

Soft.Matter@PT 2015

Pedro Patrício

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Expertise: Geometrical instabilities in elasticity; Dynamics of complex fluids; Mechanics of Cells

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

Description of expertise:

- Theoretical and Computational.

Selected Publications (max 5):

- *Living bacteria rheology: Population growth, aggregation patterns, and collective behavior under different shear flows*, P. Patrício, P.L. Almeida, R. Portela, R.G. Sobral, I.R. Grilo, T. Cidade and C.R. Leal, *Physical Review E* 90, 022720 (2014).
- *First curl, then wrinkle*, A. C. Trindade, J. P. Canejo, P. I. C. Teixeira, P. Patrício, and M. H. Godinho, *Macromol. Rapid Commun.* Vol. 34, 1618–1622 (2013).
- *Complex fluids at complex surfaces: simply complicated?*, P. Patrício, J. M. Romero-Enrique, N. M. Silvestre, N. R. Bernardino and M. M. Telo da Gama, *Mol. Physics*, Vol. 109, 1067 (2011).
- *Geometrically-controlled twist transitions in nematic cells*, P. Patrício, M. M. Telo da Gama, and S. Dietrich, *Phys. Rev. Lett.*, Vol. 88, 245502 (2002).
- *Dynamics of singularities in a constrained plate*, A. Boudaoud, P. Patrício, Y. Couder, and M. Ben Amar, *Nature*, Vol. 407, 718-720 (2000).