# Guillaume Chevrot Python developer & trainer

contact	experience			
NUMGRADE Guillaume Chevrot 4 passage de la Râpe	2018–	Entrepreneur - NUMGRADE Training and development in Python	Orléans, France	
Immeuble Val de Loire CS31635 45006 ORLÉANS CEDEX	2016–2018	Freelance  Python trainer / developer  • Python training courses for several companies (TOTAL, Synchrotron		
France +33 (0)2 38 21 30 57		SOLEIL, CEA, SNCF, 01-Technologies): Introduction entific Python, Python for data analysis,  • Automating administrative tasks (Scoop communication)	-	
. ,		development in Python/Django	riidatiorij, backeria	
gchevrot@numgrade.com @gchevrot	2015–2018	Complex Systems Institute - University of Orléans Research associate - computational/data science	Orléans, France	
languages french mother tongue	Collaborate with several teams to manage data and improve their analysis.  Achievements – goals:			
english fluent		<ul><li>WebNmoldyn: interactive notebooks in the cloud.</li><li>Creation of a database from a corpus and statistic</li></ul>	al analysis	
german & danish notions		<ul> <li>Statistical analysis of neural data</li> <li>Classification of intrinsically disordered proteins</li> </ul>	•	
<b>skills</b> data analysis		<ul><li>Deployment of Mathematica applications</li><li>Webmaster</li></ul>		
programming simulation	2014–2015	MEMPHYS - University of Southern Denmark Research associate – computational biophysics	Odense, Denmark	
modeling oral presentation		Multi-scale simulations to understand the behavior of proteins - 3 publications.		
research report		Python programming for data analysis.		
<b>informatics</b> Python, C, R Mathematica MongoDB	2011–2014	CNRS / SOLEIL synchrotron  Research associate – computational biophysics  Simulations and dynamics of proteins - 3 publications.  Python programming for data analysis.	Paris-Saclay, France	
Shell scripting Git	2008–2010	Research associate - computational chemistry	·	
Django CSS & HTML Drupal HDF5		Thermodynamics and kinetics properties of carbon nanoparticles under extreme conditions - 3 publications. C programming for modeling and data analysis.		
HPC computing Unix, Linux, OS X	education			

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

## interests

ATEX

## **publications**

#### article in peer-reviewed journal

#### The role of caveolin-1 in lipid droplets and their biogenesis

Weria Pezeshkian, Guillaume Chevrot, Himanshu Khandelia

Chemistry and Physics of Lipids 211 (2018) pp. 93-99

## 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)