

# Soft.Matter@PT 2015

## José Nuno Canongia Lopes

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### Expertise: Molecular dynamics

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

### Description of expertise:

- Molecular dynamics simulation.
- Nano-segregation in ionic liquids.
- Force field development.

### Selected Publications (max 5):

- *Structure and Aggregation in the 1-Alkyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquid Homologous Series*, [\*Journal of Physical Chemistry B\*, 118, 567 \(2014\)](#).
- *Surface tension of ionic liquids and ionic liquid solutions*, [\*Chemical Society Reviews\*, 41, 829 \(2012\)](#).
- *High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids*, [\*Green Chemistry\*, 12, 1715 \(2010\)](#).
- *Molecular force field for ionic liquids IV: Trialkylimidazolium and alkoxy-carbonyl-imidazolium cations; alkylsulfonate and alkylsulfate anions*, [\*Journal of Physical Chemistry B\*, 112, 5039 \(2008\)](#).

- *The distillation and volatility of ionic liquids*, [Nature, 439, 831 \(2006\)](#).