

## Mini-Bio

I am a research scientist at the [Institute of Biophysics](#) of the Italian [National Research Council](#) (CNR). My main interest is the application of computer-based modeling techniques, such as molecular dynamics and statistical learning, to the modeling of protein-protein and protein-drug interactions (see e.g. publications [here](#) and videos [here](#) and [here](#)). My background includes statistical learning, software and hardware engineering, and high-performance biocomputing architectures.

Between 2008 and 2011 I have been a post-doctoral research assistant in the [Computational Biophysics Group](#) at the University Pompeu Fabra of Barcelona (GRIB-IMIM-UPF), where I modeled protein-protein and protein-drug interactions through large-scale all-atom simulations, enabled by accelerated (GPUs) and distributed computing architectures (BOINC and [GPUGRID.net](#)). In 2009 I was awarded a 3-year *Beatriu de Pinós* grant from the Generalitat de Catalunya for the study of unstructured proteins' interactions. Before 2008 I was with the [Laboratory for Biomedical Informatics](#) *Mario Stefanelli* of the University of Pavia, where I conducted research on data mining for telemedicine and adaptive human-computer interaction, including wearable sensors (e.g. [MyHeart](#)) and speech (e.g. [AdaRTE](#), [Homey](#)).

I have a degree in Physics (University of Pisa, 2001) and a PhD in Bioengineering and Bioinformatics (University of Pavia, 2005).