

CURRICULUM VITAE

Jon Zubeltzu Sese

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Summary of Qualifications

My knowledge and skills are grounded by theoretical physics research, teaching experience, and participation on events of science divulgation. My interests involve research on computational atomistic simulations based on classical force fields and density functional theory methods, science divulgation, and teaching.

Education

- 2007-2011 **Physics** degree in the Universidad Autonoma de Barcelona, Spain.
- 2011-2012 **Master** in Nanoscience in the University of the Basque Country, Spain.
- 2013-2017 **PhD** Physics of Nanostructured and Advanced Materials by the University of the Basque Country.
Title: Theoretical simulations of nanoconfined water.
Supervisor: Prof. Emilio Artacho Cortés.
Defense: 05/06/2017, Cum Laude mention.
- 2016-2017 **Master** in Public School Teaching of Chemistry and Physics in the International University of Valencia, Spain.

Publications

- **Zubeltzu, J.**, Chuvilin, A., Corsetti, F., Zurutuza, A., & Artacho, E. (2013). Knock-on damage in bilayer graphene: indications for a catalytic pathway. *Physical Review B*, 88(24), 245407. This publication was selected as “Editor’s Suggestion”.
- Corsetti, F., **Zubeltzu, J.**, & Artacho, E. (2016). Enhanced configurational entropy in high density nanoconfined bilayer ice. *Physical review letters*, 116(8), 085901.



- **Zubeltzu, J., Corsetti, F., Fernández-Serra, M. V., & Artacho, E. (2016).** Continuous melting through a hexatic phase in confined bilayer water. *Physical Review E*, 93(6), 062137.
- **Zubeltzu, J., & Artacho, E. (2017).** Simulations of water nano-confined between corrugated planes. *The Journal of Chemical Physics*, 147(19), 194509.

Conferences

- **Poster** in the *16th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods* in Trieste, Italy (2013).
- **Poster** in the *ImagineNano 2013* in Bilbao, Spain (2013).
- **Poster** in the *Atomic structure of nanosystems from first-principles simulations and microscopy experiments* in Helsinki, Finland (2013).
- **Talk** in the *Conference WaterEurope* held in Zaragoza, Spain (2014).
- **Talk** in the *Psi-K Conference 2015* held in Donostia, Spain (2015).
- **Poster** in the *IX GEFES Meeting* held in Cuenca, Spain (2015)
- **Talk** in the *Course XI: Frontiers in Water Biophysics 2017* held in Erice, Italy (2017).

Science dissemination events

- **Stand participation** in the *13th International ZientziaAstea* in Donostia, Italy (2014).
- **Stand participation** in the *14th International ZientziaAstea* in Donostia, Italy (2015).
- **Organizer** of the *1st PhD nanoGUNE Conference* in Donostia (2016).



- **Speaker** at the *Fenomenoak Tailerra* organized by Elhuyar Fundazioa in Bilbo (2017).

Languages

Euskara: Advanced level, mother tongue and possession of the EGA title.

Spanish: Advanced level, mother tongue.

English: Advanced level, I possess the Advanced Certificate of English (C1). The master in Nanoscience, PhD, conference talks, and writing of papers were entirely done in english.

French: B2 level. Fluent writing/reading/speaking.

Skills & Interests

My skills and interests are mainly based on the scientific research and the divulgation of science to the public. During my PhD I have studied the response of graphene to an electronic radiation and the properties of water under strong confinement, both by computer simulations. The simulations were based on Density Functional Theory by the SIESTA code and classical force field methods with LAMMPS. These calculations were carried out mainly in supercomputer installations: ARINA in Bilbao (Spain) and MareNostrum in Barcelona (Spain). C and Fortran programming is known.