

# Soft.Matter@PT 2015

## Ana Célia Vila Verde

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### Expertise: Interfaces and wetting of simple fluids and liquid crystals

	Colloids	Liquid Crystals	Polymers and Gels	Interfaces, surfactants	Foams, emulsions	Granular materials	Biological	Other (specify)
Experimental								
Computacional				✓			✓	
Theoretical								

### Description of expertise:

- Computational.
- Classical simulations at the all-atom or coarse-grained level of proteins, lipids, water and aqueous solutions of inorganic ions.
- Classical, all-atom, simulations of aqueous interfaces.

### Selected Publications (max 5):

- *Cooperative slowdown of water rotation near densely charged ions is intense but short-ranged*, [\*J. Physical Chemistry B\* \(2013\), vol. 117, 10556.](#)
- *Statics and dynamics of free and hydrogen-bonded OH groups at the air/water interface*, [\*J. Physical Chemistry B\* \(2012\), vol. 116, 9467.](#)
- *Ultrafast reorientation of dangling OH groups at the air-water interface*, [\*Physical Review Letters\* \(2011\), vol. 107, 116102.](#)
- *Investigating the specificity of adsorption onto gold of gold-binding peptides using molecular dynamics simulations* [\*Biomacromolecules\* \(2009\), vol. 10, 2118.](#)
- *Simulation study of micelle formation by bile salts*, [\*Soft Matter\* \(2010\), vol. 6, 3815](#)