

# Soft.Matter@PT 2015

## Vera M. O. Batista

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### Expertise: Flow of liquid crystals and nematic liquid crystal drops on fibers

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

### Description of expertise:

- Theoretical and Computational.
- Lattice-Boltzmann simulations
- Monte Carlo simulations, free energy calculations, shape deformation of colloids.

### 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, 2015, DOI: 10.1039/C5SM00249D.
- Crystallization of deformable spherical colloids, Vera M.O. Batista and Mark A. Miller, Physical Review Letters, 105, 088305 (2010)