

Soft.Matter@PT 2015

Nuno M. Silvestre

Institution: CFTC - University of Lisbon

E-mail: nmsilvestre@fc.ul.pt

Web: http://cftc.fc.ul.pt/membro.php?username=nuno_silvestre

ResearcherID: G-5098-2010

LinkedIn:

ResearchGate: https://www.researchgate.net/profile/Nuno_Silvestre

Expertise: Liquid crystals; Liquid crystal colloids; Interfaces of liquid crystals; Confined systems

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

Description of expertise:

- Theoretical and Computational.
- Finite Elements Methods with Adaptive Meshing
- Lattice Boltzmann Methods
- Pair-wise interactions of colloidal particles in liquid crystals
- Colloid-wall interactions in liquid crystals
- Interfacial phenomena of liquid crystals
- Confined liquid crystal systems

Selected Publications (max 5):

- *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).
- *Towards template-assisted assembly of nematic colloids*,
N.M. Silvestre, Q. Liu, B. Senyuk, I.I. Smalyukh, and M. Tasinkevych,

Phys. Rev. Lett. 112, 225501 (2014).

- *Liquid crystals boojum-colloids*,
M. Tasinkevych, N.M. Silvestre, and M.M. Telo da Gama,
New J. Phys. 14, 073030 (2012).
- *Structure of the cholesteric-isotropic interface*,
N. R. Bernardino, M. C. F. Pereira, N. M. Silvestre, and M. M. Telo da Gama,
Soft Matter **10**, 9399 (2014).
- *Nematic wetting and filling of crenellated surfaces*,
N.M. Silvestre, Z. Eskandari, P. Patricio, J.M. Romero-Enrique, M.M. Telo da Gama,
Phys. Rev. E 86, 011703 (2012).