



## AYUDAS RAMÓN Y CAJAL CONVOCATORIA 2018

### Turno de personas con discapacidad

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**Referencia:** RYC2018-026129-I  
**Área Temática:** Ciencias físicas  
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#### Título:

Física de las Protuberancias Solares

#### Resumen de la Memoria:

<ESTA PROPUESTA ES PARA OPTAR A LAS 4 PLAZAS DEL TURNO DE DISCAPACIDAD>

I started my PhD in 2005 in seismology of the solar corona under the supervision of Dr J. Terradas and Prof R. Oliver at UIB with an FPI fellowship. In 2006 I approved my master's thesis with excellent marks. In 2009, I obtained my PhD with the maximum qualification: cum laude. In 2009 I moved to NASA GSFC as a postdoc at the Space Weather Laboratory. I did my research abroad for 3 years. In July 2012 I started my second postdoc at the IAC until now. Both NASA GSFC and IAC are prestigious international centres of Solar Physics research. I am also official NASA collaborator since July 2012. Since summer of 2018, I am a Severo Ochoa postdoc at the IAC.

Solar prominences are relevant for human being because they are the birthplaces of solar eruptions and coronal mass ejections that can impact Earth producing magnetic storms. The global structure of prominences and the mechanisms that drive their eruptions are not well understood. The aim of my research is to advance our understanding of the global structure of prominences and the mechanisms responsible for their destabilization. I have developed a new branch of the seismology based on the very common Large-Amplitude Oscillations (LAOs). This allowed me to open a new window into prominence structure by means of large-amplitude prominence seismology. Using this technique, key physical properties of prominences can be inferred that is not accessible through other approaches. In addition, many filament eruptions are observed to be preceded or accompanied by LAOs, for reasons that remain obscure. LAOs offer additional information on the physical processes taking place in the erupting prominences. These observations tell us that LAOs can be used as a probe of the changing structure of prominence during its eruption.

I am an expert on Solar Prominences and the leader of the research on Seismology on Solar Prominences with important international visibility and leadership. In my work (31 papers, 16 as first author, 417 citations, h-index: 13), I made important contributions in solar physics with the development of complex modelling and observations. It deserves to be mentioned that in most of my publications I have developed new models to explain the observational evidence. I am the leading author of my most cited papers (first is a three-author paper with 58 citations and second is two-author paper with 40 citations). I have published 2 ApJ letters and 1 ApJ Supplement Series works among others.

I am a scientist with a high international reputation. I have established stable collaborations with members of the most important institutes and universities in Solar Physics. I am a relevant researcher for NASA where I am an official collaborator. I have been invited to give 7 seminars/talks including 2 invited 2 invited reviews. I have been selected twice to be PI of 2 International Space Science Institute (ISSI) teams on seismology with 11 scientists each. Also, I have participated in 3 ISSI teams during 2018 and I have been co-chair of BUKS2018 workshop. I am the principal investigator of several research projects. I am co-director of a PhD of a recipient of a Beca-R fellowship at IAC. I have supervised 4 master theses at IAC and I had an important public outreach activity during my career.

#### Resumen del Currículum Vitae:

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My main research is in Solar Physics but also includes work in Gravitational Waves. The quality indicators are referred to my research excluding the big LIGO Scientific Collaboration (LSC) publications. The quality indicators including the LSC papers are between parentheses.

Source NASA ADS:

Number of Supervising PhD Theses: 1  
Number of Master's Theses: 4  
Total Number of Publications: 31 (40 including LSC)  
Number of publications in the first quartile: 25 (34 including LSC)  
Total Number of Citations: 417 (1008 including LSC)  
H-Index: 13 (18 including LSC)



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g-index: 20 (31 including LSC)

Other indicators

- 2 Letters in Astrophysical Journal Letters
- 1 Supplement Series in Astrophysical Journal Supplement Series
- 35 peer-reviewed publications of which 15 as the first author
- 7 invited talks/seminars in international conferences and laboratories around the world. 2 are invited reviews. 37 oral presentations around the world
- 4 research projects as PI, 3 as Co-I (1 at NASA) and 7 more where my contribution is crucial.



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**Nombre:** MUÑOZ SEMPERE, DANIEL  
**Referencia:** RYC2018-024206-I  
**Área Temática:** Cultura: filología, literatura y arte  
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#### Título:

Literatura española, Siglos XVIII y XIX

#### Resumen de la Memoria:

My research focuses on Spanish literature from the XVIII and XIX centuries, with special attention to the articulation of images and themes that shaped the Romantic image of Spain:

1. The literary image of the Spanish Inquisition, and the way in which textual representations of the tribunal influenced a series of debates about Spanish identity and the development of early Spanish Liberalism in the Age of Revolutions. I have published extensively in this area which emerged out of my own PhD thesis, including the edition of a book of the memoirs of an inquisitorial escapee, the edition of a special issue of a journal, two chapters on inquisitorial censorship (including one in progress for the forthcoming Routledge Companion to the Hispanic Enlightenment), and four peer-reviewed journal articles. My main interest here has been the study of oppositional writing to the Inquisition between the XVIII and the XIX centuries, a literary tradition that was in a constant dialogue with transnational images of the Tribunal (the Black Legend, testimonial literature, the Gothic novel) but also with the political and historical discourses that emerged around the abolition debates. This research line touches upon issues such as censorship or the relation between fiction, politics and historiography, but it also fed my most current interest in the transnational character of some of the literary debates behind Spanish Liberal nationalism.

2. The Spanish Liberal exile in London in the first half of the 19th century, and their role in cultural mediation and in the configuration of Liberal images about the Spanish past. This is a project that has evolved from an early interest in building a comprehensive picture of the literary activities of Spanish refugees in London to a more recent angle focused on the role played by emigres in the creation of traveling images of Spanish culture, and how they contributed to an image of Spanish difference, both in Spain and in Europe. The evolution of this topic stems from my early interest on the literary image of the Inquisition and the ways in which it was deployed in intellectual debates about the nation. I co-organised an international congress on the topic in KCL in 2009, a symposium that gave rise to the current Network of XIX Century Hispanists. My expertise on the London exiles has attracted invitations for book reviews and for plenary conferences, and it has resulted in one co-edition of a volume of collected essays, three book chapters and two journal articles.

3. Costumbrismo and social observation. My interest in the articulation of literary images has led me to investigate the foundations and precedents of Romantic conceptions of identity. Influenced by the work on ancien régime selfhood by authors such as Terry Castle and Dror Wahrman, but also in line with current theoretical developments around the concept of costumbrismo, I have undertaken research on the masquerade ball as a trope to explore the interaction between self and society in art and literature between the XVIII and XIX centuries. I was invited to present my work in this area at a workshop on literature of social observation at New York University in 2015, and I have developed some of these issues in my edition of Larra artículos de costumbres.

#### Resumen del Currículum Vitae:

I am a Spanish academic with over 10 years of postdoctoral experience teaching and researching in UK higher education. In 2002, after completing postgraduate studies at the University of Cádiz, I won a doctoral award from the UK's Arts and Humanities Research Council (AHRC) which allowed me to complete a PhD in Hispanic Studies at the University of Birmingham under the supervision of Derek Flitter. In January 2007, shortly after the submission of my thesis, I joined King's College London as a full-time lecturer in Modern Spanish Studies.

Having secured a permanent academic position early in my career, most of my research has been conducted while employed at King's College London, an institution ranked among the top 25 universities in the world. Since my arrival at King's I have developed an extensive range of international collaborators via my membership of several research networks such as the Grupo de Estudios del Siglo XVIII (Universidad de Cádiz); Anglo-Hispanic Horizons; the Nineteenth-Century Hispanists Network (which emerged in 2011 from a conference I co-organised at King's College) and the Travelling concepts strand of the AHRC's major Open World Research Initiative project Language Acts and Worldmaking ([www.languageacts.org](http://www.languageacts.org)). Via this international projection I have taken part in 4 projects funded by the Spanish State agencies, and I have presented my research at over 20 conferences and research seminars in Europe and the USA (5 of them via direct invitation, including one keynote address). I have authored one monograph, 2 scholarly editions of literary texts, 3 editions of scientific volumes, 9 book chapters and 11 articles in peer-reviewed journals. Much of my recent research output has been published in high-impact journals and international publishers such as Bulletin of Spanish Studies, Comparative Critical Studies, Routledge, Palgrave



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Macmillan, Tamesis or Bloomsbury. At King's College, I am also a member of the steering committee of the Centre for Eighteenth-Century Studies, and my expertise in the area has been sought to write references for candidates for the Leverhulme Trust research grants. My research outputs have been selected for the last three national research assessments (RAE 2008, REF 2014 and pre-assessed positively for REF 2021).

I have directed two doctoral theses (including one that won the AHGBI publication prize) and I have acted as co-supervisor for another four. My supervisory experience also includes several Master of Arts theses, final-year undergraduate dissertations and the tutoring of candidates to the European doctorate in research stays. I have taught well over 1000 hours at all levels of study (including guest lectures at the University of Cambridge) and between 2013 and 2017 I was intercollegiate examiner for the University of London (Birkbeck College). I am a member of the editorial boards of Ediciones Alfar, Athenaica Literatura Española de los Siglos XVIII y XIX and Cuadernos de Ilustración y Romanticismo, and I have acted as peer reviewer for Cuadernos Dieciochistas, Bulletin of Spanish Studies, Palgrave Communications, Cincinnati Romance Review and Tamesis Books. I have also contributed to public outreach and impact, via consultancy work for the BBC and the organization of cultural events in London in collaboration with the Spanish Embassy.