

# CURRICULUM VITÆ

António Joaquim Rosa Amorim Barbosa

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## Bibliographic data

**Name:** António Joaquim Rosa Amorim Barbosa

**Identity Card Number:** 6011204 do Arquivo de Identificação de Lisboa

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## 1 Scientific profile

### a) *Academic degrees*

**Licenciature:** Licenciado em Física, pelo Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, em 1984, com média final de Dezassete valores.

**Master:** Mestre em Física Nuclear e Partículas, pelo Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, em 1987, com a classificação de Muito Bom.

**Ph.D:** Doutor em Física Nuclear, pela Universidade de Lisboa, em 1991, com Distinção e Louvor.

**Abilitation:** Agregação no grupo de Física pela Universidade de Lisboa, em 2002, por Unanimidade.

### Area of scientific activity

- Infrared instrumentation for Astronomy Astrophysics.
- Cryogenics and optics for space and mechanical applications.
- Instrumentation and Information Systems for Astrophysics and Space.
- Data Acquisition for environment/cloud and high energy physics.

Instrumentation for Space and Earth Observation, including coordination of large projects, optics, optomechanics and cryogenic systems. CAMCAO is high resolution infrared camera that was the imaging camera used by ESO on the multi-conjugate adaptive optics setup MAD. The CAMCAO camera was full designed built, assembled and tested by our team.

Coordination of ESO VLT CAMCAO consortia and the participation in the GRAVITY consortia as a CO-I. The interferometric instrument GRAVITY was developed and build by a consortium of MPE, MPIA, U.Koln, O.Paris, O.Grenoble and our research center, (Co-I A. Amorim) and is deployed in the ESO VLTI infrastructure. Our team is full responsible for the infrared Acquisition Camera system where the four telescope images are analyzed as a field a pupil tracker, a pupil imager and an aberration tracker(SH). A mosaic of 4x4 images are created on the same NIR detector.

Coordination of FCUL participation in the MAGDRIVE FP7 consortia on the development of a cryogenic harmonic drive for space applications. The MAGDRIVE FP7 developed and tested a cryogenic magnetic harmonic drive for space utilization. The SIM team, coordinated by A. Amorim, was fully responsible for the cryogenic design and testing of the MAGDRIVE/MP7 cold prototype.

Participation in the ESO/ELT METIS infrared instrument consortia. Supervision of the engineering for the Portuguese participation in the support and global alignment structure of the METIS instrument for the future ELT telescope of ESO. Instrumentation and Data Acquisition for the investigation of Cosmic Rays effects on earth climate.

Our team is coordinating the Data Acquisition System for the CLOUD experiment at CERN.

Applied reserach for space enviroment - Participation in the “Space Debris” ESA project (2015-2017).

### **Present research interests**

- Co-I of the consortium that is building the GRAVITY instrument for ESO.
- Project “head engineer” of CENTRA/SIM in the METIS (ESO/ELT) instrument consorcia.
- Participating as backup PI in the ESA Microship Laser development with EFACEC/space.
- Participating in the development of the DAQ and fluid dynamics systems for the CERN/CLOUD experiment.
- Coordination of the development of the Fiber Laser cutting objective for EDAETECH (Eso-posende).

### **Bibliografic databases and indexes**

**ORCID ID:** [orcid.org/0000-0003-0638-2321](https://orcid.org/0000-0003-0638-2321) (temporarely not updated due to a bug in scopus to orcid)

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**Researcher\_ID** (WoS) <http://www.researcherid.com/rid/C-8460-2013>

**Google\_Scholar:** <http://scholar.google.com/citations?user=OyztpoYAAAAJ&hl=en>

*c) Refereed publications (excluding ATLAS Physics Papers. See below.)*

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2. First Light for GRAVITY: Phase Referencing Optical Interferometry for the Very Large Telescope Interferometer, R. Abuter, et. al., A&A, Volume 602, June 2017, A94, 23 pages, 23 figures
3. Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation, Frege, C., Ortega et. al., 2018, Atmospheric Chemistry and Physics 18 (1), pp.65
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12. Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory, J. Duplissy et. al. , Journal of Geophysical Research, Volume 121, Issue 4 27 February 2016 Pages 1752–1775
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19. Thermodynamics of the formation of sulfuric acid dimers in the binary (H<sub>2</sub>SO<sub>4</sub>–H<sub>2</sub>O) and ternary (H<sub>2</sub>SO<sub>4</sub>–H<sub>2</sub>O–NH<sub>3</sub>) system, A. Kürten et. al. , *Atmos. Chem. Phys.*, 15, 10701-10721, 2015 <http://www.atmos-chem-phys.net/15/10701/2015/> doi:10.5194/acp-15-10701-2015
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## g) Books

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35. "Experience with the use of meteorology customization of the scientific information database TIDB2", Monteiro M., Simões J., Amorim A., Santos G., Amorim L., Rio J., Lopes N., Batista J. and Prior V., 6. Assembleia Luso-Espanhola de Geodesia e Geofísica, Tomar, 11-14 Fevereiro 2008, Proceedings pages 59 to 62.

### **Organizing of conferences and workshops**

1. Membro da comissão organizadora da X Conferência Nacional de Física, Física 96, Faro, 1996.
2. Membro do secretariado do V Encontro Ibérico de Educação, Covilhã 1994.
3. Integra a comissão científica da XIII Conferência nacional de Física, Évora, 2002
4. Organizador da ATLAS TDAQ annual workshop no Estoril, Lisboa em 2003.
5. Organizador do Gravity consortium workshop em Lisboa - 8,9 Março de 2010.
6. Membro do Local Organising Committee - LOC da conferência JENAM 2010, The European week of Astronomy and Space Science, Setembro de 2010.

### **Invited speaker and seminars**

1. “A Utilização dos computadores nos Cálculos de Física”: Das Máquinas de Cálculo às bases Conhecimento, Colóquio do Departamento de Física 1995.
2. “Os 100 Anos da Descoberta do Electrão”, Coloquio apresentado nas sessões abertas da FCUL, Maio de 1997.
3. “Da Construção da Câmara de Infra-Vermelhos CAMCAO ao futuro dos grandes telescópios terrestres”, palestra convidada na conferência nacional de física, Évora, 2003
4. "Observação e Sistemas de informação", António Amorim, Conferência APDC- Associação Portuguesa de Desenvolvimento das Comunicações, 23 de Outubro 2008, Centro Cultural de Belém, Lisboa
5. Instrumentação em Portugal, António Amorim, XVIII Encontro Nacional de Astronomia e Astrofísica, Évora, Setembro de 2008.

### **Scientific membership**

- Académico correspondente da 2<sup>o</sup> secção da Academia das Ciências de Lisboa.
- Sócio da Sociedade Portuguesa de Astronomia
- Investigador associado CERN (unpaid associate) desde 1991.

### **Direction of Reserach Units and Univerity Units**

1. Coordinator of the branch (Polo) of CENTRA at Faculdade de Ciencias da Universidade de Lisboa since 2015 - The CENTRA polo now includes 9 Ph.Ds and many students including 4 Ph.D. students.
2. Head of the Physics Department of the Faculty of Sciences of the University of Lisboa since 2012 up to 2015
3. Coorfinator of the reserach group ICSEO (Instrumentação e Computação para a observação do espaço e a Terra) that was part of the research center SIM, Laboratório de Sistemas, Instrumentação e Modelação em Ciências e Tecnologias do Ambiente e do Espaço. This reserach group was sharing SIM researchers in Lisboa (FCUL) and Porto (FEUP) untill 2015.

### **Coordination of research projects**

1. Coordination of Projecto CERN/P/FIS/40130/2000, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - Fundação da FCUL

2. Coordination of Projecto CERN/P/FIS/43719/2001, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - Fundação da FCUL
3. Coordination of Projecto ESO/FNU/43843/2001 Construção e Validação da Câmara de Infra-vermelhos CAMCAO, FCT - Fundação da FCUL, LIP-Coimbra, INETI
4. Coordination of Projecto POCTI/FP/FNU/50224/2003, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - Fundação da FCUL
5. Coordination of Projecto POCI/FP/63948/2005, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - Faculdade de Engenharia da U. Porto
6. Coordination of Projecto PDCT/CTE-AST/68915/2006, VLTi Spectro-Imager, O instrumento de espectro-imagem do interferómetro VLTi do ESO - Fundação da FCUL
7. Coordination of projecto, GRID-PT: A Portuguese GRID infrastructure to access, analyze and acquire scientific data associated with the new international information systems" Programa Nacional de Re-equipamento Científico e integrado na Rede Nacional de Geofísica (RNG), Ref<sup>a</sup>.:REDE/1522/RNG/2007,
8. Coordination of Projecto POCI/FP/81940/2007, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - LIP-Coimbra
9. Coordination of Projecto CERN/FP/83515/2008, (Sistemas de Informação e Aquisição de Dados para ATLAS), FCT - LIP-Coimbra
10. Coordination of the Portuguese in project FP7 financiado pela União Europeia, Magnetic-Superconductor Cryogenic Non-contact Harmonic Drive - SPA.2010.2.2-01, till 2014, Fundação da FCUL
11. Co-Investigador of consorcio GRAVITY para o ESO- European Southern Observatory , 2009-presente.

#### **Participation in reserach projects**

1. Participação no projecto de calorimetria para ATLAS, coordenado por A. Maio, LIP e posteriormente no project ATLAS/LHC desde 1993 a 2003 e desde 2009 ao presente, FCT- financiamento através do laboratório LIP-Lisboa.
2. Participação no projecto “Colaborating in the HERA-B experiment”, coordenado por J. Carvalho, FCT - financiamento através do laboratório LIP-Coimbra entre 1997 e 2003.
3. Participação no Projecto “Desenvolvimento, teste e aplicação de novas ferramentas para o ensino experimental da Física” do Programa Ciência Viva 1998.
4. Participação em Vários Projectos de Física Nuclear desde 1988.
5. Participação no projecto Participação no consorcio “Collaboration in the Gaia data analysis consortium”, coordenado por André Moitinho, de 2007 ao presente financiamento através da FCT - Fundação da FCUL

6. Participação no projecto, PTDC/CTE-AST/098034/2008, “2nd Generation instrumentation for the Very Large Telescope Interferometer” coordenado por Paulo Garcia, FCT, coordenado na Fundação da FCUL pela ligação com a linha de instrumentação do centro SIM.
7. Participação no Projecto “Participation in the CLOUD experiment at CERN”, coordenado por F. D. Santos, 2009-2011, FCT - financiamento através da Fundação da FCUL.

### **Total funding obtained**

Coordenação dos projectos acima mencionados com um financiamento, em conjunto, superior a um total de 2.5 M€.

### **Other**

#### **Adviser of Ph.D. thesis**

- Doutoramento em Física Nuclear pela Universidade de Lisboa - Dispersão Deutério Núcleo e Fragmentação do Deutério em Protões, Dispersão Profundamente Inelástica do Deutério - José Paulo dos Santos Ferreira Pinto - 1998.
- Doutoramento em Física pela Universidade de Lisboa - Estudos integrado dos processos de calibração e alinhamento do detector ATLAS e do seu impacto no potencial de descoberta científica- Belmiro Venda Pinto - 2010
- Ph.D. in physics engineering at the Faculdade de Engenharia da Universidade do Porto as co-advisor with Professor Paulo Garcia from FEUP - “Beam characterization and guiding for optical/infrared interferometry”, Narsireddy Anugu, Faculdade de Engenharia da Universidade do Porto, 2017
- Ph.D (Ongoing ) "Aerosol instrument data acquisition and processing" A. Dias, U. Lisboa , co-advised by A. Tome . U. Beira Interior.
- Ph.D (Ongoing ) "The development of the ESO/ELT/METIS WSS", Andre Bone, U. Lisboa , co-advised by Paulo Garcia, FEUP, Universidade do Porto.
- Ph.D (Ongoing ) "The development of a Microchip pulsed laser for an ESA altimeter", Bruno Couto, U. Lisboa , co-advised by Paulo Gordo and Dawei Liang, FCT-UNL.

#### **Adviser of Master thesis**

- Mestrado em Engenharia Física na FCUL, “Development of a Cryogenic Facility for the Generation of Space Debris”, Tiago Frederico, Tese de mestrado, FCUL, Outubro de 2017
- Mestrado em Engenharia Física na FCUL, “Eficiência e Efeitos Térmicos de um Laser de Microchip ”, Hernani Abreu, Tese de mestrado, FCUL, Outubro de 2017

- Mestrado em Engenharia Física na FCUL, “Desenvolvimento e Validação do Sistema de Iluminação de Luz Ultravioleta (UV e VUV) da Infraestrutura de Simulação de Deterioração de Coberturas de Satélites”, Diana Pascoal, Tese de mestrado, FCUL, Setembro de 2017
- Mestrado em Engenharia Física na FCUL, “Construção e teste do analisador de feixe da câmara de infra-vermelhos do GRAVITY/ESO”, Pedro Carvas, Tese de mestrado, FCUL, Dezembro de 2012
- Mestrado em Física na FCUL, "Análise de limites ao espaço de parâmetros de modelos supersimétricos através de quebra de simetrias de carga e cor", Paulo Pereira, Tese de mestrado, FCUL, Dezembro de 2008 (co-orientação com Doutor Pedro Ferreira).
- Mestrado em Física na FCUL, "The ATLAS Conditions Data Model and Interfaces, their use in Calibration and Alignment for Event Reconstruction" Lourenço Vaz Lopes, Tese de mestrado, FCUL, Dezembro de 2008.
- Mestrado em Física na FCUL, "Developments for ATLAS online data processing: quality access tools and B-physics trigger algorithms for  $J/\Psi \rightarrow e^+e^-$ ", Ricardo Neves, tese de mestrado, FCUL, Dezembro de 2008.
- Mestrado em Ensino da Física na FCUL (Co-Supervisor com Prof. José Marques): Marília de Fátima Gonçalves Marcelino e Silva - "Física On-line Construção de uma Ferramenta de Estudo Colaborativo Para O Ensino Experimental da Física" - 2005.
- Mestrado em Astrofísica na FCUL: João Batista "From CP-Violation in primordial baryogenesis to the role of detector alignment in the HERA-B spectrometer" - 2005.
- Mestrado em Ensino da Física na FCUL: Nuno Miguel Sobreira Correia de Assis - "e-Weather: criação e gestão da base de uma base de dados para registos meteorológicos" - 2005.
- Mestrado em Ensino da Física na FCUL: Margarida Maria Correia Conde - "Captura e Análise de Vídeo no Laboratório de Física" - 2004.
- Mestrado em Ensino da Física na FCUL - Carlos Manuel Baptista e Silva - "Sistema de Aquisição de Dados Usando a Placa de Som Como Interface" - 2002.
- Mestrado em Ensino da Física na FCUL: Helena Alexandra C. D. Galego B. e Silva - "A modelação de movimentos oscilatórios a partir da experimentação apoiada em sistemas de informação" - 2002.
- Mestrado em Ensino da Física na FCUL: Luís Miguel de Oliveira Simões - "Inferindo conceitos de som através da experimentação, apoiada em sistemas de informação" - 2002.
- Mestrado em Ensino da Física na FCUL: Maria João Rego Barrocas de Oliveira Simões - "A modelação de movimentos translacionais sob a influência da gravidade, a partir da experimentação, apoiada em sistemas de informação" - 2002.

- Mestrado em Informática pela FCUL - OBK: an Online Bookkeeper for High Energy Physics experiments, Carlos André dos Santos Nunes Ribeiro - Departamento de Informática da FCUL - (Orientador Externo) -2002
- Mestrado em Física pela FCUL - O canal semileptónico na observação de modelos alternativos de dispersão WW - Pedro Lombim Amaral - 1999.
- Mestrado em Física pela FCUL – Dispersão Deutério-Núcleo num formalismo relativista – José Paulo Ferreira Pinto — 1994.
- Mestrado em Física pela FCUL – Teoria de Bethe-Salpeter e sua aplicação ao Pião – Nuno Baltazar F. Sá – 1994.
- Mestrado em Física pela FCUL – Estudo do Canal Semi-leptónico do decaimento  $t\bar{t}$  e calibração do calorímetro de ATLAS – Pedro Miguel Martins Ferreira – 1994.

#### **Habilitation (Agregação) Juiries:**

- Agregação em Física, Fac. Ciências e Tecnologia da Universidade de Coimbra, Doutor José António Matias Lopes, Março de 2016
- Agregação em Física, Fac. Ciências e Tecnologia da Universidade de Coimbra, Doutor Orlando Oliveira, 21 e 22 de Janeiro de 2016
- Agregação em Física, Fac. Ciências da Universidade de Lisboa, Doutora Sandra Isabel Mogo, 23 e 24 de Abril de 2015
- Agregação, Fac. Ciências e Tecnologia da Universidade de Coimbra, Doutor João Manuel de Moraes Barros Fernandes, 17 e 18 de Fevereiro de 2015
- Agregação no Ramo de Física, Fac. Ciências e Tecnologia da Universidade de Aveiro, Doutor Alexandre Correia, 3 e 4 de Setembro de 2014

#### **-President of the júri:**

- Agregação em Engenharia Biomédica e Biofísica, Fac. Ciências da Universidade de Lisboa, Pedro Michael Cavaleiro Miranda, 5 e 6 de Novembro de 2014
- Agregação em Engenharia Biomédica e Biofísica, Fac. Ciências da Universidade de Lisboa, Pedro Miguel Dinis de Almeida, 25 e 26 de Setembro de 2014



**Ph.d and Master Juries:**

- Mestrado em Informática e Engenharia de Computadores, Fac. Engenharia, Universidade do Porto - "Upgrading and Enhancing the LHC Logging System", Daniel Dinis Teixeira, 2008
- Mestrado em Informática e Engenharia de Computadores, Fac. Engenharia, Universidade do Porto - "Setting up a HTC/Beowulf cluster for distributed radiation transport simulations", Fernando Joaquim Leite Pereira, 2008
- Mestrado em Informática e Engenharia de Computadores, Fac. Engenharia, Universidade do Porto - "Generic Server Implementation for Computing Resources Administration", Tiago Rodrigues Vieira Batista, 2008
- Mestrado em Engenharia Física, Fac. Ciências da Universidade de Lisboa, Projecto, Validação e Concretização do Módulo MICTP do Primeiro Nível de Filtro de Eventos do Detector ATLAS, Bruno Jesus Rodrigues Fernandes, 2009.
- Mestrado em Física, Fac. Ciências da Universidade de Lisboa, "Performance of the Prototype-2 of the ALFA/ATLAS detector at the LHC/CERN", António Pestana Morais, 2009
- Doutoramento em Astrofísica na Faculdade de Ciências da Universidade do Porto (em simultâneo com a Univerité de Limoges)- Guided Optics For Astronomical Interferometry - Askari Ghasempour Khordoni - 2010
- Doutoramento em Física pela Universidade de Lisboa - The control system of the ATLAS/TileCal - João António Tomásio Pina - 2011

**-Opponent/examiner:**

- Doutoramento em Physica Engineering pela FCT - U. Nova Lisboa and Universite de Grenoble, - Towards Cryogenic Liquid –Vapor Energy Storage Units for space applications - Josiana Prado Afonso - 2013.
- Doutoramento em Computação pela Ecole Poly. Federal de Lousanne, Suízerland, - Issues in Petabyte Data Indexing, Retrieval and Analysis - Sebastien Ponce - 2006.

**-President of the jurí of Ph.D. pannels:**

- Doutoramento em Física, FCUL, Universidade de Lisboa, 17 de Junho de 2017, Mário José Sargedas Sousa
- Doutoramento em Física, FCUL, Universidade de Lisboa, 28 de Maio de 2015, João Pedro Matos Rodrigues
- Doutoramento em Física, FCUL, Universidade de Lisboa, Raul Fernandes Luis – 27 de Fevereiro 2015

- Doutoramento em Física, FCUL, Universidade de Lisboa, Ana Lúcia Vital Belchior – 8 de Maio de 2015
- Doutoramento em Física, FCUL, Universidade de Lisboa, João Carlos Pires da Cruz – 21 de Novembro 2015
- Doutoramento em Física, FCUL, Universidade de Lisboa, Ana Canaveira Gouveia Taborda – 16 de abril Maria de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Cristina Ferreira – 24 de abril de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Liliana Lourenço Caldeira – 10 de maio de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Frederico Correia Moreira – 17 de junho de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Ana Cristina Oliveira Guilherme Buzanich – 29 de julho de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Sambino da Silva Cardoso – 27 de setembro de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Stefan Wieland – 10 de dezembro de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Alda Sofia Pessanha Sousa Moreno – 17 de dezembro de 2013
- Doutoramento em Física, FCUL, Universidade de Lisboa, Nuno Filipe Fiúza de Barros – 3 de maio de 2012
- Doutoramento em Física, FCUL, Universidade de Lisboa, Miguel Centeno Moreira – 18 de setembro de 2012
- Doutoramento em Física, FCUL, Universidade de Lisboa, Ana Maria Ferreira Paradela Catarino – novembro de 2012
- Doutoramento em Física, FCUL, Universidade de Lisboa, Marta Daniela Almeida Santos – 29 novembro de 2012

### **Scholarships:**

- 1999-2000, Cientista Convidado em DESY Cientista Convidado no “Deutsches Elektronensynchrotron (DESY)” - Coordenador do sistema de informação da experiencia HERA-B.
- Bolsa para Doutoramento: Bolsa concedida pela Fundação Calouste Gulbenkian para a preparação do doutoramento no Instituto de Física Teórica da Universidade de Utrecht, Holanda.

- Bolsa do program Fizeu da European Interferometry Initiative suportada pelo projecto OPTI-CON/FP7 da União Europeia para a estadia no Max Plank Institute em 2009.
- Bolsa do program Fizeu da European Interferometry Initiative suportada pelo projecto OPTI-CON/FP7 da União Europeia para a estadia no Max Plank Institute em 2010.

### **Visits to external Laboratories**

- 1993/94 Estadia de 10 meses no C.E.R.N., Genève.
- 1987/88 Estadia de nove meses, em no Instituto de Física Teórica da Universidade de Utrecht , Holanda.
- 1994-pesente Estadias periódicas no CERN Geneve, prefazendo aproximadamente 1 mês por ano.
- 1997-2002 Estadias periódicas no Laboratório DESY, Hamburgo, desde prefazendo aproximadamente 1 mês por ano.
- 1999-2000, Cientista Convidado em DESY Cientista Convidado no “Deutsches Elektronensynchrotron (DESY)” - Coordenador do sistema de informação da experiencia HERA-B.
- 2005-2006 Estadia de 6 meses no ESO em Garching para instalação final da câmara de ibfravermelhos de alta resolução CAMCAO
- 2009 Estadia de 3 meses no MPE Garching (Max Plank Institute for Extra-terrestrial Physic) no âmbito do desenvolvimento do instrumento GRAVITY
- 2010 Estadia de 2 meses no MPE Garching (Max Plank Institute for Extra-terrestrial Physic) no âmbito do desenvolvimento do instrumento GRAVITY

## **2 University activities**

### **2.1 Academic Positions**

- Assistente Estagiário do Departamanto de Física da Faculdade de Ciências da Universidade de Lisboa, 1985-1987.
- Assistente da FCUL Assistente do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, 1987-1991.
- Professor Auxiliar do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, 1991-2002.
- Professor Auxiliar com Agregação do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, 2002-2003.

- Professor Associado com Agregação do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, 2003-2000
- Professor Catedrático do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, from June 2012 to February 2018
- Professor Associado com Agregação do Departamento de Física da Faculdade de Ciências da Universidade de Lisboa since February 2018

#### **Participation in Juries for University Positions:**

- Juri do concurso de uma vaga de Professor Catedrático em Física Atómica da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, 2017.
- Juri do concurso de uma vaga de Professor Auxiliar para a área disciplinar de Engenharia física, da Faculdade de Ciências da Universidade de Lisboa,, 2017
- Juri do concurso para uma vaga de Professor Auxiliar em Astronomia e Astrofísica, Faculdade de Ciências da Universidade de Lisboa, 2013
- Juri do concurso de uma vaga de Professor Auxiliar em Astronomia e astrofísica ou de Física atómica e molecular ou de Física nuclear ou de Física da matéria condensada ou de Ótica, da Faculdade de Ciências da Universidade de Lisboa, 2015
- Juri do concurso de uma vaga de Professor Associado Física (Física Nuclear e de Partículas, ou Física da Matéria Condensada, ou Física Aplicada, ou Física da Radiação, ou Geofísica ou História e Ensino da Física), ou Engenharia Física (Instrumentação) da Faculdade de Ciências e Tecnologia da Universidade de Coimbra, 2016

#### **Academic Management responsibilities**

- Membro eleito do Conselho de Escola da Faculdade de Ciencias da Universidade de Lisboa desde 6 de Dezembro de 2017.
- Membro eleito do Conselho científico da Faculdade de Ciencias da Universidade de Lisboa de 2015 a Dezembro de 2017.
- Head of the Physics Department of the Faculdade de Ciencias da University of Lisboa from September 2012 to September 2015
- Coordinator of the Ph.D. in physics course at FCUL from September 2012 to September 2015
- Coordinator of the Ph.D. in Astronomy and Astrophysics course at FCUL from September 2012 to September 2015

- Member of the Executive Board of the Physics Department, Headed by Prof. F. D. Santos, and representative at C. Coordenadora FCUL em 2003/2004.
- Member of the executive board of the informatics center of FCUL, coordinated by Prof. A. Casimiro, 2005-2006.
- Member of the cometeet that has created the at DF FCUL the “Mestrado Integrado em Engenharia Física” 2010
- Member of the pedagogical cometeet of the “Mestrado Integrado em Engenharia Física” since 2010