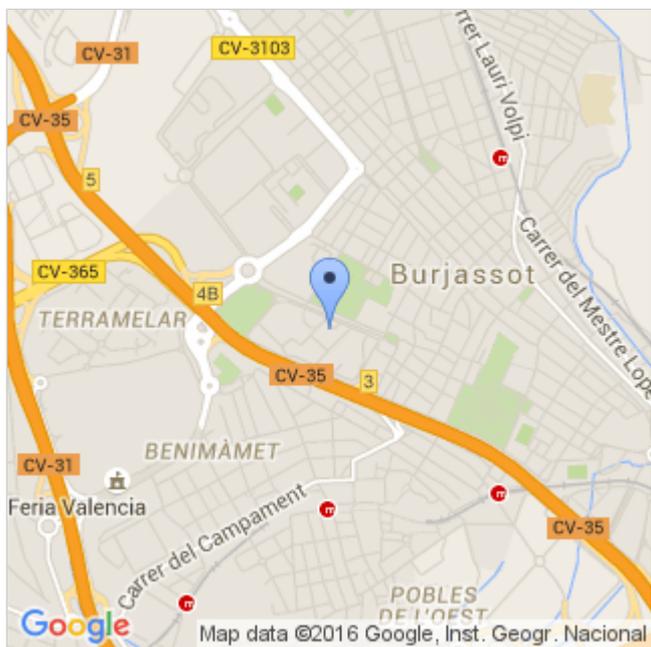


## Expression of Interest



### Contact Person/Scientist in Charge

- **Name and surname:** José-María Martí
- **Email:** jose-maria.marti@uv.es

### Universitat de València – Estudi General

#### Department / Institute / Centre

- **Name:** Departamento de Astronomía y Astrofísica / Universitat de València
- **Address:** Doctor Moliner, 50. 46100 Burjasot, Valencia, Spain
- **Province:** Valencia

#### Research Area

- Physics (PHY)

### Brief description of the institution:

The University of Valencia (UV) stands out as one of the main public research organisations in Spain, with more than three thousand researchers integrated in 90 departments, 19 institutes and other research units belonging to social, biomedical, human, experimental and formal sciences. Along with human resources, the UV state-of-art premises and facilities, guarantee the quality of a vast scientific and technological offer available to the service of society.

The UV is a leading academic organisation at national level. Shanghai 2014 ranks UV among the top 200-300 universities in the world, and 4th best university in Spain. As per URAP 2014, the University of Valencia ranks third among all Spanish universities, first in Valencia region and 193th in the world.

University of Valencia is participating in several European projects under the subsequent RTD European Framework Programmes (I to VIII) and other European programmes: Erasmus, Leonardo, Life+, Cost, Third Health Programme, EEA Grants, Daphne III, Creative Europe... acting as several roles: coordinator, contractor, associated contractor, member, host institution... having experience in the development and management of more than 300 European projects as a whole.

UV participated in 78 community actions financed under the VII FP (CSA, Collaborative Projects, MSCA,

ERC grants, etc.) with the role of coordinator in 29 of them. Currently, we are participating in 20 projects financed under Horizon 2020, with the role of coordinator in 8 of them, and 16 projects under several European Programmes other than H2020

**Brief description of the Centre/Research Group (including URL if applicable):**

At the Computational Astrophysics and Cosmology (CompAC) Group of the Department of Astronomy and Astrophysics of the University of Valencia we conduct research devoted to understand the underlying physics and dynamics of some of the most representative scenarios in the fields of Relativistic Astrophysics and Cosmology. To achieve these goals our work strongly relies on the analysis of the most relevant physical processes, multidimensional numerical magneto-hydrodynamical and radiative transfer simulations. Current senior members of the group are J.A. Font, J.M. Ibáñez, J.M. Martí, M. Perucho, and V. Quilis.

**Project description:**

Theoretical/numerical-based research projects along any of the following lines are welcome: extragalactic jets, relativistic flows from massive binary stars, physics of compact stars, gravitational radiation, formation and evolution of galaxies and galaxy clusters, large scale structure of the Universe.

**Applications**

Applicants should send to the contact person a copy of their CV, two reference letters and a brief description of the project to be developed during the period of the fellowship.

Deadline: July, 29<sup>th</sup>, 2016