

CURRICULUM VITAE ET STUDIORUM

Alessandra Villa Dr.

Education

- 1996-1999 PhD in Physical-Chemistry in the group of Prof. Pitea at the Faculty of Natural Sciences, Physics and Mathematics, University of Milano, Italy. Thesis title: "Study of stereo-electronic properties of organometallic lanthanide complexes by means of molecular modelling tools"
- 1998 Master in 'Management of technology' (7 months). Faculty of Natural Sciences, Physics and Mathematics, University of Milano, Italy.
- 1989-1995 Degree in Chemistry (5 year program) at the University of Milano, Italy.

Work experience since graduating

- 30 June 2004 - Now
Research-associate/Post-doc in the group of Prof. Gerhard Stock, Theoretical Chemistry Group, J.W: Goethe University, Frankfurt am Main, Germany.
- 1 January 2002-30 June 2004
Post-doc in the group of Prof. Alan E. Mark, Biophysical-chemistry department, University of Groningen, The Netherlands.
- 1 January 2000-31 December 2001
Marie Curie Fellowship in the group of Prof. Alan E. Mark, Biophysical-chemistry department, University of Groningen, The Netherlands.
- 1 November 1999-31 December 1999
Short term contract at the pharmaceutical company Bracco S.p.A., Milano, Italy.
- 1 November 1996-1 November 1999
PhD at the Department of Chemical-Physics, Faculty of Natural Sciences, Physics and Mathematics, University of Milano, Italy (3-year contract, full time).
- 1 November 1995-31 October 1996
Grant paid by pharmaceutical company Bracco S.p.A., Milano, Italy.

Didactic activities

- 1996-99 In each of these three academic years I gave lectures (12 h practical + 3 h theoretical per year) in the 'Computational Chemistry' course for 3rd year undergraduate chemistry students, University of Milano, Italy.
- 2002-03 Co-ordination of the practical part of the 'Kinetics and thermodynamics' course for 1st year undergraduate chemistry students, University of Groningen, The Netherlands.
- 2004 Lectures on 'Molecular Modelling' in the 'Biophysical Chemistry' course for the 3rd year undergraduate biology students, University of Groningen, The Netherlands.
- 2005 'Molecular dynamics simulation' course for the 4th year undergraduate chemistry students, J.W. Goethe University, Frankfurt am Main, Germany.

Scientific lectures

I gave a lecture at the following international conferences:

- 1999 WATOC 99 - Fifth World Congress of Theoretically Oriented Chemists, London, UK, 1-6 August.
- 2000 Proteins: From Structures to Properties with Biocomputing Approaches, Workshop/Mini-Conference Biocomputing, Oulu, Finland, 4-6 June.
- 2001 5th Course: International school of liquid crystal: Modelling of complex systems., Erice, Italy, 22-26 October.
- 2002 MGMS Annual International Meeting 2002, Wills Hall, Bristol, UK, 3-5 April.

I gave a lecture at the following national conference:

- 1999 IV Convegno "Sistemi complessi: struttura, proprietà, reattività e dinamica", Varenna, Lecco, Italy, 16-18 June.

Invited lectures:

- 2002 Seminar in the group of Prof. W.F. van Gunsteren, ETH-Zurich, Switzerland, 9 January
- 2003 Seminar with the title: "Free-energy calculations in biomolecular systems", at the Faculty of Natural Science, Physics and Mathematics, University of Milano-Bicocca, Italy, 10 July
- 2004 -Seminar in the group of Prof. G. Stock, J.W. Goethe University, Frankfurt am Main, Germany, 24 February
- 2005 -Seminar: "*Biomolecular interactions: Applications and limits of molecular dynamics simulations*" at the Institute of Physical and Theoretical Chemistry, J.W. Goethe University, Frankfurt am Main, Germany, 11 January.
-Seminar: "Seminar: "Molecular dynamics simulations: Biomolecular interactions." at the faculty of Physical Sciences, UNAM, Cuernavaca, Mexico, 21 January.

National and international schools

- 1996 - "QSAR in ecotoxicology", (18-19 November) lectures organised by Società Italiana di Ecologia e dalla Società Italiana di Chemiometria, Verbania-Pallanza, Italy.
- 1997 - School of chemical informatics and computational chemistry. (18-30 August) University of Perugia, Italy.
- Summer school in Quantum Chemistry, (1-9 September) Curso de Verano, Laredo, Universidad de Cantabria, Spain. (participation grant)
- 1998 27th Course: International school of Crystallography: Implication of molecular and material structure for new technologies, (28 May-7 June). A NATO Advanced Study Institute and an EuroConference, Erice, Italy. (participation grant)
Summer School in computational quantum chemistry CSCS/SCSC, (27-31 July) Lugano, Switzerland

Other:

Foreign Languages:

English good
Dutch good
Spanish intermediate
German intermediate

1993-1994 Erasmus fellowship at 'Universidad de Valencia' (Spain, 6 months).
1997 Pre-Sessional English Language course, University of Sussex, Brighton,
 England (1 month).
1999 Cambridge Exam - First Certificate in English.
2000- 2002 Courses of Dutch for foreigners at the Talencentrum, University of
 Groningen (level 1-4).

Referee assistant for journals

Biophysical Chemistry
Journal of Computer-Aided Molecular Design
Journal of Molecular Recognition
Physical Chemistry

Conference organisation

May-June 1999 member of the organisation of the national meeting: IV Convegno
 "Sistemi complessi: struttura, proprietà, reattività e dinamica",
 Varenna, Lecco, Italy. (16-18 June 1999)

Scholarships and prizes

1 January 2000 Marie Curie Fellowship (2 years) in the biophysical-chemistry
 department at the University of Groningen, The Netherlands.
 Tutor Prof. A.E. Mark. Project title: "Polarisability in biomolecular
 force-fields".

Course

January 2001 'Dynamic Presentation'. (15-16 January) Course organised by
 Ludens (Zurich-Swiss) and GBB (Groningen-The Netherlands) in
 the University of Groningen, The Netherlands. Docent: J. van
 Gunsteren and W. Visser.