Guillaume Chevrot Computational scientist - Data analyst

contact	experience		
gchevrot@protonmail.com @gchevrot	2015-Now	Complex Systems Institute - University of Orléans Research associate - computational/data science Collaborating with several teams to manage and analyze data. Achievements - goals: • Creation of a database from a corpus and statistical analysis • Statistical analysis of neural data • Reproducible research: combining ActivePapers and Exec&Share • Classification of intrinsically disordered proteins • Deployment of Mathematica applications • Webmaster	
french mother tongue english fluent german & danish notions skills data analysis programming simulation	2014–2015	MEMPHYS - University of Southern Denmark Research associate – computational biophysics Multi-scale simulations to understand the behavior of proteins. Achievements – research: • Enhanced stability of proteins in 3rd generation lonic liquids • Behavior of the motor-protein Kinesin-5 with an inhibitor • Coarse-grained and atomistic simulations of lipid droplet genesis • 2 publications	
modeling technology monitoring project management oral presentation research report informatics Python, C, R Mathematica	modeling 2011–2014 Ogy monitoring of management all presentation research report informatics Python, C, R CNRS / SOLEIL synchrotron Research associate – computational biophys Simulations and dynamics of proteins. Achievements – research: • Extraction of internal motions from mo • Impact of anisotropic atomic motions of intensities • Author of one of the first ActivePapers		
MongoDB Shell scripting Git Django CSS & HTML Drupal	2008–2010	CEA Bruyères-le-Châtel - Paris area, France Research associate – computational chemistry Thermodynamics and kinetics properties of carbon nanoparticles under extreme conditions. Achievements: • Model used in another simulation program	

education

HDF5

HPC

MEX.

Unix, Linux, OS X

2004–2008	Ph.D. in computational chemistry Extraction of ions at the liquid-liquid interface – 4 pu	University of Strasbourg blications.
2003–2004	Master in computational chemistry	University of Strasbourg
2002–2003	Master in chemistry	University of Dijon
07/2009	Summer school - methods in molecular simulation	University of Sheffield

• Programs to analyze the data

• 3 publications

publications

article in peer-reviewed journal

Protein remains stable at unusually high temperatures when solvated in aqueous mixtures of amino acid based ionic liquids

Guillaume Chevrot, Eudes Eterno Fileti, Vitaly V. Chaban

Journal of Molecular Modeling 22, 258 (2016)

Enhanced stability of the model mini-protein in amino acid ionic liquids and their aqueous solutions

Guillaume Chevrot, Eudes Eterno Fileti, Vitaly V. Chaban

Journal of Computational Chemistry 36, 2044 (2015)

Model-free simulation approach to molecular diffusion tensors

Guillaume Chevrot, Konrad Hinsen, Gerald R. Kneller

The Journal of Chemical Physics 139, 154110 (2013)

Molecular dynamics and kinetic study of carbon coagulation in the release wave of detonation products

Guillaume Chevrot, Arnaud Sollier, Nicolas Pineau

The Journal of Chemical Physics 136, 084506 (2012)

Impact of anisotropic atomic motions in proteins on powder-averaged incoherent neutron scattering intensities

Gerald R. Kneller, Guillaume Chevrot

The Journal of Chemical Physics 137, 225101 (2012)

Least constraint approach to the extraction of internal motions from molecular dynamics trajectories of flexible macromolecules

Guillaume Chevrot, Paolo Calligari, Konrad Hinsen, Gerald R. Kneller

The Journal of Chemical Physics 135, 084110 (2011)

Molecular dynamics simulations of nanocarbons at high pressure and temperature

G. Chevrot, E. Bourasseau, N. Pineau, J.-B. Maillet

Carbon 47, 3392 (2009)

Formation of multiwall fullerenes from nanodiamonds studied by atomistic simulations

Jan H. Los, Nicolas Pineau, Guillaume Chevrot, Gérard Vignoles, Jean-Marc Leyssale *Phys. Rev. B* 80, 155420 (2009)

Molecular dynamics study of dicarbollide anions in nitrobenzene solution and at its aqueous interface. Synergistic effect in the Eu(iii) assisted extraction

G. Chevrot, R. Schurhammer, G. Wipff

Phys. Chem. Chem. Phys. 9, 5928 (2007)

Synergistic effect of dicarbollide anions in liquid-liquid extraction: a molecular dynamics study at the octanol-water interface

G. Chevrot, R. Schurhammer, G. Wipff

Phys. Chem. Chem. Phys. 9, 1991 (2007)

Molecular dynamics simulations of the aqueous interface with the [BMI][PF6] ionic liquid: comparison of different solvent models

G. Chevrot, R. Schurhammer, G. Wipff

Phys. Chem. Chem. Phys. 8, 4166 (2006)

Surfactant Behavior of "Ellipsoidal" Dicarbollide Anions: A Molecular Dynamics Study

G. Chevrot, R. Schurhammer, G. Wipff*

The Journal of Physical Chemistry B 110, 9488 (2006)

interests

MOOC, technology, philosophy, cycling, running