

RESUMÉ

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Current research lines

- Distributed and High Performance Computing (HPC, Grid, Cloud, etc.)
- Fault tolerance techniques (checkpointing, scheduling, etc.)
- Dynamic allocation of tasks in heterogeneous distributed computing infrastructures
- Development of codes in Plasma Physics, Irradiation effects on materials, Physics of Materials, Bioinformatics, etc.
- Plasma Physics (experimental spectroscopy, theoretical models, fusion)

Academic merits

- Ph. D. in Physics by Universidad Complutense de Madrid (*cum laude*) in 2004.
- Accredited as Contratado Doctor (≈Associate Professor) by the Spanish National Agency for Quality Assessment and Accreditation.
- Postdoctoral EU Marie Curie fellowship at the NUI Galway (Ireland).
- Postdoctoral Spanish Juan de la Cierva fellowship
- Four (4) theses supervised.

Work experience

[July 2010 to present] Senior Researcher at Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (CIEMAT). Duties include Scientific Distributed Computation research and R&D Projects management.

[October 2012 to present] Honorary Fellow at Univ. Complutense de Madrid in the Physics of Materials Department. Duties include research collaboration and lectures.

[October 2006 to September 2012] Adjunct Faculty at Univ. Complutense de Madrid in the Physics of Materials Department, lecturing in Electronics, Electricity and Magnetism.

[October 2005 to June 2010] Researcher at Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (CIEMAT). Duties include Scientific Distributed Computation research and R&D Projects management.

[September 1999 – September 2006] Researcher at Univ. Complutense de Madrid in the Atomic, Molecular and Nuclear Physics Department. Duties include development of codes for calculations in Atomic Physics and Spectroscopic parameters (FORTRAN y C), fitting and design of multiple detectors systems and electronic systems associated to experimental set-ups (Laser Produced Plasmas), and analysis of spectra with numeric methods.

[June 2002 – December 2004] Data Network Management at Spanish Dirección General de la Policía. Duties include installation, configuration, management and improvement of a data network, Cisco abilities, Passport abilities, Sun Solaris abilities, etc.

[September 1990 – June 2000] Teacher at Spanish High School Real Colegio de Alfonso XII

[June 1989 – June 1990] Monitor at College of the Holy Child Jesus (UK)

Abroad stays

- Institute of Solid State Physics of the Bulgarian Academy of Sciences (Bulgaria)
- University of Lund (Sweden)
- National University of Ireland-Galway (Ireland)
- Dublin City University (Ireland) – Invited

Experience as Reviewer

- Evaluator in the following calls for funding projects
 - International Committee of Experts for the evaluation of the Marie Skłodowska-Curie Actions (EU PEOPLE-FP7 and H2020) since 2011
 - European Commission–European Research Area (ERA) Agreement with other Regions (ERAfrica)
 - Agencia Nacional de Evaluación y Prospectiva (ANEP, Spanish National Evaluation and Prospective Agency)
 - UCD ENERGY21 Programme
 - CEDIA CEPRA2011
 - Pontificia Universidad Católica del Perú
- Referee of indexed journals
 - Journal of Parallel and Distributed Computing
 - Journal of Physics B
 - Journal of Physics D
 - Journal of Plasma Sources Science and Technology
 - International Journal of Grid and High Performance Computing
 - Journal of Systemics, Cybernetics, and Informatics
 - Revista Iberoamericana de Sistemas, Cibernética e Informática
- Editor of the Chinese Journal of Biology
- 29 times member of the Program Committee of an International Conference
- 5 times member of a thesis dissertation committee

Scientific publications

- 30 articles in JCR journals (cited 208 times, 121 in the latest 5 years)
- 76 papers in double-blind peer reviewed Proceedings referenced in ISI WoK, Scopus, etc. (cited 356 times, 227 times in the latest 5 years)
- 4 books (one as author and 3 as Editor)
- *h*-factor = 9; *i10*-factor = 8; Q1 factor = 0.61
- 130 contributions in international conferences with 9 Invited Plenary Talks and 75 oral presentations

Funded projects

- Participation in 39 funded projects:
 - European Commission, 23
 - Spanish R&D competitive calls (Ministry of Science and Innovation), 7
 - Regional R&D competitive calls (Comunidad de Madrid), 2
 - University R&D competitive calls (Universidad Complutense de Madrid), 3
 - Private funding, 4
- Project Coordinator of 2 national R&D projects
- Spanish national representative at the Latin American Giant Observatory (LAGO)
- Managerial duties in 8 European Commission co-funded Projects: Work Package Manager and Member of the Technical/Management Board
- Member of the SCALAC (Servicio de Cómputo Avanzado para América Latina y el Caribe) Committee
- Member of the IT Development Committee of the Latin American and Caribbean Academic Network (TICAL _ RedCLARA).