

Laura Bonati -Curriculum Vitae

Laura Bonati is an Associate Professor in Physical Chemistry working at the Department of Earth and Environmental Sciences of the University of Milano-Bicocca, Milan, Italy.

She received her MSc in Chemistry in 1986 at the University of Milano and obtained the PhD in Chemistry in 1990 at the same University, with a thesis in the field of theoretical and computational chemistry. She worked in the Department of Physical Chemistry and Electrochemistry of the University of Milano as a post-doctoral researcher from 1991 to 1992 and as an Assistant Professor from 1993 to 2000. In November 2000 she became Associate Professor in Physical Chemistry and she moved to the University of Milano-Bicocca.

She has taught in several courses for the Degree in Chemistry and in Environmental Sciences. She has been the tutor of many degree theses and the supervisor of seven PhD theses in Chemical Sciences and eight post-doctoral fellowships. She was a member of the Scientific Board of the PhD program in Chemistry of the University of Milano-Bicocca (2000-2017).

Her earliest research activities were focused on: computational studies of molecular properties and chemical reactivity by quantum chemistry methods, and on the relationships between molecular properties and biological activity.

The main research interests in the last eighteen years have regarded: studies on protein systems by bioinformatics techniques; computational studies on the dynamical properties of proteins; molecular modeling of ligand-protein and protein-protein interactions; molecular modeling of the mechanisms of biological activity of environmental contaminants. These research activities were performed by means of several interdisciplinary collaborations with Italian and foreign institutions.

She is co-author of 60 scientific publications and of many oral and poster presentations to scientific Conferences.

She participated to several Italian research projects funded by CNR (Italian national research council) and MIUR (Italian Ministry of Education, University and Research). In the last years she has been co-Principal Investigator of three Research Grants of NIH - National Institute of Environmental Health Sciences (2005–2011; 2012-2016; 2017-2020) aimed at studying the mechanism of biological action of environmental contaminants.