

# Soft.Matter@PT 2015

## Karina Shimizu

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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 \(2014\)](#).
- *On the Formation of a Third, Nanostructured Domain in Ionic Liquids*, [\*Journal of Physical Chemistry B\*, 117, 10826 \(2013\)](#).
- *2D or not 2D: Structural and charge ordering at the solid-liquid interface of the 1-(2-hydroxyethyl)-3-methylimidazolium tetrafluoroborate ionic liquid*, [\*Faraday Discussions\*, 154, 155 \(2012\)](#).
- *High-Accuracy Vapor Pressure Data of the Extended [C(n)C(1)im][Ntf(2)] Ionic Liquid Series: Trend Changes and Structural Shifts*, [\*Journal of Physical Chemistry B\*, 115, 10919 \(2012\)](#).

- *Molecular force field for ionic liquids IV: Trialkylimidazolium and alkoxy-carbonyl-imidazolium cations; alkylsulfonate and alkylsulfate anions*, [Journal of Physical Chemistry B, 112, 5039 \(2008\)](#).