

PERSONAL DATA

Name: Carlos Segarra Ortí

Position: Ph.D. student

Born: 05/06/1987 in Albocàsser (Spain)

Citizenship: Spanish

Spoken languages: Catalan (mother tongue), Spanish (fluent), English (C1) and French (A2).

Address:

Research laboratory TC1208DL,
Departament de Química Física i Analítica
Universitat Jaume I
12080 Avda. Sos Baynat s/n, Castelló, Spain.
Telephone No.: +39 964.72.8075

E-mail: csegarra@uji.es

EDUCATION

- **Graduated in Chemistry** at Universitat Jaume I in 2011.
- **Master's Degree** in Theoretical Chemistry and Computational Modelling (2013).
- **Ph.D.** in Theoretical Chemistry and Computational Modelling. Universitat Jaume I. (In progress) Ph.D. supervisors: Prof. J. Planelles & J.I. Climente.

PROFESSIONAL EXPERIENCE

RESEARCH POSITIONS

- **2012-Present:** Pre-doctoral research fellow in Theoretical and Computational Chemistry at Universitat Jaume I (Castelló, Spain).
- **2011-2012:** Collaboration as a student researcher in the project: "Semiconductor nanocrystals with axial symmetry: electronic correlation and spatial, dielectric, and magnetic confinement." at Universitat Jaume I (Castelló, Spain).

TEACHING

2014-2016: Teaching assistant at Universitat Jaume I.

I have lectured on "Physical Chemistry III" (Lab. sessions)

RESEARCH EXPERIENCE

Numerical methods for effective mass simulations of electronic and optical properties of semiconductor quantum dots. Effects of spin-orbit interaction and spin relaxation of electrons and holes in zero-dimensional nanostructures.

VISITING STAYS

- **2013:** Condensed Matter Theory Group (CMT), Universiteit Antwerpen, Antwerp, Belgium (3 months)
- **2015:** Sergio E. Ulloa's group, Ohio University, Athens (OH), USA. (3 months)

PUBLICATIONS

- He has published 7 articles in international peer-reviewed journals and 1 book chapter.
ORCID ID: orcid.org/0000-0003-2979-1961