

JOSÉ M. AFONSO

Curriculum Vitae - March 2023

Department of Physics, Faculty of Sciences, University of Lisbon

Institute of Astrophysics and Space Sciences

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PERSONAL PROFILE

Committed to state-of-the-art research on galaxy formation and evolution. Leader of academic research. Effective educator. Promoter of outstanding Science Communication and Outreach activities. Innovative and efficient manager.

EDUCATION

- 07/2019 Habilitation (agregação) in Astrophysics, University of Lisbon.
- 02/2002 PhD in Astrophysics, Imperial College of Science, Technology and Medicine, University of London. Thesis title: "On the star-forming properties of faint radio sources". Advisors: Bahram Mobasher (Space Telescope Science Institute, USA) and Michael Rowan-Robinson (Imperial College London, UK).
- 03/1998 MSc in Astronomy and Astrophysics, University of Lisbon (grade: A). Thesis title: "HCN and Infrared Observations of Bok Globules: detection of very young stellar objects". Advisor: João Lin Yun (Faculty of Sciences of the University of Lisbon, PT).
- 07/1996 Degree in Physics, Faculty of Sciences of the University of Lisbon (grade: 19/20).

EMPLOYMENT

- 04/2004 - present Researcher (*Investigador Auxiliar*), Department of Physics, Faculty of Sciences of the University of Lisbon.
- 04/2002 - 04/2004 Post-doctoral researcher, Center for Astronomy and Astrophysics of the University of Lisbon and Onsala Space Observatory.

PROFESSIONAL MEMBERSHIPS

- 09/2015 - present International Astronomical Union - Member of Division J (Galaxies and Cosmology) and Division B (Facilities, Technologies and Data Science).
- 04/2002 - present Portuguese Astronomical Society

SCIENTIFIC APPOINTMENTS

Ongoing:

- 01/2023 - present President of the Portuguese Astronomical Society (elected September 2022).
- 06/2016 - present Member of the European Space Agency Athena Wide Field Imager Consortium Board, in representation of Portugal.
- 06/2016 - present Member of the European Space Agency Athena Wide Field Imager Science Team.
- 01/2016 - present Member of the steering committee of MOSAIC, a multi-object spectrograph in development for European Southern Observatory's Extremely Large Telescope.
- 07/2014 - present Core member of the Square Kilometre Array Science Working Group: Continuum Science Team.
- 01/2011 - present Co-Principal Investigator for MOONS, a Multi-Object Optical and Near-infrared Spectrograph for the VLT, under construction (first light planned for 2024).

Past:

- 01/2015 - 07/2021 Coordinator of the Institute of Astrophysics and Space Sciences (Portugal) - elected February 2015, and for a second term in April 2018.
- 01/2015 - 05/2019 Leader of the Thematic Line "The assembly history of galaxies resolved in space and time" of the Institute of Astrophysics and Space Sciences.
- 04/2014 - 03/2021 Head (after being proponent) of the Portuguese ALMA Centre of Expertise (PACE), part of the European ALMA Regional Centre Network.
- 07/2013 - 12/2014 Responsible for the proposal of the Institute for Astrophysics and Space Sciences, merging the Centre for Astronomy and Astrophysics of the University of Lisbon and the Centre for Astronomy/Astrophysics of the University of Porto.
- 11/2012 - 12/2014 Coordinator of the Consortium for Research in Astronomy and Astrophysics (Portugal).
- 04/2011 - 12/2014 Director of the Centre for Astronomy and Astrophysics of the University of Lisbon (elected in April 2011).
- 2011 - 2015 Portuguese representative for the Scientific Technical Committee of the European Southern Observatory.
- 2004 - 2011 Member of the ALMA European Science Advisory Committee (ESO).
- 2007 - 2010 Member of the ALMA Science Advisory Committee.
- 2007 - 2009 Chair of the ALMA European Science Advisory Committee (ESO).

UNIVERSITY SERVICES

Ongoing:

- 09/2015 - present Director of the PhD Degree in Astronomy and Astrophysics of the University of Lisbon
- 07/2015 - present Member of the Scientific Council of the Faculty of Sciences of the University of Lisbon
- 04/2013 - present Member of the Executive Board and the Scientific Committee of the FCT-funded Doctoral Network in Space Sciences PhD::SPACE, involving the PhD Degree in Astronomy and Astrophysics of the University of Lisbon and the PhD Degree in Astronomy of the University of Porto

Past:

- 09/2015 - 09/2018 Vice-president of the Department of Physics of the Faculty of Sciences of the University of Lisbon
- 06/2014 - 12/2017 Member of the General Council of the Foundation of the Faculty of Sciences of the University of Lisbon

ACADEMIC AWARDS

- 2000 Valerie Myerscough Prize, for “young postgraduate students of the University of London who show outstanding ability and potential for original work in Astronomy, Mathematics or Physics” (University of London).
- 1997 Calouste Gulbenkian Foundation “Program for Stimulating Research” award.
- 1996 Department of Physics of the Faculty of Sciences of the University of Lisbon Award (graduation with the highest grades).
- 1993 Faculty of Sciences of the University of Lisbon Foundation Award (best grades for a first year student).

MAIN SCIENTIFIC RESEARCH INTERESTS

- Galaxy Formation and Evolution;
- Deep Radio Surveys;
- The Earliest Active Galactic Nuclei;
- Unbiased estimates of star-formation in galaxies;
- Epoch or Reionisation of the Universe

SKILLS

Coordination of Research

- Coordination of large research teams, both co-located and geographically dispersed. Capable of focusing on growth of new teams and/or on the consolidation of human/technical resources and expertise.
- Definition and implementation of research strategy, both at small scales (topical research team: 3 - 30 strong) and large scales (multi-topical research institute, large international teams: 30 - 150 strong).
- Experienced seeker of funding sources for research, both national and internationally. Directly responsible for:
 - around 7M€ in direct capital funding over the last 15 years (FCT Research Projects and National Research Unit Strategic Projects);
 - the equivalent of 1.5M€ in PhD fellowships (20 fellowships from the PhD::SPACE Doctoral Program, 1 from the ID-PASC Doctoral Program, 3 from FCT, one of which was not accepted by the candidate, and 1 from the Regional Fund of Science and Technology of the Regional Government of the Azores);
 - the equivalent of more than 1.7 M€ in Postdoctoral Fellowships (directly co-developed the application of 9 FCT Postdoctoral Fellowships) and research contracts (directly co-developed the application of 1 Ciência, 2 Investigador FCT applications, 1 of which was approved but not accepted by the candidate, and one Marie Curie fellowship);
 - co-proponent of the MOONS instrument to the European Southern Observatory, a project valued at more than 30 M€ (11 M€ hardware), with a 6M€ contribution from ESO, which is currently in the final stages of construction (first light in 2024).

Teaching

- Member of the Executive Board and the Scientific Committee of the FCT-funded Doctoral Network in Space Sciences PhD::SPACE, involving the PhD Degree in Astronomy and Astrophysics of the University of Lisbon and the PhD Degree in Astronomy of the University of Porto
- Mentoring of post-graduate (MSc, PhD) students
- Supervision of undergraduate dissertations
- Developed and implemented undergraduate and postgraduate courses (including Extragalactic Astrophysics; Project in Astronomy and Astrophysics; Astrophysics Laboratory)
- Coordinator of the PhD Degree in Astronomy and Astrophysics (University of Lisbon)

Computing

- Experienced user of astronomical data reduction software at optical, near-infrared (imaging and spectroscopy), mid and far-infrared, radio, millimetre and X-ray wavelengths.
- Frequent use of operating systems Unix, Windows and macOS.

- Programming skills in Fortran, IDL, CASA.
- Knowledge of SQL

Project and Time Management

- Continuously perfecting time management skills through managing different research, teaching and supervision, coordination and administration duties.
- Management of research projects and teams.
- Adoption of innovative tools to increase team-working effectiveness (e.g., slack, freedcamp, trello).

Administration

- Managed both small and large research units
- Participated in the management of a Physics Department (vice-president)
- Managed and supervised research staff
- PhD degree administrator
- Supervised student theses and set and marked examinations
- Organisation and planning of major international conferences
- Created surveys for new students at the Department of Physics and analysed results

Communication

- Large experience and confidence in addressing different audiences (e.g., public, students, colleagues, senior management, funding bodies, government).
- Explorer of new forms of audience engagement.
- A large number of articles and books published.
- A large number of funding applications developed and submitted.
- Experienced report writing, skilled interviewer.

PROJECT MANAGEMENT AND FUND RAISING

- 04/2013 - present Member of the Executive Board and the Scientific Committee of the FCT-funded Doctoral Network in Space Sciences PhD::SPACE, involving the PhD Degree in Astronomy and Astrophysics of the University of Lisbon and the PhD Degree in Astronomy of the University of Porto. Total funding: €1.151.040,00 for 20 PhD Fellowships attributed over the 2014-2017 period with an additional €36.000,00 budget for related expenses.
- 01/2011 - present Co-Principal Investigator for the instrumentation project MOONS, a Multi-Object Optical and Near-infrared Spectrograph for the VLT. Construction phase (post-FDR) started in 2017, for an anticipated first-light in 2024. Total funding: 11 M€ for hardware (6 M€ from ESO, 7M€ from Consortium), plus an estimated 20 M€ in manpower.

- 01/2009 - present Co-Investigator for the research project *Evolutionary Map of the Universe* (EMU), for a wide-field deep radio legacy survey to be carried out with the Australian Square Kilometre Array Pathfinder telescope in the 2020-2023 timeframe. Project Leader for the EMU Key Science Project "*Radio AGN in the EoR*".
- 09/2018 - 09/2021 Principal Investigator for the research project "*IdEaS with ALMA - Identifying the Earliest Supermassive Black Holes with ALMA*", funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €239.885,11.
- 01/2020 - 07/2021 Principal Investigator for the strategic project of the Institute of Astrophysics and Space Sciences (research unit), funded by the Foundation for Science and Technology (FCT, Portugal). Total funding for the 2020-2023 period: €1.978.055,00.
- 01/2015 - 12/2019 Principal Investigator for the strategic project of the Institute of Astrophysics and Space Sciences (research unit), funded by the Foundation for Science and Technology (FCT, Portugal). Total funding for the 2015-2020 period: €3.926.800,00.
- 07/2013 - 06/2016 Principal Investigator for the research project "*Towards very high-redshift radio galaxies in the reionisation epoch using ALMA*", funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €109.022,00.
- 01/2014 - 12/2014 Principal Investigator for the strategic project of the Centre for Astronomy and Astrophysics of the University of Lisbon (research unit), funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €41.530,00.
- 01/2011 - 12/2013 Principal Investigator for the strategic project of the Centre for Astronomy and Astrophysics of the University of Lisbon (research unit), funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €141.692,00.
- 01/2010 - 12/2013 Co-Investigator for the research project "*On the pathway to SKA: science with the next generation of radio-telescopes*", funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €173.000,00, of which €81,176.00 were directly managed.
- 01/2010 - 06/2013 Principal Investigator for the research project "*The Bulgeless side of Galaxy Evolution*", funded by the Foundation for Science and Technology (FCT, Portugal). Total funding: €90.000,00.
- 06/2005 - 05/2008 Principal Investigator for the research project "*The First Radio-Galaxies: selection and study of the most distant galaxies using the deepest astronomical surveys*", funded by the Foundation for Science and Technology (FCT, Portugal) between June 2005 and May 2008. Total funding: €45.000,00.

06/2002 - 05/2005 Principal Investigator for the research project “*Galactic evolution through an unbiased census of star formation*”, funded by the Foundation for Science and Technology (FCT, Portugal) between June 2002 and May 2005. Total funding: €24.650,00.

EXPERT REVIEWER / ASSESSOR

- Science Assessor for the Atacama Large Millimetre Array Cycle 3 (2015), Cycle 4 (2016) and Cycle 5 (2017) Call for Applications in Scientific Category 1: Cosmology and the high redshift universe.
- Referee for the Science and Technology Foundation (Portugal) for PhD and Postdoctoral Fellowships from 2008 to 2012, and from 2016.
- Invited expert for the European Research Council Advanced Grant 2016 Call for Proposals.
- Member of the Observing Time Allocation Committee (OTAC) of the XMM-Newton telescope (European Space Agency) in the scientific category Galaxies and Galactic Surveys. Announcement of Opportunity 4, 5, 8 and 9 (2004, 2005, 2008 and 2009).
- Peer-reviewer for Astrophysics journals — *Astrophysical Journal* (since 2006); *Astronomy & Astrophysics* (since 2005).
- Referee for the Particle Physics and Astronomy Research Council (UK) in 2001.

ACADEMIC EXPERIENCE: SUPERVISION OF STUDENTS

2022 - present	Supervision of the PhD thesis in Astronomy and Astrophysics by Mr. Pedro Martins, Faculty of Sciences of the University of Lisbon (co-supervised by Dr. Israel Matute).
2022 - present	Supervision of the PhD thesis in Astronomy and Astrophysics by Ms. Elaine Worrell, Faculty of Sciences of the University of Lisbon (co-supervised by Dr. Ciro Pappalardo).
2020 - present	Supervision of the PhD thesis in Astronomy and Astrophysics by Mr. Davi Barbosa, Faculty of Sciences of the University of Lisbon (co-supervised by Dr. Israel Matute).
2019 - present	Supervision of the PhD thesis in Astronomy and Astrophysics by Mr. Rodrigo Carvajal, Faculty of Sciences of the University of Lisbon (co-supervised by Dr. Israel Matute).
2016 - 2021	Supervision of the PhD thesis in Astronomy and Astrophysics by Mr. Stergios Amarantidis, Faculty of Sciences of the University of Lisbon. Thesis title: “Towards the detection of the earliest supermassive black holes with the future generation of radio and X-ray surveys” (co-supervised by Dr. Israel Matute and Dr. Hugo Messias).
2014 - 2019	Co-Supervision of the PhD thesis in Astronomy and Astrophysics by Ms. Ana Afonso, Faculty of Sciences of the University of Lisbon. Thesis title:

- “Star-Forming Galaxies` Structural Evolution Across Cosmic Time and Environment”
- 2007 - 2011 Supervision of the PhD thesis in Astronomy and Astrophysics by Mr. Hugo Messias, Faculty of Sciences of the University of Lisbon. Thesis title: “A Multi-wavelength Study of Near- and Mid-Infrared Selected Galaxies at High Redshift: ERGs, AGN-identification and the contribution from dust”. Currently, Dr. Messias is a successful research fellow at the Atacama Large Millimetre Array, in Chile.
- 2011 - 2016 Supervision of the MSc thesis in Physics, specialisation in Astrophysics and Cosmology by Mr. João Retrê, Faculty of Sciences of the University of Lisbon. Thesis title: “Caracterização em rádio-frequências da taxa de formação estelar de galáxias sem bojo a redshifts intermédios“. Mr. João Retrê currently coordinates the Science Communication Group of the Institute of Astrophysics and Space Sciences, in Portugal.
- 2015 - 2016 Supervision of the MSc thesis in Physics, specialisation in Astrophysics and Cosmology by Ms. Joana Oliveira, Faculty of Sciences of the University of Lisbon. Thesis title: “The Differential Evolution of Hot- and Cold-Dust in Galaxies in the Last 7.5 Gyr”. Ms. Joana Oliveira is currently a PhD student at the Paris Observatory.
- 2012 - 2013 Supervision of the MSc thesis in Physics, specialisation in Astrophysics and Cosmology by Mr. João Calhau, Faculty of Sciences of the University of Lisbon. Thesis title: “The X-ray/Radio Correlation for Bulgeless Galaxies”. Mr. João Calhau is currently a PhD student at the University of Lancaster, in England.
- 2009 - 2011 Supervision of the MSc thesis in Astronomy and Astrophysics by Ms. Ana Rei, Faculty of Sciences of the University of Lisbon. Thesis title: “Radio Galaxies at very high redshift: detection limits with the deepest radio surveys”. Ms. Ana Rei is currently a PhD student at the University of Porto, in Portugal.
- 2009 - 2011 Co-Supervision of the MSc thesis in Physics Engineering by Mr. Nuno Rocha, Lisbon Technical University. Thesis title: “Calibration and Image Reconstruction with Radio Interferometers”.
- 2002 - 2004 Supervision of the MSc thesis in Astronomy and Astrophysics by Mr. Cesário Manuel de Almeida, Faculty of Sciences of the University of Lisbon. Thesis title: “O Phoenix Deep Survey: Natureza e Evolução da População de Radio-galáxias de Sub-mJy”
- 2023 - 2023 Supervision of the BSc thesis of Mr. Peer Kuhlbrodt, University of Munster.
- 2022 - 2023 Supervision of the BSc thesis of Mr. Ahmed Labib, University of Leipzig.
- 2006 - 2007 Supervision of the BSc thesis of Ms. Eva Santos, University of Algarve, 2007.

ACADEMIC EXPERIENCE: TEACHING

Responsibilities in several courses of the BSc degree in Physics, MSc degrees in Physics and MSc in Astronomy and Astrophysics of the Faculty of Sciences of the University of Lisbon since 2003:

- 2022/2023 Coordinator of the courses Astrophysics Laboratory and Astronomy and Astrophysics (BSc in Physics);
- 2021/2022 Coordinator of the course Astrophysics Laboratory (BSc in Physics);
- 2017/18 to 2020/21 Coordinator of the courses Complementary Astrophysics (MSc in Physics) and Astrophysics Laboratory (BSc in Physics);
- 2016/2017 Coordinator of the courses Complementary Astrophysics (MSc in Physics) and Traineeship in Astronomy and Astrophysics (BSc in Physics);
- 2015/2016 Coordinator of the course Traineeship in Astronomy and Astrophysics (BSc in Physics);
- 2012/13 to 2014/15 Coordinator of the courses Complementary Astrophysics (MSc in Physics) and Project in Astronomy and Astrophysics (BSc in Physics);
- 2011/2012 Coordinator of the course Complementary Astrophysics (MSc in Physics);
- 2009/2010 Coordinator of the course Extragalactic Astrophysics: Galaxy Formation and Evolution (MSc in Astronomy and Astrophysics);
- 2007/2008 Coordinator of the course Extragalactic Astrophysics: Galaxy Formation and Evolution (MSc in Astronomy and Astrophysics);
- 2003/04 to 2006/07 Support to the course Extragalactic Astrophysics (MSc in Physics), responsible for a module on the evolution of galaxies.

Responsibilities in courses and advanced schools external to FCUL:

- 2016 Eighth Summer School of Astrophysics and Gravitation of Instituto Superior Técnico, September 1 - 6, 2016 — Lecturer for the module Extragalactic Astrophysics;
- 2014 Seventh Summer School of Astrophysics and Gravitation of Instituto Superior Técnico, September 5 - 10, 2014 — Lecturer for the module Extragalactic Astrophysics;
- 2012 Sixth Summer School of Astrophysics and Gravitation of Instituto Superior Técnico, September 4 - 8, 2012 — Lecturer for the module Extragalactic Astrophysics;
- 2011/2012 Support to the course Astrophysics Laboratory (Integrated Master in Engineering Physics of Instituto Superior Técnico) — responsible for a module in Radio Astronomy;

2010 Fifth Summer School of Astrophysics and Gravitation of Instituto Superior Técnico, September 2 - 10, 2010 — Lecturer for the module Extragalactic Astrophysics.

ORGANISATION OF CONFERENCES

2022 International Evolutionary Map of the Universe International Virtual Meeting, 22-24 July 2022 (organisation of the session “Radio AGN in the EoR”).

2020 International Meeting “Exploiting Archives for Radio Astronomy in the SKA-era”, Lisbon (virtual meeting), Portugal, between 23 and 25 November 2020 (SOC member)

2019 European Week of Astronomy and Space Science (EWASS) Special Session SS12 “Stellar populations in the era of ELTs: advances over the next decade and beyond”, Lyon, France, 28 June 2019 (SOC member)

2019 Non-GA IAU Symposium “Uncovering early galaxy evolution in the ALMA and JWST era”, Viana do Castelo, Portugal, between 17 and 21 June 2019 (SOC member)

2019 International Meeting “Multi-messenger astronomy with SKA precursors and pathfinders, a capacity building workshop”, Aveiro, Portugal, between 12 and 15 May 2019 (SOC member)

2019 International Meeting “IXth SKA Pathfinder Radio Continuum Survey Group (SPARCS) meeting”, Lisbon, Portugal, between 6 and 10 May 2019 (SOC and LOC member).

2018 International Meeting “Athena-WFI Consortium Meeting in Lisbon”, Lisbon, Portugal, between 20 and 22 November 2018 (SOC and LOC member).

2017 International Meeting “MOONS Science Consortium Meeting”, Lisbon, Portugal, between 11 and 13 September 2017 (SOC and LOC member).

2016 National Meeting “XXVI National Meeting of Astronomy and Astrophysics”, University of Aveiro, between 8 and 9 September 2016 (SOC member).

2015 International Conference “Back at the Edge of the Universe: latest results from the deepest astronomical surveys”, Sintra, Portugal, between 15 and 19 March 2015 (SOC and LOC Chair).

2011 National Workshop “ALMA National Community Day”, Lisbon, Portugal, 27 April 2011 (SOC Chair).

2010 National Workshop “National Workshop on ALMA: Getting Ready for Early Science”, Porto, Portugal, 23 June 2010 (SOC Chair).

- 2009 International Conference “ALMA and ELTs: A Deeper, Finer View of the Universe”, ESO - Garching, Germany, between 24 and 27 March 2009 (SOC member).
- 2006 International Conference “At the Edge of the Universe: latest results from the deepest astronomical surveys”, Sintra, Portugal, between 9 and 13 October 2006 (SOC and LOC chair).
- 2005 National Meeting “XV National Meeting of Astronomy and Astrophysics”, Faculty of Sciences of the University of Lisbon and Lisbon Astronomical Observatory, between 28 and 30 July 2005 (SOC and LOC co-chair).

PRESENTATIONS IN CONFERENCES AND SEMINARS

- 2022 Oral Invited Presentation: Key Science Project 8: Radio AGN in the EoR, at the Evolutionary Map of the Universe International Virtual Meeting. July 27 2022. Online event.
- 2022 Oral Presentation: *So... do powerful radio AGN even exist at the EoR?*, 2022 meeting of the SKA Pathfinders Radio Continuum Surveys (SPARCS) “SPARCS XI: The Rise of Sky Surveys”. 2022, November, Inter-university Institute for Data Intensive Astronomy, South Africa. November 21 - 25 2022. Hybrid event.
- 2022 Oral Invited Presentation: Seeking the first radio-powerful AGN within the Epoch of Reionisation, at the Proca Seminar Series, June 9 2022.
- 2021 Oral Invited Presentation: *Supermassive Black Holes as drivers of galaxy formation: from the Milky Way to the edge of the Universe*, XIV Black Holes Workshop, Aveiro, Portugal, December 20 2021.
- 2021 Oral Presentation: Tracking the highest redshift AGN: pushing into the Epoch of Reionisation; 1st Galaxies Day at IA (zoom), Portugal, April 22 2021.
- 2021 Oral Invited Presentation: Breaking the wall: approaching the earliest monster galaxies within the Epoch of Reionisation, Faculdade de Ciências da Universidade de Lisboa, Portugal, February 24 2021.
- 2020 Oral Invited Presentation: Breaking the wall: approaching the earliest radio AGN within the EoR, at the International Centre for Radio Astronomy Research (ICRAR) Colloquium Series, September 24 2020
- 2019 Oral Presentation: Breaking the wall: seeking the earliest radio AGN within the EoR, at the 2019 meeting of the SKA Pathfinders Radio Continuum Surveys (SPARCS) “SPARCS IX - Pathfinders get to work”, Lisbon, Portugal, May 06 - 10, 2019.
- 2019 Oral Presentation: *Breaking the Wall - Seeking the earliest radio AGN within the EoR*, at the SKA General Science Meeting and Key Science Workshop 2019, Cheshire, UK, April 8 - 12 2019.

- 2018 Oral Invited Presentation: *When critical mass catches up to strategy: the road for Portuguese Astronomy*, at the Scientific Meeting of the Spanish Astronomical Society, Salamanca, July 16 - 20 2018.
- 2018 Oral Presentation: *Space 2030: where will we be in 10 years*, at the NewSpace Atlantic Summit, Lisbon, May 28-29 2018.
- 2018 Oral Presentation: *Witnessing the birth of galaxies with SKA and SKA-precursors*, at the SKA PT Days, Lisbon, February 7, 2018.
- 2017 Oral Presentation: *MOONS: scents of Portugal in the upcoming MOS for the VLT*, at the 25th National Astronomy and Astrophysics Meeting, Lisbon, July 19 - 21, 2017.
- 2015 Oral Presentation: *Towards the first generation of Radio Powerful AGN in the Universe*, at the “Back at the Edge of the Universe: Latest results from the deepest astronomical surveys” Conference, Sintra, Portugal, March 15-19, 2015.
- 2014 Oral Presentation: *The Portuguese ALMA Centre of Expertise - PACE*, at the 24th National Astronomy and Astrophysics Meeting, Porto, July 17 - 18, 2014.
- 2014 Oral Presentation: *Identifying the first generation of Radio Loud AGN in the Universe*, at the “Advancing Astrophysics with the SKA”, Sicily, Italy, June 8 - 13, 2014.
- 2013 Oral Presentation: *Searching for the earliest radio galaxies in the pre-SKA era*, at the “Understanding the Radio Continuum Universe with SKA Pathfinders: The 3rd SKA Pathfinders Radio Continuum Surveys (SPARCS) meeting”, Manchester, United Kingdom, September 11 - 13, 2013.
- 2013 Oral Presentation: *Towards the Discovery of the First Radio Galaxies*, at the 23rd National Astronomy and Astrophysics Meeting, Lisbon, July 18 - 19, 2013.
- 2013 Oral Presentation: *Towards the Discovery of the First Radio Galaxies*, at the “Astronomy, Radio Sources and Society - the wonderful century” Meeting, Leiden, The Netherlands, June 10 - 13, 2013.
- 2013 Oral Presentation: *Towards the Discovery of the First Radio Galaxies*, at the “The Modern Radio Universe 2013” Meeting, Bonn, Germany, April 22 - 26, 2013.
- 2013 Oral Presentation: *Dissecting the first radio galaxies with the E-ELT*, at the “Shaping E-ELT Science and Instrumentation” Meeting, Ismaning, Germany, February 25 - March 1, 2013.
- 2012 Oral Presentation: *The environments of faint Ultra Steep Spectrum radio sources*, at the “Growing-up at high redshifts: from proto-clusters to galaxy clusters” Meeting, ESAC, Madrid, Spain, September 23 - 25, 2012.

- 2011 Oral Presentation: *The environments of faint Ultra Steep Spectrum radio sources*, at the 22nd National Astronomy and Astrophysics Meeting, Porto, September 7 - 10, 2011.
- 2011 Oral Invited Presentation: *A New ALMA Mater for Galaxy Formation and Evolution (Review)*, at the 21st National Astronomy and Astrophysics Meeting, Coimbra, September 7 - 10, 2011.
- 2011 Oral Invited Presentation: *The Stacking Implementation and Testing Algorithm for EMU: initial science results*, at the Third International Evolutionary Map of the Universe Workshop, Calgary, Canada, June 30 - July 1, 2011.
- 2011 Oral Presentation: *USS radio sources in SERVS*, at the Spitzer Extragalactic Representative Volume Survey International Meeting, Institut d'Astrophysique de Paris, France, March 14 - 18, 2011
- 2011 Oral Invited Presentation: *USS radio sources below the mJy barrier*, at the Lorentz Center International Workshop - Probing the Radio Continuum Universe with SKA Pathfinders, Leiden, The Netherlands, February 21 - 25, 2011
- 2010 Oral Invited Presentation: *ALMA Science - a short incursion into new capabilities and perspectives*, at the Joint European and National Astronomy Meeting (JENAM), Lisbon, September 7, 2010
- 2010 Oral Invited Presentation: *SWG8 - Source Stacking: Overview and Prospects*, at the Second International Evolutionary Map of the Universe Workshop, Pasadena, USA, August 23-25, 2010
- 2010 Oral Invited Presentation: *Source Stacking: Challenges for EMU*, at the First International Evolutionary Map of the Universe Workshop, University of Hertfordshire, Hatfield, Herts, UK, March 17 - 18, 2010
- 2009 Oral Invited Presentation: *Deep Radio Views of the Universe: preparing for ALMA with a multiwavelength mindset*, at the 19th National Astronomy and Astrophysics Meeting, University of Aveiro, July 15 - July 17, 2009.
- 2009 Oral Invited Presentation: *The End of the Dark Ages of the Universe: emergence of the first stars and galaxies*, at the "Arrábida Meeting 2009 - The notions of emergence in physical and social sciences", Arrábida, Portugal, July 7 - 9, 2009.
- 2009 Oral Presentation: *A Somewhat Lower Frequency View of the Chandra Deep Field South*, at the "Panoramic Radio Astronomy: wide-field 1-2 GHz research on Galaxy Evolution", Groningen, the Netherlands, June 2 - 5, 2009.
- 2009 Oral Invited Presentation: *The First Galaxies: revealing the Dark Ages of the Universe in the Decade of Light of Astronomy*, Celebrations of the

- 90th anniversary of the scientific expedition of Eddington to the Prince Island, Geographical Society of Lisbon, May 21 - 22, 2009
- 2007 Oral Presentation: *The search for the first radio galaxies: desperately seeking ALMA*, at the “Surveys for ALMA workshop”, Garching, Germany, September 5 - 6, 2007.
- 2006 Oral Presentation: *Deep ATCA and GMRT observations of the CDFS*, at “At the Edge of the Universe: latest results from the deepest astronomical surveys”, Sintra, Portugal, October 9 - 13, 2006.
- 2005 Oral Presentation: *Deep radio observations of the Chandra Deep Field South*, at “The Grote Reber Memorial Conference - New Techniques and Results in Low Frequency Radio Astronomy”, Hobart, Australia, December 6 - 10, 2005.
- 2005 Oral Presentation: *Deep radio observations in the CDFS/GOODS field: optical and X-ray identifications*, at the 15th National Astronomy and Astrophysics Meeting, University of Lisbon and Lisbon Astronomical Observatory, July 28 - July 30, 2005.
- 2005 Oral Invited Presentation: *Deep radio observations in the CDFS/GOODS area*, at the “The role of wide and deep multi-wavelength surveys in understanding galaxy evolution” workshop, Tegernsee, Germany, March 29 - April 1, 2005.
- 2004 Oral Presentation: *The population of faint radio sources in the GOODS-South field*, at “The Dusty and Molecular Universe: a prelude to HERSCHEL and ALMA”, Paris, October 27 - 29, 2004.
- 2003 Poster Presentation: *Radio Properties of EROs in the Phoenix Deep Survey*, at the ESO/USM/MPE “Multiwavelength Mapping of Galaxy Formation and Evolution” workshop, Venice, Italy, October 13 - 16, 2003.
- 2003 Poster Presentation: *Morphology and Environments of X-Ray/Radio-Loud AGN in the GOODS Fields*, at the 201st AAS meeting, Washington, USA, January 5 - 9, 2003.
- 2002 Oral Presentation: *Galaxy Evolution from a MicroJansky Radio Survey*, at the “Galaxy Evolution in Groups and Clusters” workshop of the JENAM 2002 meeting, Porto, September 2 - 7, 2002.
- 2000 Oral Presentation: *Mid and Far-IR properties of faint radio galaxies in the Phoenix Deep Survey*, at the “The Evolution of Galaxies. I - Observational clues” Euroconference, Granada, May 23 - 27, 2000.
- 2000 Oral Presentation: *The Nature of the Faintest Radio Sources*, at the “Portugal-ESO-VLT: Portuguese Astrophysical Research for the VLT Era” Workshop, Lisbon, April 17 - 18, 2000.
- 1999 Oral Presentation: *The Phoenix Deep Survey and the nature of the sub-millijansky population of radio galaxies*, at the Ninth National Astronomy

- and Astrophysics Meeting, Lisbon Astronomical Observatory, July 29 - July 30, 1999.
- 1999 Oral Presentation: *The Phoenix Deep Survey: A Deep Microjansky Radio Survey*, at the XXXIVth Rencontres de Moriond, XIXth Moriond Astrophysics Meeting “Building Galaxies: from the Primordial Universe to the Present”, Savoie, France, March 13-20, 1999.
- 1998 Poster Presentation: *A Complete Microjansky Radio Survey*, at the “The Evolution of Galaxies on Cosmological Timescales”, Puerto de La Cruz, Tenerife, November 29 - December 5, 1998.
- 1998 Poster Presentation: *HCN in Bok Globules: a Good Tracer of Collapsing Cores*, at the 191st American Astronomical Society meeting, Washington, USA, January 6-10, 1998.
- 1997 Oral Presentation: *HCN in Bok Globules: implications on star formation*, at the Seventh National Astronomy and Astrophysics Meeting, University of Coimbra, July 31 - August 1, 1997.

OBSERVATIONAL AND DATA PROCESSING EXPERIENCE

- Extensive use (over 300 hours of observational time) of radio arrays (ATCA, VLA and GMRT).
- Use of the Atacama Large Millimetre Array in February to June 2018.
- Use of the SEST millimetre telescope at ESO (La Silla), both in millimetre line (January 25-29, 1997) and bolometer array (SIMBA) observations (November 2001; June, 2002; June and July, 2003).
- Extensive use of optical/near-infrared telescopes, both in imaging and spectroscopic modes (including ESO 3.6m + TIMMI, ESO 2.2m + WFI, ESO NTT + SOFI, CTIO 1.5m + CIRIM, AAT 3.9m + WIF, AAT 3.9m + 2dF, ESO VLT + FORS1, ESO VLT + ISAAC)
- Telescope Operator at the YALO (Yale-AURA-Lisbon-Ohio) telescope, CTIO, September 26 - October 2, 2000.
- Extensive experience in data reduction at optical and near-infrared (imaging and spectroscopy), mid and far-infrared (with ISO), radio (ATCA, VLA, GMRT), millimetre (SEST/SIMBA, JCMT/SCUBA) and X-ray (XMM-Newton) wavelengths.

SCIENCE COMMUNICATION ACTIVITIES (MOST RECENT)

- 2023 O Lado Brilhante do Universo, Ciclo Temas de Ciência do Ano 2023, Biblioteca Municipal de Beja, 20/01/2023
- 2023 A Astronomia da Próxima Geração, Escola Ciência Viva, Pavilhão do Conhecimento, 18/01/2023
- 2022 O Lado Brilhante do Universo, Dia Nacional da Cultura Científica - Encontro 4 Elementos, online, 24/11/2022

- 2022 *O Lado Brilhante do Universo*, Festival Internacional de Ciência - Oeiras, 13/10/2022
- 2022 *O Deslumbrante Universo Humano*, Caminhadas com Arte, Monchique, 25/09/2022
- 2022 *A Astronomia da Próxima Geração*, evento Stars for Ukraine, Observatório Astronómico de Lisboa, 12/03/2022
- 2022 *A Astronomia da Próxima Geração*, Escola Ciência Viva, Pavilhão do Conhecimento, 28/01/2022
- 2022 *O Lado Brilhante do Universo*, Escola Secundária Rainha Dona Leonor, Lisboa, 24/01/2022
- 2021 *O Universo Deslumbrante*, Dia Nacional da Cultura Científica - Encontro 4 Elementos, FCUL, 24/11/2021
- 2021 *A Ciência do Telescópio Espacial James Webb*, 8a Conferência dos Professores Espaciais, (online), through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, 11/11/2021
- 2021 *O Lado Brilhante do Universo*, presentation at the Escola Secundária São Pedro do Sul (online), through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, 02/11/2021
- 2021 *A Astronomia da Próxima Geração*, presentation at the Escola Básica de Abação (online), 29/10/2021
- 2021 *O Lado Brilhante do Universo*, presentation at the Escola Secundária José Gomes Ferreira, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, 26/10/2021
- 2021 *A Astronomia da Próxima Geração*, presentation at the Escola Básica de Abação (online), through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, 22/10/2021
- 2021 *O Lado Brilhante do Universo*, Festival Internacional de Ciência - Oeiras, 16/10/2021
- 2021 *O Lado Brilhante do Universo*, Festival Internacional de Ciência - Oeiras, 14/10/2021
- 2021 *Em Busca das Primeiras Galáxias*, presentation at the Colégio Manuel Bernardes (online), 17/06/2021
- 2020 *O lado brilhante do Universo*, online public presentation for “The Universe Online”, an initiative of the Institute of Astrophysics and Space Sciences, Apr 4, 2020.
- 2019 *A Astronomia da Próxima Geração*, presentation at the Colégio Helen Keller, Lisbon, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, October 09, 2019.

- 2019 *O lado brilhante do Universo*, presentation at the Portela High School, Lisbon, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, October 09, 2019.
- 2019 *O lado brilhante do Universo*, presentation at the EB23 D. Pedro IV, Lisbon, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, October 08, 2019.
- 2019 *A Astronomia da Próxima Geração*, presentation at the EB1 dos Lombos, Lisbon, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, October 07, 2019.
- 2019 *O lado brilhante do Universo*, presentation at the Camarate High School, Lisbon, through the Ciência Viva / ESERO PT outreach program *O Espaço vai à Escola*, October 07, 2019.
- 2019 *A Astronomia da Próxima Geração*, presentation for primary and secondary school students finalists of the Ler+ Espaço project, at its awards Ceremony, Faculty of Sciences of the University of Lisbon, May 11, 2019.
- 2019 *A Astronomia da Próxima Geração*, presentation at the Pedro Arrupe College, Lisbon, April 30, 2019.
- 2018 Organisation and presentation at the “*Festival Antena 2 - Conferência/ debate: Explorar o Universo: viver fora da Terra*”, February 17, 2018
- 2018 Organisation and presentation at the Ignite IAstro Parlamento, May 16, 2018.
- 2018 *Nearer to the unattainable*, public presentation at the Noites no Observatório, Planetário Calouste Gulbenkian, September 29, 2018.
- 2016 - 2018 Organisation of the Ignite IAstro Tour, an event that takes the research of the Institute of Astrophysics and Space Sciences to locations in Portugal outside the main cities, where science communication activities may not be as frequent. In each event, 8 to 10 researchers of the Institute talk about their science using 20 slides and in 5 minutes (15 seconds per slide).
- 2016 - 2018 Presentations in several Ignite IAstro events throughout 2016, 2017 and 2018: Moimenta da Beira (January 16), Montijo (February 13), Grândola (March 5), Tavira (May 7), Beja (June 4), Évora (October 15), Guarda (December 3); 2017: Campo Maior (May 20), Ribeira Grande - Açores (October 7); 2018: Parliament - Lisbon (May 16), Ciência Viva Academy - Lisbon (November 9)
- 2017 *And then there was light: in search of the first stars of the Universe*, public presentation at the Observatório do Lago Alqueva, March 18, 2017.
- 2017 *Next generation astronomy*, public presentation at the Noites no Observatório Astronómico de Lisboa (NOAL), Lisbon, January 28, 2017.

- 2016 Participation at the IAstro Junior event: The Milky Way and other Galaxies, a collaboration between the Institute of Astrophysics and Space Sciences and the Visão Júnior Magazine aimed at children with 7 to 10 years old; Planetário Calouste Gulbenkian, Lisbon, November 19, 2016.
- 2016 *Next generation astronomy*, public presentation at the European Researchers Night - Pavilhão do Conhecimento, Lisbon, September 30, 2016.
- 2016 *Searching for the first galaxies in the Universe*, Welcome Session to the new students of the Faculty of Sciences of the University of Lisbon, September 21, 2016.
- 2016 *Communicating with Aliens*, public presentation at the Starlight Party Alqueva, Mourão, August 27, 2016
- 2016 *Communicating with Aliens*, public presentation at the Noites no Observatório Astronómico de Lisboa (NOAL), Lisbon, March 26, 2016
- 2016 *The Astronomer*, presentation at Fórum de Profissionais, Secondary School of Casquilhos, April 21, 2016
- 2016 *Awesome Universe*, presentation at the Instituto de Tecnologia Química e Biológica, Oeiras, March 18, 2016
- 2016 *Solar System and Beyond...*, presentation at the Pedro de Santarém EB1 School, Benfica, February 4, 2016
- 2016 *And then there was light: in search of the first stars of the Universe*, presentation at the Encontros com a Ciência — Banco de Portugal, Lisbon, January 26, 2016
- 2016 *Solar System and Beyond...*, presentation at the Encontro com o Cientista event of the Ciência Viva School, Lisboa, January 16, 2016
- 2015 *Communicating with Aliens*, public presentation at the Noites no Observatório Astronómico de Lisboa (NOAL), Lisbon, October 31, 2015
- 2015 *Light, Telescopes and the Universe*, presentation at the Plenary session of the 2nd ESERO Conference “Space Teachers”, Pavilhão do Conhecimento, Lisbon, November 14, 2015.
- 2015 *The New Astronomy with ALMA*, presentation at the Escola Superior de Educação de Lisboa, Lisbon, March 26, 2015.
- 2015 *The Universe’s Light*, presentation at the José Saramago High School, Mafra, January 28, 2015
- 2014 *The New Astronomy with ALMA*, public presentation at the Calouste Gulbenkian Planetarium, Lisbon, September 6, 2014.
- 2014 *The New ALMA*, public presentation at the Lisbon Astronomical Observatory, Lisbon, May 31, 2014.

- 2013 Commissioner for the Exhibition "Awesome Universe" (Celebrating ESO's 50th Anniversary), on display at the National Natural History and Science Museum from February 8 to May 5, 2013.

REFEREES

- Professor Bahram Mobasher (PhD supervisor), University of California, Riverside, USA. Email: mobasher@ucr.edu
- Professor James Dunlop (collaborator), Head of the Institute for Astronomy, School of Physics and Astronomy at the University of Edinburgh, UK. Email: jsd@roe.ac.uk
- Professor Micheal Rowan-Robinson (PhD supervisor, collaborator), Imperial College London, UK. Email: m.rrobinson@imperial.ac.uk

PUBLICATIONS - THESIS

- On the star-forming properties of faint radio sources, Afonso, José M., 2002, PhD Thesis in Astrophysics, Imperial college of Science, Technology and Medicine, University of London.
- HCN and Infrared Observations of Bok Globules: detection of very young stellar objects, Afonso, José, 1998, MSc Thesis in Astronomy and Astrophysics, University of Lisbon.

PUBLICATIONS - BOOKS

- *Uncovering Early Galaxy Evolution in the ALMA and JWST Era*, 2020, International Astronomical Union, Volume 352, proceedings of the conference held 3-7 June 2019 in Viana do Castelo, Portugal. Edited by Elisabete da Cunha, Jacqueline Hodge, José Afonso, Laura Pentericci, and David Sobral. Cambridge, UK: Cambridge University Press, 2020
- *At the Edge of the Universe: Latest Results from the Deepest Astronomical Surveys*, 2007, ASP Conference Series, Vol. 380, proceedings of the conference held 9-13 October, 2006 at Sintra, Portugal. Edited by Jose Afonso, Henry C. Ferguson, Bahram Mobasher, and Ray Norris.
- *2005 Past meets present in Astronomy and Astrophysics*, 2006, World Scientific, proceedings of the 15th Portuguese National Meeting in Astronomy and Astrophysics. Edited by José Afonso, Nuno Santos, André Moitinho, and Rui Agostinho.

PUBLICATIONS - REFEREED PUBLICATIONS

Eighty-nine refereed publications, resulting in an h-index of 25, g-index of 51, with 2900 citations (219 self-citations) - Source: SAO/NASA Astrophysics Data System.

89. [MIGHTEE: deep 1.4 GHz source counts and the sky temperature contribution of star forming galaxies and active galactic nuclei](#), Hale, C. L., Whittam, I. H., Jarvis, M. J., et al. 2023, [Monthly Notices of the Royal Astronomical Society](#), Volume 520, Issue 2, (doi:10.1093/mnras/stac3320)

88. [Observational Evidence for Cosmological Coupling of Black Holes and its Implications for an Astrophysical Source of Dark Energy](#), Farrah, D., Croker, K., Zevin, M. et al. 2023, [The Astrophysical Journal Letters](#), Volume 944, Issue 2, id.L31 (doi:10.3847/2041-8213/acb704)
87. [An investigation of the star-forming main sequence considering the nebular continuum emission at low-z](#), Miranda, H., Pappalardo, C., Papaderos, P., et al. 2023, [Astronomy and Astrophysics](#), Volume 669, A16 (doi:10.1051/0004-6361/202244390)
86. [A Preferential Growth Channel for Supermassive Black Holes in Elliptical Galaxies at \$z < 2\$](#) , Farrah, D., Petty, S., Croker, K., et al. 2022, [The Astrophysical Journal](#), Volume 943, Issue 2, id.133 (doi:10.3847/1538-4357/acac2e)
85. [Molecular Gas Heating, Star Formation Rate Relations, and AGN Feedback in Infrared-Luminous Galaxy Mergers](#), Farrah, D., Efstathiou, A., Afonso, J., et al. 2022, [Universe](#), 9, 3 (doi:10.3390/universe9010003)
84. [The GLEAMing of the first supermassive black holes: II. A new sample of high-redshift radio galaxy candidates](#), Broderick, J. W., Drouart, G., Seymour, N., et al. 2022, [Publications of the Astronomical Society of Australia](#), 39, e061 (doi:10.1017/pasa.2022.42)
83. [Revisiting stellar properties of star-forming galaxies with stellar and nebular spectral modelling](#), Cardoso, L. S. M., Gomes, J. M., Papaderos, P., et al. 2022, [Astronomy and Astrophysics](#), 667, A11 (doi:10.1051/0004-6361/202243856)
82. [MIGHTEE: the nature of the radio-loud AGN population](#), Whittam, I. H., Jarvis, M. J., Hale, C. L., et al. 2022, [Monthly Notices of the Royal Astronomical Society](#), 516, 245 (doi:10.1093/mnras/stac2140)
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78. [MIGHTEE: Total intensity radio continuum imaging and the COSMOS / XMM-LSS Early Science fields](#), Heywood I., Jarvis M. J., Hale C. L., et al., 2022, [Monthly Notices of the Royal Astronomical Society](#), 509, 2150 (doi:10.1093/mnras/stab3021)
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71. [A Spitzer survey of Deep Drilling Fields to be targeted by the Vera C. Rubin Observatory Legacy Survey of Space and Time](#), Lacy, M., Surace, J. A., Farrah, D., et al. 2021, [Monthly Notices of the Royal Astronomical Society](#), 501, 892 (doi:10.1093/mnras/staa3714)
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64. [A subarcsecond near-infrared view of massive galaxies at \$z > 1\$ with Gemini Multiconjugate Adaptive Optics](#), Lacy, M., Nyland, K., Mao, M., et al. 2018, [Astrophysical Journal](#), 864, 8

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59. [The structural and size evolution of star-forming galaxies over the last 11 Gyr](#), Paulino-Afonso, A., Sobral, D., Buitrago, F., Afonso, J., 2017, *Monthly Notices of the Royal Astronomical Society*, 465, 2717.
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57. [The Host Galaxies of Micro-Jansky Radio Sources](#), Luchsinger, K. M., Lacy, M., Jones, K. M., et al., 2015, *Astronomical Journal*, 150, 87.
56. [Astronomy below the Survey Threshold](#), Zwart, J., Wall, J., Karim, A., et al. (incl. J. Afonso), 2015, Proceedings of Advancing Astrophysics with the Square Kilometre Array (AASKA14). 9-13 June, 2014. Giardini Naxos, Italy. Online at <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=215>, id.172 (arXiv:1412.5743).
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42. *Radio Continuum Surveys with Square Kilometre Array Pathfinders*, Norris, R., Afonso, J., Bacon, D., et al., 2013, *Publications of the Astronomical Society of Australia*, 30, 20.
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