

Luca Maragliano

Curriculum Vitae

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Education

- 2004 Ph.D., Physics, Università degli Studi di Modena e Reggio Emilia (Italy).
Thesis: Methods and Applications of Molecular Dynamics Simulations to Biomolecules.
Advisors: Prof. Mauro Ferrario, Prof. Giovanni Ciccotti
- 2000 Master (Italian *Laurea*), Physics, Università degli Studi di Roma La Sapienza (Italy).
Thesis: Stability of Thermophilic Proteins by Molecular Dynamics.
Advisor: Prof. Giovanni Ciccotti

Employment

- 2008-pres. Post-Doc researcher, Department of Biochemistry and Molecular Biology, University of Chicago
- 2005-2007 Post-Doc researcher, Courant Institute of Mathematical Sciences, New York University
- 2004 Researcher, CECAM-ENS, Lyon, France

Teaching

- 2002, 2003 Statistical Mechanics. T.A., Department of Physics, Università degli Studi di Modena e Reggio Emilia.

Publications

- Maragliano, L., G. Cottone, G. Ciccotti and E. Vanden-Eijnden
Mapping the network of pathways of CO diffusion in myoglobin
J. Am. Chem. Soc., 2010, 132, 1010-1017
- Maragliano, L., E. Vanden-Eijnden and B. Roux
Free energy and kinetics of conformational transitions from Voronoi tessellated milestoning with restraining potentials
J. Chem. Theory Comp., 2009, 5, 2589-2594
- Maragliano, L., and E. Vanden-Eijnden
Single-sweep methods for free energy calculations
J. Chem. Phys., 2008, 128, 184110

- Maragliano, L. and E. Vanden-Eijnden
On-the-fly string method for minimum free energy paths calculation
Chem. Phys. Lett., 2007, 446, 182-190
- Maragliano, L. and E. Vanden-Eijnden
A temperature accelerated method for sampling free energy and determining reaction pathways in rare events simulations
Chem. Phys. Lett., 2006, 426, 168-175
- Maragliano, L., A. Fischer, E. Vanden-Eijnden, and G. Ciccotti
String method in collective variables: minimum free energy paths and isocommittor surfaces
J. Chem. Phys., 2006, 125, 024106
- Maragliano, L., M. Falconi, A. Sergi, P. Cioni, S. Castelli, A. Lania, G. Strambini, M. Ferrario, and A. Desideri
Experimental and simulative dissociation of dimeric Cu,Zn Superoxide Dismutase doubly mutated at the intersubunit surface
Biophys. J., 2005, 88, 2875-2882
- Maragliano, L., M. Ferrario, and G. Ciccotti
Effective binding force calculation in dimeric proteins
Mol. Simul., 2004, 30, 807-816
- Maragliano, L., G. Cottone, L. Cordone, and G. Ciccotti
Atomic mean square displacements in proteins by Molecular Dynamics: a case for analysis of variance
Biophys. J., 2004, 86, 2765-2772