

CURRICULUM VITAE

Name : Giulia Morra
Date of Birth: August 8, 1973
Place of Birth: Milano, Italy
Address: Istituto di Chimica del Riconoscimento Molecolare, CNR
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Research activity

Since July 2011 Research scientist at the CNR "Istituto di Chimica del Riconoscimento Molecolare in Milano,
Oct 2006- Jun 2011 Research contract (post-doc fellowship) at CNR; Istituto di Chimica del Riconoscimento Molecolare, Computational biology group (Group leader: G. Colombo) *Analysis of sequence-structure relationship in proteins (protein folding), conformational dynamics of chaperone proteins (Hsp90), protein allostery, drug design, computational methods for vaccine development*
Feb.-Sept 2006 Maternity leave
Sept 2004- Jan 2006 Research contract at CNR; Istituto di Tecnologie Biomediche, Bioinformatics group (Group leader: L. Milanesi) *Molecular Dynamics on distributed computational platforms*
Feb 2000- Jul 2004 Research scientist at Free University Berlin, Chemistry department, Institute of Crystallography, Molecular Modeling group (group leader: Prof. Ernst-Walter. Knapp). *Molecular dynamics and electrostatics of proteins.*
Jun- Nov 2002 Maternity leave
Feb.-Jul. 1999 Short-term fellowship at SISSA. I.S.A.S. (International School for Advanced Studies) Trieste, statistical mechanics group (group leader: Prof. Amos Maritan).
Feb.-Jul 1998 Undergraduate internship at SISSA (International School for Advanced Studies) Trieste, statistical mechanics group (group leader: Prof. Amos Maritan)

Education

2000-2004 PhD at **Free University Berlin, Chemistry department**, (Thesis defense 11/11/2005). Mark: Magna cum laude. Thesis title: *Role of electrostatics explored with molecular dynamics simulations for protein stability and folding*. Supervisor: Prof. E.W. Knapp.
1992-1998 Undergraduate studies in Physics, Università degli Studi di Milano. Thesis title: *Modelli di meccanica statistica per il ripiegamento delle proteine*. Supervisors: Prof. A. Maritan, Prof. G. Baldini. Marks: 110/110 cum laude

Languages

Italian (mother tongue), English (fluent), German (fluent), French (basic)

Teaching

- 2001-2003 Maths 2 exercises for chemistry and biochemistry students at FU Berlin (in german)
- 2001- 2004 Macromolecular Modeling lab for undergraduate students at FU Berlin (in english)
- 2005 Lecture at the Università degli Studi di Milano, "introduzione alla dinamica molecolare" for undergraduate biochemistry students
- 2007 Lecture on Molecular dynamics of proteins at the Politecnico di Milano for graduate students (Biomeccanica Molecolare e Cellulare. PhD in Bioengineering)
- 2009 Supervision of diploma thesis of Ms. Chiara Baragli, Chemistry department

- 2010 Lecture on Dynamics and Function of proteins at the Doctoral school of Politecnico di Milano for graduate students (PhD in Chemical Engineering and Bioengineering)

Fellowships

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| 1998 | Undergraduate fellowship at I.S.A.S. (International School for Advanced Studies) Trieste, Italy |
| 1999 | Pre-doc fellowship at I.S.A.S. (International School for Advanced Studies) Trieste, Italy |
| 1999 | Eligibility for a Doctoral fellowship at the Università di Padova, Dottorato di Ricerca in Fisica, XIV ciclo. |

Grants and awards

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| 2008 | “UNESCO- L’Oréal- For women in science” award |
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Invited talks and presentations

- Dec 1999, Freie Universitaet Berlin, *Protein design methods on lattice models.*
- Nov 2003, University Zurich, *Unfolding of the CspB protein studied by biased molecular dynamics.*
- Nov 2003, Konrad Zuse Zentrum Berlin, *Studying protein unfolding by molecular dynamics.*
- Oct 2004, Berlin Symposium Formation and Stability of beta-sheets (DFG Forschergruppe 475), *The role of ions on structure and stability of a synthetic gramicidin channel. A molecular dynamic study.*
- Mar 2007, ICRM, CNR , *Stabilizzazione e adattamento delle proteine alla struttura nativa*
- Sep 2010 San Vito, Symposium of the Italian Chemical Society
- Jan 2011 *San Raffaele* DIBIT Milano, Dynamics and allosteric inhibition of Hsp90
- Aug 2011 *Mount Sinai School of Medicine*, New York, Conformational dynamics and allosteric inhibition of Hsp90