

## PERSONAL DATA

Juan Ignacio Climente Plasencia, Post-doctoral researcher.

**Born** 27/03/1978 in Segorbe (Spain).

**Citizenship:** Spanish.

**Spoken languages:** Spanish (mother tongue), English (fluent), Italian (fluent), Polish (basic)

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## EDUCATION

- **Graduated in Chemistry** at Universitat Jaume I in 2000. Student of the Year Award.
- **M.Sc.** in Theoretical and Computational Chemistry at Universitat Jaume I (2003).
- **Ph.D.** in Theoretical and Computational Chemistry. Universitat Jaume I (March 2005). Ph.D. supervisor: Prof. J. Planelles. Title of Thesis: "Integration of the Multi-band k-p Hamiltonian in Axial Symmetry". Ph.D. of the Year on Basic Sciences.

## PROFESSIONAL EXPERIENCE

### TEACHING

2008-2011: Teaching assistant at Universitat Jaume I.

2002-2004: Teaching assistant at Universitat Jaume I.

I have lectured on "Computer Science Applied to Chemistry", "Advanced Experimentation in Physical Chemistry" and "Group Theory for Chemists".

### RESEARCH POSITIONS

2008-2013: Ramon y Cajal tenure track at Universitat Jaume I (Castelló, Spain).

2005-2008: Marie Curie post-doctoral fellow at CNR-INFM S3 Center (Modena, Italy).

1999-2005: Pre-doctoral research fellow at Universitat Jaume I (Castelló, Spain).

### RESEARCH EXPERIENCE

Numerical and analytical methods for effective mass simulations of electronic and optical properties of quantum dots. Development of configuration interaction codes for strongly correlated systems. Effects of spin-orbit and hyperfine interaction in quantum dots. Electron-phonon coupling in zero-dimensional nanostructures.

### VISITING STAYS

**2010:** S3 Center of Nanoscience (Modena, Italy), working with Prof. G. Goldoni (1 month).

**2009:** National Chaio Tung University (Hsinchu, Taiwan), working with Prof. Shun-Jen Cheng (2

months). **2007:** Institute of Microstructural Sciences -National Research Council of Canada- (Ottawa, Canada), working with Dr. P. Hawrylak (2 months). **2004:** AGH University of Science and Technology (Krakow, Poland), working with Prof. J. Adamowski. (2 months). **2003:** Institute of Microstructural Sciences -National Research Council of Canada- (Ottawa, Canada), working with Dr. P. Hawrylak (3.5 months). **2002:** Institute of Physics of Nicholas Copernicus University (Torun, Poland), working with Prof. W. Jaskólski. (3 months). **2001:** Institute of Physics of Nicholas Copernicus University (Torun, Poland), working with Prof. W. Jaskólski. (3 months).

## **PUBLICATIONS**

He has published around 60 articles in international peer-reviewed journals, including 1 PRL, 1 APL, 1 Small and 24 PRB. His work has been cited over 400 times, and his *h*-factor is 14. His works have been done in collaboration with several international theoretical and experimental groups, mainly those led by P. Hawrylak (NRC, Canada), G. Goldoni (INFM S3, Italy) and M. Doty (Univ. Delaware, USA).

## **INVITED TALKS**

- Workshop on Optics of Nanostructures, (UMK, Torun, Poland), October 2008.
- Virtual Conference of Nanoscale Science and Technology (Fayetteville, Arkansas, USA), July 2008.
- VI Reunión del Grupo Especializado de Física del Estado Sólido (Zaragoza, Spain, February 2010).
- Fall Meeting Material Research Society (Boston, December 2010).
- International Workshop on Hybrid Excitations in Nanomaterials (Modena, Italy). December 2011.

## **OTHERS**

User and project manager of Cineca Supercomputing Center.