

# Soft.Matter@PT 2015

## Pedro Marques de Almeida

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**Expertise:** Liquid crystals and their applications, Electro-optics, Solid state NMR.

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

### Description of expertise:

- Fundamental studies of Liquid crystals.
- Development and optimization of liquid crystal applications.
- Study of liquid crystalline polymers.
- Solid state NMR, Rheo-NMR.

### Selected Publications (max 5):

- *Deuterium NMR studies of orientational order in Cellulosic network Micro Fibers*, *Macromolecules*, 43, 5749 (2010).
- *Liquid crystal beads constrained on thin cellulosic fibers: electric field induced microrotors and N-I transition*, *Soft Matter*, 8, 3634 (2012).
- *A cellulose liquid crystal motor: a steam engine of the second kind*, *Scientific Reports*, 3, 1028 (2013).
- *Liquid Crystal Necklaces: Cholesteric Drops Threaded by Thin Cellulose Fibres*, *Soft Matter*, 9, 7928 (2013).
- *Y. Geng, P.L. Almeida, G. Feio, J.L. Figueirinhas and M.H. Godinho, "Water Based Cellulose Liquid Crystal System Investigated by Rheo-NMR"*, *Macromolecules*, 46, 4296 (2013).