

GUADALUPE JIMÉNEZ-SERRATOS

Computational Scientist
Hartree Centre | Science and Technology Facilities Council
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RESEARCH

- My research is focused on the modelling and molecular simulation of soft matter applied to systems of industrial interest.
- In constant collaboration with teams across the Hartree Centre, ISIS (STFC RAL), academic groups, and industrial partners.
- Current projects are funded by EPSRC, HNC DI Explore, IBM, and Unilever.

molecular dynamics · Monte Carlo molecular simulations · dissipative particle dynamics
coarse-grained models · SAFT equation of state · code development
self-assembling systems · polymers · confined systems · asphaltene aggregation

EXPERIENCE

- 2020-Present. **Computational scientist.**
Hartree Centre, STFC Daresbury Laboratory, UKRI
Line manager: Dr. David J. Bray and Richard L. Anderson
 - 2013-2020. **Research Associate.**
Department of Chemical Engineering, Imperial College London, U.K.
Line manager: Prof. Erich A. Müller
 - 2017, 2018, 2019. **Consultant for ConocoPhillips.**
Led by Prof. Erich A. Müller. Imperial College London.
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EDUCATION

- 2009-2013. **PhD. in Physics.**
Thesis: *Primitive models of self-assembling systems using discontinuous and long-range potentials.*
Thesis advisor: Prof. Alejandro Gil Villegas Montiel. University of Guanajuato, Mexico.
 - 2006-2008. **Masters in Science (Physics).**
Thesis: *Dynamic light scattering (DLS) in worm-like micelles.*
Thesis advisor: Prof. Rolando Crisóstomo Castillo Caballero. National Autonomous University of Mexico, Mexico.
 - 2000-2005. **B.Sc. in Physics Engineering.**
Thesis: *Modelling of calorific properties for asphaltene primitive models.*
Thesis advisor: Prof. Alejandro Gil Villegas Montiel. University of Guanajuato, Mexico.
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AWARDS AND MEMBERSHIPS

- **Member of the Mexican National Researchers System (SNI) Level 1 (2015-present).**
- UKRI In Year Award, and UKRI Instant Recognition Award (2021).
- Member of the Mexican Soft Condensed Matter Network (2018).
- Academic Trajectory Award, PhD in Physics, University of Guanajuato, Mexico (2013).