

## Camille GUIOT

Phone: +33(0)7.70.02.55.24

guiotcamille@yahoo.fr

French 28 year old (26 may 1983)

[http://perso.apec.fr/camille\\_guiot](http://perso.apec.fr/camille_guiot)

## PHD - RESEARCH ENGINEER IN CHEMISTRY

Nanomaterials



### Skills

#### Domains

Colloïds, suspensions, liquid crystals, functional coatings, sol-gel, hybrid materials.

#### Languages and Computing

Fluent english (915 TOIEC 2004) – Spanish good working knowledge.

Scientific softwares – Programming (C langage, python).

#### Techniques

Dynamic light scattering (DLS), zetametry, small-angle X-ray scattering (SAXS), atomic force microscopy (AFM), spectroscopies ( $\mu$ -Raman, Infra-red, UV).

### Education

Feb 2009

**PhD** in Materials Chemistry – University of Montpellier II.

Feb 2006

**Research Master's degree** in « Separation chemistry, Materials and Processes » - University of Montpellier II.

Sept 2005

**Engineer in Chemistry (MSc-level degree)** ENSCP (Chimie ParisTech).

June 2000

**Baccalauréat Scientifique**, french secondary school degree, with **first class honours**.

### Work Experience

2010 - 2012

**European Joint Action NANOGENOTOX** (6 M€, 11 countries) – **Scientific and Technical mission** - LIONS, CEA Saclay.

*Physico-chemical properties of nanoparticles ( $\text{SiO}_2$  -  $\text{TiO}_2$ ) and their suspensions.*

- Expertise in SAXS, DLS, zetametry, AFM.
- Management and writing of technical reports, deliverables and procedures in english.
- Development of dispersion protocols for toxicity studies in biological media.

2006 - 2009

**3-year research project** - LCA, CEA Marcoule – collaboration with ICSM.

*Synthesis of mesostructured zirconia templated by mineral liquid crystals ( $\text{V}_2\text{O}_5$ ).*

- Stabilization of colloïdal suspensions by charged polymer adsorption.
- Sol-gel, hydrothermal synthesis, thin films.
- DLS, zetametry, spectroscopies, X-ray diffraction and reflectivity.
- Supervision and training of 2 master level students.

2005

**6-month research internship** – Lund University, Sweden.

*Micellar and liquid crystal phases in surfactant/phospholipids/water system.*

- Phase diagram elaboration.
- Polarized optical microscopy, SAXS,  $^2\text{H}$  NMR quadrupolar splitting, self-diffusion NMR.

2004

**5-month research engineer internship** - Saint Gobain Recherche / Condensed Matter Physics, Ecole Polytechnique, France.

*Hydrophobic coatings for water-repellent windshields.*

- Silane precursor synthesis.
- Grafting onto glass, physical analysis of as-coated surfaces.

### Hobbies and Interests

Sports

Swimming (7 years of competition) – Modern'jazz dance - Volley-ball.

Associations

Member of the student board of ENSCP – In charge of communication in the Gala team.