

Guillaume Chevrot

14 rue du Docteur Charcot 91290 Arpajon (FRANCE)
 (+33)1.78.65.52.43
 (+33)6.25.42.76.56 (cell)
 guillaume.chevrot@gmail.com
<http://gchevrot.github.io/home/>

Computational chemist**Professional background**

- 01/2011 – Present** Postdoctoral Research Associate. CBM-CNRS / SOLEIL synchrotron. Paris Area, France.
 • Extraction of internal motions from molecular dynamics simulations.
 • Impact of anisotropic atomic motions on incoherent neutron scattering intensities.
 • New approach to molecular diffusion tensors.
 • Scripting for simulations analysis.
 • Performance tests (serial and parallel) on HDF5 files (in progress).
- 02/2008 – 08/2010** Postdoctoral Research Associate. CEA-DAM Ile de France. Paris Area, France.
 • Molecular dynamics simulations of carbon nanoparticles under detonation conditions.
 • Modeling the kinetics of carbon nanoparticles coalescence.
 • Development of programs to analyze molecular dynamics simulations.
- 10/2004 – 01/2008** Ph.D. in computational chemistry. University of Strasbourg, France.
 Modeling and Molecular Simulations laboratory. Director: Pr. Georges Wipff.
 • Molecular dynamics simulations of dicarbollides anions, BTP and 18C6 in pure liquids and at liquid-liquid interfaces. Study at classical interfaces and at [BMI][PF₆] ionic liquids interfaces.
- 01/2004 – 06/2004** Intern (M2 - computational chemistry). University of Strasbourg, France.
 Modeling and Molecular Simulations laboratory. Director: Pr. Georges Wipff.
 • Surfactant behavior of dicarbollides anions at interfaces: a molecular dynamics study.
- 04/2003 – 08/2003** Intern (M1 - chemistry). CEA Valduc. Dijon Area, France.
 Director: Jean-Charles Hubinois.
 • Gas analysis by mass spectrometry and gas chromatography.
- 06/2002 – 09/2002** Laboratory assistant. Dijon Area, France.
 Sanofi pharmaceutical group.
 • Water, drug and raw materials analysis.

Educational background

- 2004 – 2008** Ph.D. in computational chemistry.
 University of Strasbourg, France.
- 2003 – 2004** Master degree (M2) in computational chemistry.
 University of Strasbourg, France.
- 2002 – 2003** Master degree (M1) in chemistry.
 University of Dijon, France.
- 07/2009** Methods in molecular simulation summer school 2009 (5 - 14th july).
 University of Sheffield, United Kingdom.

Skills

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| <ul style="list-style-type: none"> - Extensive experience in molecular simulations. - Programming experience in Python, C, Shell scripting, Mathematica, Django, HTML, CSS, Git. - Experience working with large data sets (HDF5, NetCDF). - HPC experience. - English : full professional proficiency
TOEIC test (11-28-06) : 885/990. | <ul style="list-style-type: none"> - 10 articles published in international peer-reviewed journals. - Oral and poster communications in international and national congress. - Contribution to the european project « europart ». - Technological monitoring. - Preparing and delivering reports, presentations. |
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