, P.; Šlechta, M. & Žák, J., 2019, AJ, submitted
- **Spectral analysis of the barium central star of the planetary nebula Hen 2-39**  
Löbbling, L.; Boffin, H.M.J. & **Jones, D.**, 2019, A&A, accepted
- **Bolometric Treatment of Irradiation Effects: General Discussion and Application to Binary Stars**  
Horvat, M.; Conroy, K.; **Jones, D.** & Prša, A., 2019, ApJS, 240, 36
- **On the post-common-envelope central star of the planetary nebula NGC 2346**  
Brown, A.J., **Jones, D.**; Boffin, H.M.J. & van Winckel, H, 2019, MNRAS, 482, 4951
- **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., 2018, A&A, 619, 84
- **The short orbital period binary star at the heart of the planetary nebula M 3-1**  
**Jones, D.**; Boffin, H.M.J.; Sowicka, P.; Miszalski, B.; Rodríguez-Gil, P.; Santander-García, M. & Corradi, R.L.M., 2019, MNRAS Letters, 482, L75
- **Confirmation of the link between central star binarity and extreme abundance discrepancy factors in planetary nebulae**  
Wesson, R.; **Jones, D.**; García-Rojas, J.; Boffin, H.M.J. & Corradi, R.L.M., 2018, MNRAS, 480, 4859
- **Opening PANDORA's box: APEX observations of CO in Planetary Nebulae**  
Guzman-Ramirez, L.; Gómez-Ruiz, A.I.; Boffin, H.M.J.; **Jones, D.**; Wesson, R.; Zijlstra, A.A.; Smith, C.L. & Nyman, L.Å., 2018, A&A, 618, 91
- **On  $\epsilon$ -mechanism driven pulsations in VV 47**  
Sowicka, P.; Handler, G. & **Jones, D.**, 2018, MNRAS, 479, 2476
- **BOOK CHAPTER: The importance of binarity in the formation and evolution of planetary nebulae**  
**Jones, D.**, 2018, in The Impact of Binaries on 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., 2018, A&A, 612, 118
- **A new look inside LoTr5: A long-period binary with hints of a possible third guest**  
Aller, A.; Lillo-Box, J.; Vučković, M.; Van Winckel, H.; **Jones, D.**; Montesinos, B.; Zorotovic, M. & Miranda, L.F., 2018, MNRAS, 476, 1140
- **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.; Pyrzas, S.; Tanausu, R.; Font, J.; Bereciartua, A.; Perez-Fournon, I.; Martínez-Vázquez, C.E.; Monelli, M.; Cicuendez, L.; Monteagudo, L.; Agulli, I.; Buoy, H.; Huélamó, 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., 2018, *A&A*, 609, 105

- **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, 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.; Ruíz-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 à 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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#### INVITED TALKS/SEMINARS

- **Model atmospheres, limb-darkening and irradiation**  
Physics of Eclipsing Binaries Workshop, Villanova, USA - June 18-22 2018
- **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
- **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
- **UV & Optical Observatories**  
WorkPLaNS: WORKshop for PLAnetary Nebulae observationS, Lorentz Center, Netherlands - January 25-29th 2016
- **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 - August 31-September 11 2015

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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
2019	PI	GTC-OSIRIS	3hr	GTC2019-110	DDT time
2019	PI	GTC-OSIRIS	4hr	84-GTC58/19A	Service time
2019	PI	VLT-FLAMES	6hr	103.D-0176	Service time

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Year of Award	PI/Co-I	Telescope/Instrument	Time	Proposal ID	Type
2019	PI	NTT-EFOSC2	5n	103.D-0186	Visitor time
2018	PI	GTC-OSIRIS	2hr	55-GTC41/18B	Service time
2018	PI	INT-WFC	5n	57-INT5/18B	Service time
2018	Co-I	GTC-MEGARA	9hr	60-GTC45/18B	Service time
2018	PI	GTC-OSIRIS	2hr	19-GTC11/18A	Service time
2018	Co-I	GTC-EMIR	12hr	91-GTC80/18A	Service time
2018	Co-I	GTC-OSIRIS	4.4hr	90-GTC79/18A	Service time
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
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

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<b>Year of Award</b>	<b>PI/Co-I</b>	<b>Telescope/Instrument</b>	<b>Time</b>	<b>Proposal ID</b>	<b>Type</b>
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