

CURRICULUM VITAE

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Lecturer in Astrophysics

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EDUCATION

University of Edinburgh – Ph.D. in Astrophysics

November 2011

Institute for Astronomy, School of Physics and Astronomy, Edinburgh, UK

Thesis: *The Star formation history of the Universe and its Drivers*

Supervisor: Prof. Philip Best

University of Lisbon – B.Sc. in Physics, Astronomy and Astrophysics

July 2007

Department of Physics, Faculty of Sciences, Lisbon, Portugal

PROFESSIONAL APPOINTMENTS

Reader in Astrophysics, University of Lancaster, UK

Aug 2018–

Lecturer in Astrophysics, University of Lancaster, UK

Jan 2016–Jul 2018

FCT/IF Starting Grant (**PI**); Assistant Researcher, FCUL (U. Lisbon), Portugal

Dec 2013– Jan 2016

VENI Fellow – Postdoctoral Researcher, Leiden Observatory, The Netherlands

Sep 2012– Sep 2016

NOVA Fellow – Postdoctoral Researcher, Leiden Observatory, The Netherlands

Sep 2011– Sep 2012

FCT Doctoral Fellow, Institute for Astronomy, University of Edinburgh, UK

Sep 2007– Sep 2011

PUBLICATION RECORD (see attached sheet for details)

Articles in refereed journals: **96**. As 1st (2nd) author: **18 (37)**, of which **5** 1st-author papers have > **100** citations each. Citations: > **3100**. Citations 1st author: **1203**. *h*-index: **33**, *i10*-index: **65**.

RESEARCH INTERESTS

Observational cosmology; galaxy formation and evolution; star-forming galaxies; H α emitters: dynamics, metallicities, clustering, morphologies, nature vs nurture, merging clusters; wide-field emission-line surveys; star formation history; Ly α emitters: properties, evolution; re-ionization.

SELECTED GRANTS, AWARDS & PRIZES

Observational Astrophysics PATT grant (STFC, **PI**)

2018-20

Observational Astrophysics PATT grant (STFC, **PI**)

2016-18

Severo Ochoa invited visitor to the Instituto de Astrofísica de Canarias (IAC)

2017

Lancaster University Early Career Internal Grant (**PI**, GBP 4,900)

2016

FCT Investigator start-up grant (**PI**, EUR 50,000)

2013-16

FCT Investigator 5-year Starting Grant (**PI**, Top 5% of > 1000 candidates, maximum grade)

2013-16

NWO Veni Grant/Fellowship (**PI**, EUR 250,000)

2012-16

RAS Michael Penston for the best doctoral thesis in Astronomy or Astrophysics: runner-up

2012

Cormack Postgraduate Prize for the best paper in Scotland (Royal Society of Edinburgh)

2012

NOVA Postdoctoral Fellowship (**PI**, EUR 70,000p.a., Leiden University)

2011-14

SET for BRITAIN Awards Finalist (UK Parliament, Westminster)

2011

FCT Ph.D Fellowship (Ph.D, EUR 30,000p.a., Fundação para a Ciência e a Tecnologia)

2007-11

OBSERVING EXPERIENCE

Over **150 nights** of observing experience on Mauna Kea, La Silla and La Palma; 28 observing runs on UKIRT, Subaru, Keck, NTT, INT, WHT and TNG (using WFCAM, Suprime-Cam, FMOS, MOSFIRE, OSIRIS, DEIMOS, NICS, SofI, WFC, LIRIS, AF2). Service mode as PI on HST, VLT, ALMA, Subaru, CFHT, VST.

SELECTED SUCCESSFUL TELESCOPE PROPOSALS

- “The hosts of the early ionising bubbles at $z \sim 7$ with GTC/EMIR” (2018A, **PI, 12h, GTC/EMIR**)
- “A large, matched, Ly α -H α survey at $z = 2.23$ ” (2017B **PI, 2 nights**, CFHT/MegaCam)
- “The largest Lyman- α survey at $z \sim 2.4$ ” (2014B, 2016A, 2017A **PI, 86 hours**, ESO/VST)
- “HAWKI into the epoch of re-ionisation: a $z = 7.7$ pilot” (2016B, **PI, 44h, VLT/HAWKI**)
- “The hosts of the early ionized bubbles at $z \sim 7$ ” (Cycle 24, **PI, 12 orbits, Hubble Space Telescope**)
- “Spectroscopy of the most luminous $z \sim 2.2$ Ly α emitters” (2016B, **PI, 6h, VLT/X-SHOOTER**)
- “The nature and evolution of Ly α emitters at $z \sim 3 - 7$ ” (2016B, **PI, 7 nights**, AF2-WHT/ING)
- “The gas-metallicity and the ISM of CR7” (Cycle 23, **PI, 5 orbits, Hubble Space Telescope**)
- “The nature and evolution of luminous Ly α emitters” (2016B, **PI, 21.6h, VLT/X-SHOOTER**)
- “Gas and dust in the most luminous Ly α emitter at $z > 6$: PopIII?” (Cycle 3, **PI, 6.3 hours, ALMA**)
- “A large, matched, Ly α -H α survey at $z = 2.23$ ” (15B,16A,16B **PI, 9 nights**, CFHT/MegaCam)
- “The most luminous $z = 6.6$ Ly α emitters” (2015A, **DDT 294.A-5039, 5018, PI, 9.3h**, ESO/VLT)
- “The ESO/LEGA-C Public Spectroscopic Survey” (2014-19, co-I, **128 nights**, ESO/VLT)
- “SFGs in clusters: are they dustier, or being quenched?” (2014B, **PI, 4 nights**, WHT/ING)
- “Spectroscopic follow-up of candidate $z > 6$ line emitters” (2014B, **PI, 3 nights**, WHT/ING)
- “A large, perfectly matched, Ly α -H α survey at $z = 2.23$ ” (2014A&B, **PI, 18 nights**, INT/ING)
- “Probing the $z=1.0$ Kennicutt-Schmidt law by combining ALMA and KMOS” (Cycle 2, Co-I, 4h, ALMA)
- “A resolved view to star-forming galaxies at $z = 1.47 - 2.23$ ” (Cycle 2, Co-I, 14h, ALMA)
- “Completing Subar-HiZELS: a H α -[OII] matched survey at $z = 1.47$ ” (2014A, 13A, **PI, 3 nights**, Subaru)
- “SINFONI Spectroscopy of $z = 8.8$ Ly α candidates” (13B, 14A **PI, 17 hours**, ESO/VLT+WHT/ING)
- “KMOS-CFHiZELS: dynamics and chemistry of SFGs at $z=0.8$ ”, (2013 SV, **PI, 4 hours**, KMOS/VLT)
- “Exploiting the synergy between early ALMA and VLT/AO-IFU” (Cycle 1, Co-I, 6 hours, ALMA)
- “SINFONI-HiZELS: star-forming galaxies across cosmic time” (2013B, Co-I, 52 hours, ESO/VLT)
- “A wide H α narrow-band survey at $z \sim 0.2$ ” (2013B, **PI, 5 nights**, INT/ING)
- “Shock and Awe: an H α survey of merging clusters” (2012B, 2013B, Co-I, 17 nights, INT/ING)
- “A large, perfectly matched, Ly α -H α survey at $z = 2.23$ ” (2013A, **PI, 13 nights**, INT/ING)
- “HiZELS-deep: The nature of faint star-forming galaxies at $z = 2.23$ ” (2013A, Co-I, 14 nights, UKIRT)
- “The role of the environment at $z \sim 1$ with a super-cluster” (2012B, **PI, 35 hrs**, VLT)
- “Do cluster collisions change the history of cluster galaxies?” (2012B, Co-I, 520 hours, WSRT)
- “The widest, contiguous narrow band survey at $z \sim 1 - 9$ ” (2012B, **PI, 3 nights**, CFHT)
- “Hunting Ly α blobs at $z \sim 3$ like never before” (2012B, **PI, 6 nights**, INT/ING)
- “The nature and evolution of luminous H α emitters at $z \sim 0.8 - 2.2$ ” (2012B, **PI, 4 nights**, WHT/ING)
- “The widest, contiguous narrow band survey at $z \sim 1 - 9$ ” (2012A, 2011B, **PI, 4 nights**, CFHT)
- “The nature and evolution of luminous H α emitters at $z \sim 0.8 - 2.2$ ” (2012A, **PI, 4 nights**, ESO/NTT)
- “The nature of bright H α emitters at $z \sim 1.5$ ” (2012A, 2011A, **PI, 5 nights**, TNG)
- “Re-ionisation beacons: a wide NB survey for Ly α emitters” (2012A, Co-I, 36 hours, ESO/VISTA)
- “The mass-metallicity relation and sSFR for galaxies at $z > 1$ ” (2012A, Co-I, 2 nights, Subaru)
- “The role of the environment at $z \sim 1$ with a super-cluster” (2011B, 2010B, **PI, 37 hrs**, VLT)
- “The nature of the most luminous H α emitters” (2011B, **PI, 3 nights**, ESO/NTT)
- “Subar-HiZELS: a multiple and matched NB survey at $z=1.47$ ” (2011A, 2010B, **PI, 2.5 nights**, Subaru)
- “The faint-end of the $z=1.47$ H α luminosity function” (2010B, **PI, 5 nights**, UKIRT)
- “HiZELS: the Hi-z Emission Line Survey” (2009, Co-I, 33 nights, UKIRT)

SUPERVISION OF PhD STUDENTS (5 on-going, 2 completed)

- “The end of the dark ages: the physics of the first galaxies”, Sergio Santos (U. Lancaster) 2016-2020
- “The High- z Universe with Large Emission Line Surveys”, Joao Calhau (U. Lancaster) 2015-2019
- “The first 3 Gyrs with large Ly α surveys”; Jorjyt Matthee (Huygens Fellow, U. Leiden) 2014-2018
- “The KMOS revolution”; Ana Afonso (U. Lisbon+Lancaster) 2014-2018
- “High redshift Emission Line Surveys”; Ali Ahmad Khostovan (NASA Fellow, UC Riverside) 2013-2019
- “When Galaxy Clusters Collide”; Andra Stroe (Co-supervision, U. Leiden) 2011-2015
- “Evolution of Galaxies in the Cosmic Web”; Behnam Darvish (Co-supervision, UC Riverside) 2011-2015

SUPERVISION OF MSc STUDENTS (4 on-going, 11 completed)

- “The roles of nature and nurture in galaxy evolution”, Joe Cairns and Jake Brunson 2017-2018
- “Faint [CII] emitters around bright galaxies in the re-ionisation epoch”, Laurence Day 2017-2018
- “On the warm-hot interstellar medium of high-redshift galaxies”, Lara Alegre (U. Lisbon) 2016-2017
- “The first stars and black holes: observations & modelling”, Jake Harding (U. Lancaster) 2016-2017
- “Slicing the COSMOS: hunting for luminous Ly α emitters”, Alex Forshaw (U. Lancaster) 2016-2017
- “Slicing the COSMOS: hunting for luminous Ly α emitters”, Thomas Rose (U. Lancaster) 2016-2017
- “The largest Ly α NB survey at $z = 5.7$ ”, Sergio Santos (MSc, U. Lisbon, 20/20) 2015-2016
- “A simple empirical model for galaxy evolution since $z = 2.23$ ”; Fei Li (MSc, Leiden-ETH) 2013
- “Near-IR spectroscopy of luminous H α emitters at $z = 0.8 - 2.23$ ”; Saul Kohn (MSc, Leiden-ROE) 2013
- “A very wide narrow-band survey: searching for Ly α at $z \sim 9$ ”; Jorjyt Matthee (MSc, Leiden) 2012-2013

SUPERVISION OF BSc STUDENTS (15 completed)

- “XGAL-Lancaster internships”: 6 students 2017
- “XGAL Research Fellows”: Brenda Miranda, Santosh Harish, Sergio Santos, Lara Alegre 2015
- “From the First Galaxies to the Milky Way: research internship”, Sergio Santos (BSc) 2015
- “A matched, wide-field Ly α - H α $z=2.23$ survey”; Carolina Duarte (BSc, Lisbon) 2013-2014
- “Searching for luminous Ly α emitters at $z \sim 6 - 7$ ”; Sergio Santos (BSc, Lisbon) 2013-2014
- “A large $z \sim 0.2$ H α survey”; Ruben Goncalves (BSc, Lisbon) 2013-2014
- “Ly α blobs at $z \sim 2 - 3$ ”; Arthur Bosman & Sierk Terwisga (BSc, Leiden) 2012-2013

TEACHING EXPERIENCE

Fellow of the Higher Education Academy (FHEA) since November 2016

13 different modules/courses taught - Physics, Astronomy & Astrophysics

- 2018/19 PHYS369 - Observational Astrophysics Group Project (New module, Lancaster University)
- 2017/18 PHYS264 - Astrophysics I (Lecturer, Lancaster University)
- 2017/18 PHYS263 - Astronomy (Lecturer, Lancaster University)
- 2017/18 PHYS111 - Functions and Differentiation (Lecturer, Lancaster University)
- 2016/17 PHYS263 - Astronomy (Lecturer, Lancaster University)
- 2016/17 PHYS111 - Functions and Differentiation (Lecturer, Lancaster University)
- 2015/16 PHYS263 - Astronomy (Lecturer, Lancaster University)
- 2014/15 Advanced Topics in Galaxies (Invited Lecturer, University of Porto, PhD course)
- 2014/15 Extragalactic Astrophysics: Galaxy Formation and Evolution (Lecturer, University of Lisbon)
- 2013/14 Astronomy and Astrophysics (Lecturer, University of Lisbon)
- 2010/11 (S1) Quantification for Life Sciences; Physics of Stars and Nebulae; Astrophysics 3 (U. Edinburgh)
- 2009/10 (S2) High-Energy Astro; Astrophysics 3; Astrophysics labs; Physics 1B; Astro1G (U. Edinburgh)
- 2009/10 (S1) Astronomy 1S; Quantification for Life Sciences; Physics of Stars and Nebulae (U. Edinburgh)
- 2008/09 Physics 1B; Physics 1B laboratories; Astro 1G; Physics of Stars and Nebulae (U. Edinburgh)
- 2007/08 Physics 1B; Physics 1B laboratories; Astro 1G; Physics of Stars and Nebulae (U. Edinburgh)

LEADERSHIP, MANAGING & SERVICE EXPERIENCE

- Portuguese Representative in the ESO User’s Committee (2014-2017)
- Co-lead of ESA/FLARE SWG2: “FLARE IFU spectroscopy at high-z”
- SOC member: “Early stages of Galaxy Cluster Formation”, ESO Workshop, (ESO, 2017)
- Member of Selection Committees for hiring new PhD students and Postdocs (2015-16)
- Reviewer/referee for OPTICON, Belgium’s National funding agency VWO and FONDECYT Chile
- Frequent Reviewer (~ 7 papers per year) for the Astrophysical Journal (ApJ), the Astrophysical Journal Letters (ApJL), Monthly Notices of the Astronomical Society (MNRAS), Science, A&A, PASJ.
- Board member of the Portuguese Astronomical Society (SPA, 2015-2019)
- SOC member and organiser of High-z session at NAM, Nottingham (2016)
- SOC member: “Escape of Lyman radiation from galactic labyrinths”, (Crete, 2016)
- IA-Lisbon Seminar organiser (2015)
- ESO OPC Panel A member/referee P95+P96 - ESO Observing Programme Committee (2014-2015)
- **PI** of the XGAL research group, (2014–); Co-I of the 128 nights ESO/VLT spectroscopic survey LEGA-C
- Member of the J-PAS collaboration (2015–)
- SOC member of the international conference DEEP15 (“At the Edge of the Universe”), March 2015
- SOC member of the Portuguese National Astronomy Meeting ENAA 2014 and GALAXIES::ON!
- Selection Committee for hiring new PhD students within the FCT-funded PhD::SPACE program (2014)
- Coffee talk and Journal club organiser at CAAUL/Lisbon (2014–2015)
- Organiser of LEAPS: The Leiden/ESTEC Astrophysics Program for Summer Students (2013)
- Responsible for HiZELS public/world data releases
- Lunch talk Organiser at Leiden Observatory (2011/12)
- Postgraduate representative at the Institute for Astronomy, University of Edinburgh (2008/09)
- Organiser, project author or collaborator of 5 international conferences (abstract selection for 2 of them), including At the Edge of the Universe, in Sintra (2006)
- President of the Science Youth Association (AJC, Portugal); Director of magazine Ciência J (2005-07)

SELECTED TALKS AND PRESENTATIONS (>70 talks, of which >35 Invited Seminars/talks)

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| Contributed talk, S3, EWASS2018, Liverpool, UK | 2018 |
| Invited seminar, IAC Tenerife, Spain | 2017 |
| Invited seminars, U. Nottingham; U. Hertfordshire, UK | 2017 |
| Invited seminars, U. Portsmouth; U. Cardiff, UK | 2016 |
| Invited seminar, U. Durham, UK | 2016 |
| Contributed talk, High-z session, NAM, Nottingham, UK | 2016 |
| Invited talk, ESO, Garching, Germany | 2016 |
| Invited talk, Spectroscopy through the ages, Leiden, NL | 2016 |
| Contributed talk, Escape of Lyman photons, Crete, Greece | 2016 |
| Invited seminar, U. Stockholm, Sweden | 2016 |
| Contributed talk, J-PAS meeting, Rio de Janeiro, Brasil | 2016 |
| Contributed talk, RAS High-z specialist meeting, London, UK | 2016 |
| Contributed talk, The re-ionisation epoch, Aspen, USA | 2016 |
| Invited seminar, U. Warwick, UK | 2016 |
| Contributed talk, RAS specialist meeting, London, UK | 2016 |
| Invited seminar, U. Geneva, Switzerland | 2015 |
| Invited talk, U. Yale, USA | 2015 |
| Contributed talk, CDFS: Galaxy evolution, Crete, Greece | 2015 |
| Contributed talk, South by High Redshift, Austin, USA | 2015 |
| Contributed talk, DEEP15, Sintra, PT | 2015 |
| Invited seminar, IA-University of Porto, Porto, PT | 2015 |
| Invited seminar, CEFCA, Teruel, Spain | 2015 |

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| Invited talk, WISH workshop, LAM, Marseille | 2014 |
| Contributed talk, 2014 ENAA (Prize for Best ESO talk), Porto, PT | 2014 |
| Contributed talk, IAU S309: “Galaxies in 3D across the Universe”, Vienna, Austria | 2014 |
| Subaru Seminar, NAOJ, Hilo, Hawaii | 2014 |
| Contributed talk, “Galaxy Formation and Evolution from the Early Universe to Today”, Croatia | 2014 |
| Contributed talk, “Exploring the Universe in 3D with MUSE, KMOS and ALMA”, Garching, GE | 2014 |
| Invited Coffee Talk, ETH Zurich | 2013 |
| Contributed talk, Deconstructing galaxies, ESO Workshop, Santiago, Chile | 2013 |
| Seminar, Universidad Catolica de Chile, Santiago, Chile | 2013 |
| Cosmology Seminar, UC Davis, California, US | 2013 |
| Contributed Talk, Galaxy Formation and Evolution over 5 decades, U. Cambridge, UK | 2013 |
| Seminar, University of California - Riverside, California, US | 2013 |
| CFHT Science Talk, CFHT Waimea, Hawaii, US | 2013 |
| Lunch Talk, University of Durham, UK | 2013 |
| Invited Seminar, University of Nottingham, UK | 2013 |
| Discovery Talk, University of Leiden, The Netherlands | 2013 |
| Colloquium, University of Concepcion, Concepcion, Chile | 2012 |
| Contributed Talk, Stellar Populations across Cosmic Times, Subaru-IAP, Paris, France | 2012 |
| Caltech Astronomy Colloquium, Caltech, Pasadena, US | 2012 |
| Talk, UKIDSS 2012 Workshop, IfA, University of Edinburgh, UK | 2012 |
| Contributed Talk, Dutch National Astronomy Conference (NAC) 2012, The Netherlands | 2012 |
| Seminar, University of California - Riverside, US | 2012 |
| Colloquium, Institute for Astronomy, University of Hawaii, US | 2012 |
| Subaru Seminar, Subaru Telescope, Hilo, Hawaii, US | 2012 |
| Colloquium, CAAUL, Lisbon, PT | 2012 |
| Seminar, IAC Tenerife, Spain | 2012 |
| Galaxy Lunch talk, Leiden Observatory, The Netherlands | 2012 |
| Invited Talk, NOVA Network 1 meeting, Groningen, The Netherlands | 2011 |
| Contributed Talk, Galaxy Mergers in an Evolving Universe, Taiwan | 2011 |
| Invited Talk, ESO Vitacura, Santiago, Chile | 2011 |
| Seminar, CAAUP, Porto University, Portugal | 2011 |
| Seminar, TNG-INAF, La Palma, Spain | 2011 |
| Colloquium, Institute for Astronomy, University of Hawaii, US | 2011 |
| Seminar, Joint Astronomy Center, Hilo, Hawaii, US | 2011 |
| Science Talk, Gemini, Hilo, US | 2010 |
| Thesis Seminar, Institute for Astronomy, University of Edinburgh, UK | 2010 |
| Contributed Talk, Galaxy Evolution: Infrared & Sub-mm, China | 2010 |
| Contributed Talk, S2, JENAM 2010, University of Lisbon, Portugal | 2010 |
| arXiv presentation, California Institute of Technology, US | 2010 |
| FRieD Talk, Institute for Astronomy, Manoa, Hawaii, US | 2010 |
| Colloquium, Institute for Astronomy, Manoa, Hawaii, US | 2010 |
| Seminar, Joint Astronomy Center, Hilo, Hawaii, US | 2010 |
| Seminar, School of Physics & Astronomy, UoE, UK | 2009 |
| Seminar, FCUL, University of Lisbon, Portugal | 2009 |
| Contributed Talk, UKIRT@30: Royal Observatory, UK | 2009 |
| Contributed Talk, DEX Meeting, University of Durham, UK | 2009 |
| Seminar, CAAUL, University of Lisbon, Portugal | 2009 |
| Contributed Talk, Robert Cormack Meeting, University of Dundee, UK | 2009 |
| Contributed Talk, JENAM 2009, U. Hertfordshire, UK | 2009 |
| Invited Seminar, CENTRA, IST, UTL, Lisbon, Portugal | 2008 |
| Contributed Talk, JENAM 2008, University of Vienna, Austria | 2008 |

SELECTED SCIENCE AWARENESS, OUTREACH AND LECTURES

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| Astrophysicists map the infant Universe in 3D and discover 4000 galaxies (EWASS18) | 2018 |
| “Time travelling through the Universe”, South Cheshire Astronomical Society | 2018 |
| “The sky is not the limit, it is only the beginning in the quest for our origins”, Serralves, Porto | 2017 |
| “The light at the end of the cosmic dark ages”, Lancaster & Morecambe Astronomical Society | 2017 |
| Astronomers discover cosmic double whammy | 2017 |
| Galaxy Formation and Evolution: Public Talk, The Storey, Lancaster | 2016 |
| Press release: Distant galaxies glow bright in oxygen | 2016 |
| CR7 is not alone: a team of super bright galaxies in the early Universe (RAS) | 2016 |
| Press release: Study explains why galaxies stop creating stars | 2016 |
| First stars (featuring the discovery of CR7) - 1 hour documentary, NHK, Japan | 2016 |
| Lancaster University Master class | 2016 |
| Taster lectures, University of Lancaster | 2016 |
| ESO top 10 discovery, ESO | 2015 |
| “Best Observational Evidence of First Generation Stars in the Universe”, ESO | 2015 |
| “From the Big Bang to the Milky Way”; 700 students; 7 schools, Portugal | 2015 |
| Press release: “Giant cosmic tsunami wakes up comatose galaxies”, RAS | 2015 |
| “From the Big Bang to the Milky Way”; 200 people; Observatório Astronómico de Lisboa, Portugal | 2015 |
| “From the Big Bang to the Milky Way”; 100 students; Queluz, Portugal | 2015 |
| Press release: “Cosmic web accelerates galaxy evolution”, UCR, IA, FCUL | 2014 |
| “Time-travelling in 3D” 15 Schools (>1500 students) around Lisbon (Space week) | 2014 |
| “Time-travelling and galaxy evolution: now in 3D!” Observatório Astronómico de Lisboa, Portugal | 2014 |
| “Darkness, Light, Galaxies and a Universe in Crisis”, Mem Martins, Sintra, PT | 2013 |
| “Darkness, Light, Galaxies and a Universe in Crisis”, Secondary School, Casquilhos, Barreiro, PT | 2013 |
| “Darkness, Light, Galaxies and a Universe in Crisis”, Ciencia Viva, Tavira, PT | 2013 |
| Press release: “Cosmic GDP crashes 97% as star formation slumps”, RAS | 2012 |
| Covered by e.g.: NYTimes, TIME, Wired, NBC, CBS and on more than 20 countries | 2012 |
| Press release: “Time-Traveling with One Method”, Subaru Telescope | 2012 |
| Press release: “Mapping Galaxy Formation in Dual Mode”, Subaru Telescope | 2012 |
| “All You Ever Wanted to Know About the Universe”, Secondary School, Casquilhos, PT | 2012 |
| “Once Upon a Universe”, Galloway Astronomy Centre, UK | 2011 |
| “The Universe seen by Ants with Telescopes”, Observatório Astronómico de Lisboa, Portugal | 2011 |
| “Science vs. Religion”, Secondary School, Santo André, Portugal | 2011 |
| “The Fascinating Life of Mr. Universe”, ROE Visitor Center, Edinburgh, UK | 2011 |
| “The Fabulous Life of Mr. Universe”, Imiloa Astronomy Center, Hilo, Hawaii, US | 2011 |
| - Science outreach collaborator at the Royal Observatory Visitor Center | 2007-2011 |
| “Being an Astronomer”, EB2+3 Quinta da Lomba, Portugal | 2010 |
| “From the Dark Ages to the Present-Day Universe” Observatório Astronómico de Lisboa, Portugal | 2010 |
| “Estimating Star-formation at high-z”, Institute for Astronomy, U. Edinburgh, UK | 2010 |
| “The Invisible Universe”, Secondary School, Casquilhos, Portugal | 2010 |
| “Searching for the furthest galaxies”, ROE Visitor Center, Edinburgh, UK | 2010 |
| Ask an Astronomer, ROE Visitor Center, Edinburgh, UK | 2010 |
| “The Invisible Universe”, ROE Visitor Center, Edinburgh, UK | 2009 |
| “The Physics of Micro-rockets & how to build them”, several Schools & Institutions, Portugal | 2005-07 |
| “Black Holes: The Universes Secret Keepers”, Observatório Astronómico de Lisboa, Portugal | 2004 |
| - Science outreach writer for several local and regional newspapers and magazines in Portugal | 2002-2007 |

PROGRAMMING AND DATA ANALYSIS EXPERIENCE

– Developed PfHiZELS, a data-reduction and analysis pipeline for large data-sets of near-IR imaging

- Data reduction and analysis experience in optical+near-IR narrow-, broad-band and spectroscopy (slit+MOS)
- Excellent experience in source extraction, catalogue production, multi-wavelength matching, SED fitting, stellar mass estimations, morphological classifications, clustering analysis and environmental studies
- Proficient in Python and script-writing; excellent experience with astronomical software (e.g. IRAF, SExtractor, Gaia, ds9, Topcat). Good knowledge of C and C++
- Experience in the use of all major operating systems (Mac OS, Linux, Windows, Solaris, DOS)

SELECTED GRANTS, AWARDS & PRIZES (> 8 YEARS)

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| Best research presentation, Physics Students Meeting (EUR 600, University of the Algarve) | 2007 |
| Academic Merit Scholarship - Faculty of Sciences (EUR 480; University of Lisbon) | 2006-07 |
| Chilean School of Astrophysics Scholarship (USD 700; Pontificia Universidad Católica de Chile) | 2006 |
| Ferreira de Castro Prize for Young Writers: Best Novel (EUR 700; Science Fiction) | 2006 |
| Santander Academic Merit Scholarship (EUR 400; University of Lisbon/Santander Bank) | 2005-06 |
| Young writer of 2005 award (Amarante, Portugal) | 2005 |
| Outstanding Performance in 1st year Scholarship (95%) (EUR 1,500; University of Lisbon) | 2004-05 |
| 16th EU Contest for Young Scientists, representing Portugal (University College Dublin) | 2004 |
| Ciencia em Movimento award and scholarship (EUR 1,000, University of Lisbon) | 2004 |
| Astro-Cosmos award and scholarship (EUR 1,000, Lisbon's Astronomical Observatory) | 2004 |
| National Contest for Young Scientists (EUR 750, Portugal, Fundacao da Juventude) | 2003-04 |

LANGUAGES: Portuguese, English, Spanish, French

Publication list (May 2018)

REFEREED PUBLICATIONS (Total: 96; as 1st(2nd) author: 18(37); Citations: 3148; h: 33)

- 1) “HiZELS: a high-redshift survey of H α emitters - II. The nature of star-forming galaxies at $z = 0.84$ ”; **Sobral, David** ; Best, P. N.; Geach, J. E.; Smail, Ian; Kurk, J.; Cirasuolo, M.; Casali, M.; Ivison, R. J.; Coppin, K.; Dalton, G. B; **2009, MNRAS, 398, 75.**
- 2) “Bright Ly α emitters at $z \sim 9$: constraints on the LF from HizELS”; **Sobral, David** ; Best, P. N.; Geach, J. E.; Smail, Ian; Kurk, J.; Cirasuolo, M.; Casali, M.; Ivison, R. J.; Coppin, K.; Dalton, G. B.; **2009, MNRAS, 398, L68.**
- 3) “Obscured star formation at $z = 0.84$ with HiZELS: the relationship between star formation rate and H α or ultraviolet dust extinction”; Garn, Timothy; **Sobral, David** ; Best, Philip N.; Geach, James E.; Smail, Ian; Cirasuolo, Michele; Dalton, Gavin B.; Dunlop, James S.; McLure, Ross J.; Farrah, Duncan; **2010, MNRAS, 402, 2017.**
- 4) “The clustering and evolution of H α emitters at $z \sim 1$ from HiZELS”; **Sobral, David** ; Best, Philip N.; Geach, James E.; Smail, Ian; Cirasuolo, Michele; Garn, Timothy; Dalton, Gavin B.; Kurk, Jaron; **2010, MNRAS, 404, 1551.**
- 5) “The dependence of star formation activity on environment and stellar mass at $z \sim 1$ from the HiZELS-H α survey”; **Sobral, David**; Best, Philip N.; Smail, Ian; Geach, James E.; Cirasuolo, Michele; Garn, Timothy; Dalton, Gavin B.; **2011, MNRAS, 411, 675.**
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