

# Soft.Matter@PT 2015

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Institution: Departamento de Física da Universidade de Aveiro and Institute of Nanostructures, Nanomodelling and Nanofabrication (I3N)

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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								
Computational								X
Theoretical								X

### Description of expertise:

- Phase diagram and free-energy calculations
- Physics of Complex Systems
- Monte Carlo Methods.

### Selected Publications (max 5):

- Emergence of social structures via preferential selection, Adam Lipowski, Dorota Lipowska, and Antonio Luis Ferreira, Phys. Rev. E 90, 032817 (2014)
- Critical behavior of a tumor growth model: Directed percolation with a mean-field flavor, Lipowski, Adam; Ferreira, Antonio Luis; Wendykier, Jacek, Phys. Rev. E, 86, 4, 041138 (2012)
- Determination of the solid-fluid coexistence of the n-6 Lennard-Jones system from free energy calculations, Sousa, J. M. G.; Ferreira, A. L.; Barroso, M. A., J. Chem. Phys. 136,174502 (2012)

- Temperature Dependence of the Henry's Law Constant for Hydrogen Storage in NaA Zeolites: A Monte Carlo Simulation Study, Sousa, Joao Miguel; Ferreira, Antonio Luis; Fagg, Duncan Paul; et al., J. Nanoscience and Nanotechnology, 12, 6785-6791 (2012)
- Statistical mechanics model of angiogenic tumor growth, Ferreira, Antonio Luis; Lipowska, Dorota; Lipowski, Adam, Phys. Rev. E, 85, 010901 (2012)