

Multiscale Modeling and Molecular Interfaces

Research group **M3I** - Multiscale Modeling and Molecular Interfaces

Leader: [Florent Goujon](https://iccf.uca.fr/annuaire/m-florent-goujon)(<https://iccf.uca.fr/annuaire/m-florent-goujon>)

Research Topics

The main expertise of the group is modelling interfacial systems: water-acid gas, water-oil, polymers at interfaces and, recently, functionalized surfaces. The methods developed make use of descriptions at both the molecular and mesoscopic levels, and allow the study of phenomena over the appropriate time and space scales. The group has developed original methods to describe polyelectrolytes at interfaces and to calculate the interfacial tension of binary systems at high pressure. Dissipative particle dynamics (DPD) is used to model friction of polymer brushes.

Staff

PERMANENT MEMBERS

[Christine BONAL](https://iccf.uca.fr/annuaire/christine-bonal) (<https://iccf.uca.fr/annuaire/christine-bonal>)

[M. Alain DEQUIDT](https://iccf.uca.fr/annuaire/m-alain-dequidt) (<https://iccf.uca.fr/annuaire/m-alain-dequidt>)

[M. Julien DEVEMY](https://iccf.uca.fr/annuaire/m-julien-devemy) (<https://iccf.uca.fr/annuaire/m-julien-devemy>)

[M. Florent GOUJON](https://iccf.uca.fr/annuaire/m-florent-goujon) (<https://iccf.uca.fr/annuaire/m-florent-goujon>)

[M. Patrice MALFREYT](https://iccf.uca.fr/annuaire/m-patrice-malfreyt) (<https://iccf.uca.fr/annuaire/m-patrice-malfreyt>)

NON PERMANENT MEMBERS

Name	Status	Funds	Dates
Ana Catarina Mendonca*	PhD	Marie Curie	Oct. 2009 - Feb. 2013
Gaëlle Filippini	PhD	MESR	oct. 2010 - jul. 2013
Jean-Claude Neyt	PhD	Michelin	Oct. 2010 - Nov. 2013

Gaëtan Maurel	PhD	Michelin	Oct. 2011 - Nov. 2014
Thibaud Dreher	PhD	Région Auvergne, CEA	Sept. 2015 - ...
Kévin Kempfer	PhD	Michelin	April 2016 - ...
Ludovic Garnier	PhD	MESR	Oct. 2016 - ...
Yurig Fomin*	Post-doct	Marie Curie	June 2011 - Feb. 2012
José Solano	Post-doct	Région Auvergne	Nov. 2013 - Nov. 2014
Makha Ndao	Post-doct	Région Auvergne	Nov. 2014 - Nov. 2015
José Solano	Researcher	Région	Nov. 2014 - Nov. 2015

*50% IL group (team TIM)

<https://iccf.uca.fr/english-version/research/thermodynamics/molecular-architectures-at-interfaces>(<https://iccf.uca.fr/english-version/research/thermodynamics/molecular-architectures-at-interfaces>)