

EMANUELE MONZA

Chief Scientific Officer

SUMMARY

Computational chemist and physicist experienced with a broad range of molecular simulation techniques and their application to small molecules and proteins modeling and design.



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<https://goo.gl/Nhd0FE>

EDUCATION

2012-2016

Ph.D. Computational Physics

Universitat Politècnica de Catalunya, Spain

2009-2011

M.Sc. Chemistry

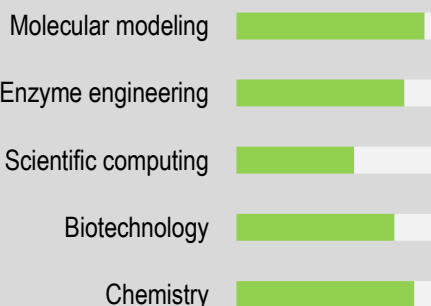
University of Milan, Italy

2006-2009

B.Sc. Chemistry

University of Milan, Italy

EXPERTISE



INTERESTS

Basketball • Craft beer • Biotech

EXPERIENCE

CO-FOUNDER & CSO - ZYMVOL

2017-

Scientific direction. High-level decision making on consulting and research strategies. Providing solutions to customers. Hiring scientific personnel.

PREDOCTORAL FELLOW – BARCELONA SUPERCOMPUTING CENTER

2012-2016

Developed novel computer-aided enzyme engineering strategies. Designed three improved oxidoreductases and a hybrid inorganic-enzyme material for enhanced catalysis in collaboration with experimental groups. Highlighted details of the mechanism of cooperative binding in hemoglobin. Supervised guests and young students. Published several manuscripts in high-impact journals and one book chapter

VISITOR – UNIVERSITY OF COPENHAGEN

2014-2014

Learned fragment molecular orbital and HF-3c methods.

INTERNSHIP- UNIVERSITY OF MILAN

2010-2011

Developed quantum chemical descriptors of electron delocalization and aromaticity in organic molecules. Published one manuscript, one book chapter and one conference paper.

INTERNSHIP- UNIVERSITY OF MILAN

2009-2009

Simulated the influence of organic molecules on protein folding, revealing the diverse mechanism of action of denaturants and osmoprotectants

SCIENTIST | ENTREPRENEUR