

Germain Vallverdu

Associate Professor -- PhD in Chemical Physics



10 août 1983, France
Married, 2 children

Contact

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IPREM
Technopôle Hélioparc
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Theoretical Chemistry

Computational strategy
Development
Surfaces, interfaces
VASP, CRYSTAL (solid)
Gaussian (molecule)
DL-POLY, AMBER (dynamic)




Programmation

Fortran, C
Python
L^AT_EX, HTML/CSS

Languages

French
English (Professional)

On the web

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Abstract

Assistant professor at the Université de Pau et des Pays de l'Adour, I am a theoretical chemist at IPREM institute (Institute for Analytical sciences and chemical physics applied to environment and materials). My research activities concern the development of new methods and computational strategies at different time or space scales, applied to the investigations of complex systems. I teach mainly chemical-physics subjects at the UFR sciences et techniques de Pau.

Experience Professionnelle

- since 2010 **Université de Pau et des Pays de l'Adour** Pau, France
Associate professor
Theoretical chemistry and computational approaches. Surfaces, interfaces and reactivity.
- 2009–2010 **CEA - DAM** Bruyères le châtel, France
Postdoctoral position
Development and implementation of mesoscopic models for reactive shock waves propagation in heterogeneous systems.
- 2006–2009 **Université Paris-Sud 11** Orsay, France
PhD Student
Theoretical study of photophysical processes in fluorescent proteins.

Formation

- 2006-2009 **PhD in chemistry** speciality theoretical chemistry Université Paris-Sud 11
Mention très honorable
- 2004-2006 **Master degree of chemistry** Université Paris-Sud 11
speciality molecular chemical-physics
Mention TB
- 2003-2004 **Bachelor Degree of chemical-physics** Université Paris-Sud 11
Mention TB
- 2003-2006 **Magistère de Physico-Chimie Moléculaire** Université Paris-Sud 11 – ENS Cachan
- 2001-2003 **Undergraduate** physics and chemistry Lycée François Arago, Perpignan

Main publications

- Vallverdu, G.; Minvielle, M.; Andreu, N.; Gonbeau, D.; Baraille, I. *Surface Science* **2016**, 649, 46–55.
- Guille, E.; Vallverdu, G.; Tison, Y.; Bégué, D.; Baraille, I. *The Journal of Physical Chemistry C* **2015**, 119, 23379–23387.
- Guille, E.; Vallverdu, G.; Baraille, I. *The Journal of Chemical Physics* **2014**, 141, 244703.
- Martin, L.; Vallverdu, G.; Martinez, H.; Cras, F. L.; Baraille, I. *Journal of Materials Chemistry* **2012**, 22, 22063–22071.
- Maillet, J. B.; Bourasseau, E.; Desbiens, N.; Vallverdu, G.; Stoltz, G. *Europhysics Letters* **2011**, 96, 68007.
- Vallverdu, G.; Demachy, I.; Mérola, F.; Pasquier, H.; Ridard, J.; Lévy, B. *Proteins: Structure, Function, and Bioinformatics* **2010**, 78, 1040–1054.