

Soft.Matter@PT 2015

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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:

- Theoretical and Computational.
- Calculation of bulk and interfacial properties (surface tension, contact angle, and wetting properties, adsorbed films) using microscopic (DFT) and mesoscopic (Landau and Landau-de Gennes) theories.
- Numerical calculations (FEM, Lattice Boltzmann) and computer simulations (Monte Carlo and Molecular Dynamics) of equilibrium and non-equilibrium configurations of complex fluids (colloidal suspensions, gels and liquid crystals).

Selected Publications (max 5):

- [The effect of anchoring on nematic flow in channels](#), V. M. O. Batista, M. L. Blow and M. M. Telo da Gama, *Soft Matter*, DOI: 10.1039/C5SM00249D (2015).
- [Adsorbed films of three-patch colloids: Continuous and discontinuous transitions between thick and thin films](#), C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. *Physical Review E* 90, 032302 (2014).
- [Kinetic roughening of aggregates of patchy colloids with strong and weak bonds](#), C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama, *Europhysics Letters* 107, 56002 (2014).
- [Particle selection through topographic surface patterns in nematic colloids](#), Z. Eskandari, N.M. Silvestre, M.M. Telo da Gama, and M.R. Ejtehadi, *Soft Matter* 10, 9681 (2014).
- [Structure of the cholesteric-isotropic interface](#), *Soft Matter* 10, 9399 (2014).