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	2011–2014	 CNRS / SOLEIL synchrotron Research associate – computational biophysics Simulations and dynamics of proteins. Achievements – research: Extraction of internal motions from molecular dynamics simulations Impact of anisotropic atomic motions on incoherent neutron scattering intensities Author of one of the first ActivePapers 3 publications 	
MongoDB Shell scripting Git Django CSS & HTML Drupal HDF5 HPC Unix, Linux, OS X	2008–2010	CEA Research associate – computational chemistry Thermodynamics and kinetics properties of carbon nanoparticles under extreme conditions. Achievements: • Model used in another simulation program • Programs to analyze the data • 3 publications	
ri6.	education		
	2004–2008	Ph.D. in computational chemistry Extraction of ions at the liquid-liquid interface – 4 publications.	University of Strasbourg Dications.
	2003–2004	Master in computational chemistry	University of Strasbourg
	2002–2003	Master in chemistry	University of Dijon

Summer school - methods in molecular simulation

University of Sheffield

07/2009

publications

article in peer-reviewed journal

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